

Bibliography on Mobile Computing, Adaptive Systems and Distributed Computing

(mainly included in PhD Thesis « Adaptive Distribution Environment for Applications in a Mobile Context » [305] and in HDR Thesis « Complexity of Ambient Software: from Composition to Distributed, Contextual, Autonomous, Large-scale Execution » [307])

Frédéric Le Mouël

October 22, 2018

University of Lyon
INSA Lyon
INRIA CITI Laboratory / DynaMid Team
6 avenue des Arts / Bât. Claude Chappe
F-69621 Villeurbanne Cedex, FRANCE

Web: <http://perso.citi.insa-lyon.fr/flemouel/>

E-mail : frederic.le-mouel@insa-lyon.fr

Contents

1	My publications	3
1.1	Adaptative Systems	3
1.1.1	Aspect-oriented, Run-time adaptive and Dynamic Programming Languages for the Java Virtual Machine	3
1.1.2	Adaptative Components for Mobile and Distributed Computing	3
1.1.3	Services Composition and Integration in Distributed Computing	3
1.1.4	Services Composition and Integration in Pervasive Environments	3
1.1.5	Services Loading and Deployment for a Minimal and Extensible Middleware in Pervasive Environments	3
1.1.6	Service Deployment for Large-Scale Environments	3
1.1.7	Bridging IoT and Cloud Services: Smartphones as Mobile and Autonomic Service Gateways for Proximity Mobile Cloud Offloading	3
1.1.8	Service Optimization for Traffic Management in Vehicular Networks at Different Scales in Smart Cities	3
1.1.9	Social and Mobile Services Delivery and Deployment in Wireless and Mobile DTN	3
1.1.10	Measuring Urban Mobility for a Citizenship Service Cartography and Parking Assistance in Smart Cities	3

1.1.11	Distributed Stream Processing in the Edge: The Internet of Things / Vehicular Usecases	4
1.1.12	Distributed, Robust, Efficient Services for a Real-time Management of Urban Crisis in Smart Cities	4
1.1.13	Spontaneous Proximity Documents	4
1.1.14	Security, Trust, Privacy in Pervasive / IoT Environments	4
1.2	Projects	4
1.2.1	ALGOSECURE	4
1.2.2	European IST Project: AMIGO	4
1.2.3	French Ministerial RNTL Project: ARCAD	4
1.2.4	INRIA ARC: PRIAM	4
1.2.5	ARC 7 Region: Urban Citizenship Services	4
1.2.6	Explora'Pro Region Mobility Grant	4
1.2.7	Bilateral Contract: Valeo	4
1.3	Pedagogic Approaches for Learning	4
2	Mobile Computing	5
2.1	Hardware	5
2.1.1	Terminals: Laptop, Notebook, Handheld PC, Pocket PC, Palm	5
2.1.2	Networks: Satellite, GSM, WLAN, IrDA vs. High Speed LAN	5
2.1.3	Embedded Operating Systems	5
2.2	Mobility and Adaptation	5
2.2.1	Tranparency Approaches	5
2.2.2	Adaptation Needs	5
2.2.3	Reflexive Approaches	5
2.2.4	Ubiquitous approaches	5
2.3	Adaptation Strategies	5
2.3.1	Adaptive Data Management Systems	5
2.3.2	Adaptive Resources Management Systems	6
3	Conception paradigms	6
3.1	Object-oriented languages	6
3.2	(Object Component Interaction Aspect)-oriented design and model	6
3.2.1	Coordination and adaptation techniques	6
4	Miscellaneous	6
4.1	Dictionary	7
	References	8

1 My publications

1.1 Adaptative Systems

[173, 174, 175, 228, 301, 420]

1.1.1 Aspect-oriented, Run-time adaptive and Dynamic Programming Languages for the Java Virtual Machine

[102, 349, 408, 409, 410, 411, 412, 413, 414, 415]

1.1.2 Adaptative Components for Mobile and Distributed Computing

[13, 172, 304, 305, 308, 309, 310, 311, 318]

1.1.3 Services Composition and Integration in Distributed Computing

[226, 230, 231, 316, 420]

1.1.4 Services Composition and Integration in Pervasive Environments

[225, 227, 228, 229, 232, 233, 234, 235, 273, 312, 313, 314, 317, 343, 442]

1.1.5 Services Loading and Deployment for a Minimal and Extensible Middleware in Pervasive Environments

[47, 49, 50, 51, 52, 53, 113]

1.1.6 Service Deployment for Large-Scale Environments

[]

1.1.7 Bridging IoT and Cloud Services: Smartphones as Mobile and Autonomic Service Gateways for Proximity Mobile Cloud Offloading

[182, 183, 184, 185, 186]

1.1.8 Service Optimization for Traffic Management in Vehicular Networks at Different Scales in Smart Cities

[319, 320, 321, 322, 323, 324, 325]

1.1.9 Social and Mobile Services Delivery and Deployment in Wireless and Mobile DTN

[127, 512, 513, 514]

1.1.10 Measuring Urban Mobility for a Citizenship Service Cartography and Parking Assistance in Smart Cities

[333, 334, 335, 336, 337, 338, 339, 340, 421, 535]

1.1.11 Distributed Stream Processing in the Edge: The Internet of Things / Vehicular Usecases

[535]

1.1.12 Distributed, Robust, Efficient Services for a Real-time Management of Urban Crisis in Smart Cities

[315]

1.1.13 Spontaneous Proximity Documents

[48]

1.1.14 Security, Trust, Privacy in Pervasive / IoT Environments

[85, 331, 499]

1.2 Projects

1.2.1 ALGOSECURE

[499]

1.2.2 European IST Project: AMIGO

[7, 54, 55, 56, 273, 426]

1.2.3 French Ministerial RNTL Project: ARCAD

[327]

1.2.4 INRIA ARC: PRIAM

[85, 331]

1.2.5 ARC 7 Region: Urban Citizenship Services

[333, 334, 335, 336, 337, 338, 339]

1.2.6 Explora'Pro Region Mobility Grant

[335, 336, 343, 420, 421, 535]

1.2.7 Bilateral Contract: Valeo

[319, 320, 321, 322, 323, 324, 325]

1.3 Pedagogic Approaches for Learning

[306, 475]

2 Mobile Computing

[162, 214, 244, 446, 454, 456]

2.1 Hardware

2.1.1 Terminals: Laptop, Notebook, Handheld PC, Pocket PC, Palm

[103, 128, 143, 208, 216, 224, 236, 239, 395, 1, 402, 419, 505, 507]

2.1.2 Networks: Satellite, GSM, WLAN, IrDA vs. High Speed LAN

[2, 3, 4, 9, 19, 73, 130, 153, 154, 155, 179, 211, 237, 238, 240, 241, 242, 243, 245, 246, 247, 248, 249, 259, 367, 391, 418, 451, 453, 463, 467, 469, 494]

2.1.3 Embedded Operating Systems

[341, 355, 507]

2.2 Mobility and Adaptation

2.2.1 Transparency Approaches

[14, 15, 27, 29, 31, 32, 33, 34, 69, 70, 83, 92, 93, 114, 115, 142, 148, 158, 159, 181, 194, 207, 209, 210, 219, 221, 222, 250, 256, 260, 264, 279, 280, 284, 291, 300, 346, 352, 364, 369, 372, 373, 400, 401, 416, 424, 425, 443, 445, 447, 455, 458, 462, 466, 474, 490, 495, 498, 508, 509, 515, 529, 531, 532, 537]

2.2.2 Adaptation Needs

[16, 17, 26, 30, 68, 95, 97, 111, 136, 137, 138, 139, 145, 149, 157, 176, 177, 252, 253, 254, 255, 276, 354, 363, 374, 375, 377, 378, 399, 448, 516, 519, 520, 521, 544, 545, 546]

2.2.3 Reflexive Approaches

[10, 58, 71, 75, 79, 80, 84, 86, 99, 104, 105, 107, 120, 121, 122, 123, 124, 131, 150, 156, 178, 188, 189, 193, 257, 258, 281, 282, 285, 286, 288, 289, 290, 292, 326, 330, 347, 348, 351, 386, 387, 388, 389, 393, 433, 434, 435, 444, 465, 468, 476, 477, 492, 493, 502, 510, 523, 524, 525, 526, 527, 533, 538, 539]

2.2.4 Ubiquitous approaches

[450, 470, 501]

2.3 Adaptation Strategies

2.3.1 Adaptive Data Management Systems

Data Transformations [8, 30, 66, 112, 165, 167, 202, 251, 270, 271, 275, 276, 287, 332, 518, 528, 550]

Data Prefetching [67, 119, 125, 140, 217, 272, 296, 298, 300, 329, 344, 345, 364, 376, 392, 396, 449, 491]

Replication & Consistency [11, 22, 23, 24, 108, 109, 110, 135, 144, 151, 205, 212, 277, 278, 291, 297, 298, 299, 300, 364, 394, 403, 404, 427, 428, 429, 430, 431, 432, 437, 471, 472, 496, 497, 540]

2.3.2 Adaptive Resources Management Systems

Resources Naming, Discovery, Localization [5, 25, 35, 126, 133, 192, 203, 204, 266, 302, 356, 359, 361, 362, 380, 383, 440, 481, 483, 487, 504, 517, 522, 530]

Resources Monitoring [220, 398, 500]

Distributed Computing Models [21, 81, 117, 146, 163, 180, 191, 353, 357, 370, 473, 478, 484, 488]

Extended Client/Server Model [28, 34, 94, 218, 265, 268, 269, 283, 303, 358, 379, 382, 385, 482, 485, 486, 541, 542, 543]

Agent Model [6, 18, 36, 46, 57, 60, 61, 82, 164, 170, 195, 196, 197, 198, 199, 200, 262, 267, 294, 295, 360, 397, 423]

Tuple Space Model [88, 100, 101, 138, 139, 223, 263, 328, 365, 366, 405, 406, 438, 441, 460, 461, 487, 516]

Load Sharing and Load Balancing [12, 34, 41, 42, 43, 44, 45, 63, 64, 76, 77, 87, 89, 90, 91, 96, 106, 116, 118, 129, 132, 141, 147, 160, 161, 166, 168, 169, 190, 201, 206, 215, 261, 293, 342, 350, 368, 371, 381, 390, 436, 457, 459, 511, 536, 547, 548, 549]

3 Conception paradigms

3.1 Object-oriented languages

[62, 134, 187, 479, 480, 489]

3.2 (Object | Component | Interaction | Aspect)-oriented design and model

[38, 59, 72, 74, 78, 84, 86, 65, 107, 132, 330, 384, 417, 422, 439, 468, 506]

3.2.1 Coordination and adaptation techniques

[20, 37, 40, 98, 152, 213, 274, 407, 452, 464, 503, 534]

4 Miscellaneous

[39]

4.1 Dictionary

[171]

References

- [1] *PC Card Standard Release 8.0*. Personal Computer Memory Card International Association PCMCIA, 2001. <http://www.pc-card.com/bookstore.htm#PC>. 2.1.1
- [2] 10 Gigabit Ethernet Alliance. *Home Page*. <http://www.10gea.org>. 2.1.2
- [3] 3rd Generation Partnership Project. *Home Page*. <http://www.3gpp.org>. 2.1.2
- [4] 3rd Generation Partnership Project. *Universal Mobile Telecommunications System (UMTS); General UMTS Architecture*, April 2001. statut : « Publication (3GPP TS 23.101 version 4.0.0 Release 4) », http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=13453. 2.1.2
- [5] W. Adjie-Winoto, E. Schwartz, H. Balakrishnan, and J. Lilley. The design and implementation of an intentional naming system. In *Proceedings of the 17th ACM Symposium on Operating Systems Principles (SOSP'99)*, pages 186–201, Kiawah Island Resort, near Charleston, South Carolina, USA, December 1999. <http://wind.lcs.mit.edu/papers/insosp99.pdf>. 2.3.2
- [6] AgentBuilder. *Agent Construction Tools*. <http://www.agentbuilder.com/AgentTools/>. 2.3.2
- [7] M. Ahler, M. Anagnostou, I. Papaioannou, I. Roussaki, D. Tsesmetzis, L. Réveillère, W. Jouve, F. Le Mouël, N. Ibrahim, C. Cerisara, C. Magerkurth, T. Prante, B. Kladis, S. Tobies, B. Van Der Wal, J. M. Miranda, Á. Ramos, V. D. Juana, S. Kallio, J. Kela, and E. Vildjiounaite. Test Plans. Deliverable 6.1, European Amigo Project, April 2006. 1.2.2
- [8] T. Alanko, M. Kojo, M. Liljeberg, and K. Raatikainen. Mowgli: Improvements for Internet Applications Using Slow Wireless Links. In *Proceedings of the 8th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Helsinki, Finland, September 1997. 2.3.1
- [9] P. Ames and J. Gabor. The Evolution of Third-Generation Cellular Standards. *Intel Technology Journal*, Q2, May 2000. http://developer.intel.com/technology/itj/q22000/pdf/art_6.pdf. 2.1.2
- [10] A. Andersen, G. S. Blair, and F. Eliassen. OOPP: A Reflective Component-Based Middleware. In *Proceedings of NIK'2000*, Bodø, Norway, November 2000. <http://www.comp.lancs.ac.uk/computing/research/mpg/reflection/papers/nik.ps.gz>. 2.2.3
- [11] T. A. Anderson, Y. Breitbart, H. F. Korth, and A. Wool. Replication, Consistency, and Practicality: Are These Mutually Exclusive? In *Proceedings of the ACM SIGMOD International Conference on Management of Data (SIGMOD'98)*, pages 484–495, Seattle, Washington, USA, June 1998. <http://citeseer.nj.nec.com/anderson98replication.html>. 2.3.1
- [12] T. E. Anderson, D. E. Culler, D. A. Patterson, and the NOW team. A Case for NOW (Networks of Workstations). *IEEE Micro*, 15(1):54–64, January 1995. <http://now.cs.berkeley.edu/Case/case.ps>. 2.3.2
- [13] F. André, A.-M. Kermarrec, and F. Le Mouël. Improvement of the QoS via an Adaptive and Dynamic Distribution of Applications in a Mobile Environment. In *Proceedings of the 19th IEEE Symposium on Reliable Distributed Systems (SRDS'2000)*, pages 21–29, Nürnberg, Germany, October 2000. 1.1.2
- [14] F. André and E. Saint Pol. A middleware for transactional hospital applications on local wireless networks. In *Proceedings of 2000 International Conference on Parallel and Distributed Processing Techniques and Application (PDPTA'2000)*, Monte Carlo Resort Casino, Las Vegas, USA, June 2000. <http://www.irisa.fr/solidor/doc/abstr00/pdpta00.html>. 2.2.1

- [15] F. André and M.-T. Segarra. On Building a File System for Mobile Environments Using Generic Services. In *Proceedings of the 12th International Conference on Parallel and Distributed Computing Systems (PDCS'99)*, Radisson Bahia Mar Beach Resort, Florida, USA, August 1999. <http://www.irisa.fr/solidor/doc/ps99/pdcs99.ps.gz>. 2.2.1
- [16] F. André and M.-T. Segarra. A Generic Approach to Satisfy Adaptability Needs in Mobile Environments. In *Proceedings of the 33rd Annual Hawaii International Conference on System Sciences (HICSS-33)*, Maui, Hawaii, January 2000. <http://www.irisa.fr/solidor/doc/ps00/hicss33.ps.gz>. 2.2.2
- [17] O. Angin, A. T. Campbell, M. E. Kounavis, and R. R.-F. Liao. The Mobiware Toolkit: Programmable Support for Adaptive Mobile Networking. *IEEE Personal Communications Magazine, Special Issue on Adapting to Network and Client Variability*, August 1998. http://comet.ctr.columbia.edu/mobiware/papers/mobiware_pcs98.pdf. 2.2.2
- [18] Y. Aridor and M. Oshima. Infrastructure for Mobile Agents: Requirements and Design. In *Proceedings of Mobile Agents, 2nd International Workshop (MA'98)*, volume 1477 of *Lecture Notes in Computer Science*, pages 38–49. Springer Verlag, Stuttgart, Germany, September 1998. 2.3.2
- [19] ATM Forum. *Home Page*. <http://www.atmforum.com>. 2.1.2
- [20] M. Autili, P. Inverardi, and M. Tivoli. Automatic Adaptor Synthesis for Protocol Transformation. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/05_autili_inverardi_tivoli.pdf. 3.2.1
- [21] J. Bacon, K. Moody, J. Bates, R. Hayton, C. Ma, A. McNeil, O. Seidel, and M. Spiteri. Generic Support for Distributed Applications. *IEEE Computer*, 33(3):68–76, March 2000. <http://www.cl.cam.ac.uk/Research/SRG/opera/publications/Papers/computer-march2000.pdf>. 2.3.2
- [22] A. Baggio. Design and Early Implementation of the Cadmium Mobile and Disconnectable Middleware Support. Technical Report 3515, INRIA, October 1998. <http://www.cs.vu.nl/~baggio/ps/RR-3515.ps.gz>. 2.3.1
- [23] A. Baggio. Replication and Caching Strategies in Cadmium. Technical Report 3409, INRIA, April 1998. <http://www.cs.vu.nl/~baggio/ps/RR-3409.ps.gz>. 2.3.1
- [24] A. Baggio. *Adaptable and Mobile-Aware Distributed Objects*. PhD thesis, Université Pierre et Marie Curie and INRIA, Paris, France, June 1999. <http://www.cs.vu.nl/~baggio/ps/thesis99.pdf>. 2.3.1
- [25] A. Baggio, G. Ballintijn, M. van Steen, and A. S. Tanenbaum. Efficient Tracking of Mobile Objects in Globe. *The Computer Journal*, 44(5):340–353, 2001. <http://www.cs.vu.nl/pub/papers/globe/compjournal.01.pdf>. 2.3.2
- [26] M. Baker, X. Zhao, S. Cheshire, and J. Stone. Supporting Mobility in Mosquitonet. In *Proceedings of the 1996 USENIX Technical Conference*, pages 127–140, January 1996. <http://mosquitonet.stanford.edu/publications/usenix96.mobile.ps>. 2.2.2
- [27] A. V. Bakre and B. R. Badrinath. I-TCP: Indirect TCP for Mobile Hosts. In *Proceedings of the 15th International Conference on Distributed Computing Systems (ICDCS'95)*, pages 136–143, Vancouver, British Columbia, Canada, May 1995. <ftp://paul.rutgers.edu/pub/badri/itcp-tr314.ps.Z>. 2.2.1
- [28] A. V. Bakre and B. R. Badrinath. M-RPC: A Remote Procedure Call Service for Mobile Clients. In *Proceedings of the 1st Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'95)*, pages 97–110, Berkeley, California, USA, November 1995. <ftp://paul.rutgers.edu/pub/badri/mrpc.ps.Z>. 2.3.2
- [29] A. V. Bakre and B. R. Badrinath. Implementation and Performance Evaluation of Indirect TCP. *IEEE Transactions on Computers*, 46(3):260–278, March 1997. <http://www.cs.kau.se/cs/prtp/papers/t0260.pdf.gz>. 2.2.1

- [30] A. Balachandran, A. T. Campbell, and M. E. Kounavis. Active Filters: Delivering Scaled Media to Mobile Devices. In *Proceedings of the 7th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'97)*, St. Louis, Missouri, USA, May 1997. http://comet.ctr.columbia.edu/mobiware/papers/filters_nossdav97.pdf. 2.2.2, 2.3.1
- [31] H. Balakrishnan, V. N. Padmanabhan, S. Seshan, and R. H. Katz. A comparison of mechanisms for improving TCP performance over wireless links. *IEEE/ACM Transactions on Networking*, 5(6):756–769, 1997. <http://www.cs.berkeley.edu/~hari/papers/ton.ps>. 2.2.1
- [32] H. Balakrishnan, S. Seshan, E. Amir, and R. H. Katz. Improving TCP/IP Performance over Wireless Networks. In *Proceedings of the 1st Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'95)*, pages 2–11, Berkeley, California, USA, November 1995. <http://www.cs.berkeley.edu/~hari/papers/mcn.ps>. 2.2.1
- [33] H. Balakrishnan, S. Seshan, and R. H. Katz. Improving Reliable Transport and Hand-off Performance in Cellular Wireless Networks. *ACM Wireless Networks*, 1(4), 1995. <http://daedalus.cs.Berkeley.edu/publications/winet.ps.gz>. 2.2.1
- [34] R. K. Balan, M. Satyanarayanan, S. Park, and T. Okoshi. Tactics-Based Remote Execution for Mobile Computing. In *Proceedings of the 1st International Conference on Mobile Systems, Applications, and Services (MobiSys'2003)*, San Francisco, CA, USA, May 2003. <http://gs129.sp.cs.cmu.edu/papers/mobisys03.pdf>. 2.2.1, 2.3.2, 2.3.2
- [35] G. Ballintijn, M. van Steen, and A.S. Tanenbaum. Scalable Naming in Global Middleware. In *Proceedings of the 13th International Conference on Parallel and Distributed Computing Systems (PDCS'2000)*, pages 624–631, Las Vegas, Nevada, USA, August 2000. <http://www.cs.vu.nl/pub/papers/globe/pdcs.00.pdf>. 2.3.2
- [36] S. Bandyopadhyay and K. Paul. Evaluating the performance of mobile agent based message communication among mobile hosts in large ad hoc wireless network. In *Proceedings of the 2nd ACM International Workshop on Modeling Analysis and Simulation of Wireless and Mobile Systems, In conjunction with the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 69–73, Seattle, Washington, USA, August 1999. <http://www.iimcal.ac.in/faculty/facpage.asp?ID=somprakash&tab=4>. 2.3.2
- [37] O. Barais, E. Cariou, L. Duchien, N. Pessemier, and L. Seinturier. TranSAT: A Framework for the Specification of Software Architecture Evolution. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/04_barais_cariou_duchien_pessemier_seinturier.pdf. 3.2.1
- [38] M. Beauvois and T. Coupaye. La composition de services techniques vu comme une composition d'aspects non orthogonaux. In *Actes de la Journées Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://arcad.essi.fr/2002-10-composants/papiers/01-court-beauvois.pdf>. 3.2
- [39] J. Beaver, N. Morsillo, K. Pruhs, P. K. Chrysanthis, and V. Liberatore. Scalable Dissemination: What's Hot and What's Not. In *Proceedings of the Seventh International Workshop on the Web and Databases (WebDB'2004)*, Paris, France, June 2004. <http://webdb2004.cs.columbia.edu/papers/3-1.pdf>. 4
- [40] S. Becker and R. H. Reussner. The Impact of Software Component Adaptors on Quality of Service Properties. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/03_becker_reussner.pdf. 3.2.1
- [41] P. Bellavista and A. Corradi. How to Support Internet-based Distribution of Video on Demand to Portable Devices. In *Proceedings of the 7th IEEE International Symposium*

- on *Computers and Communications (ISCC'2002)*, pages 126–132, Taormina, Italy, July 2002. <http://www-lia.deis.unibo.it/Staff/PaoloBellavista/papers/iscc02a.pdf>. 2.3.2
- [42] P. Bellavista, A. Corradi, and C. Stefanelli. A Secure and Open Mobile Agent Programming Environment. In *Proceedings of the 4th International Symposium on Autonomous Decentralized Systems (ISADS'99)*, pages 238–245, Tokyo, Japan, March 1999. <http://www.computer.org/proceedings/isads/0137/01370238abs.htm>. 2.3.2
- [43] P. Bellavista, A. Corradi, and C. Stefanelli. How to Monitor and Control Resource Usage in Mobile Agent Systems. In *Proceedings of the 3rd International Symposium on Distributed Objects & Applications (DOA'2001)*, pages 65–75, Rome, Italy, September 2001. <http://lia.deis.unibo.it/Staff/PaoloBellavista/papers/doa01.pdf>. 2.3.2
- [44] P. Bellavista, A. Corradi, and C. Stefanelli. Mobile Agent Middleware for Mobile Computing. *IEEE Computer*, 34(3):73–81, March 2001. <http://www.computer.org/computer/co2001/r3073abs.htm>. 2.3.2
- [45] P. Bellavista, A. Corradi, and A. Tomasi. The Mobile Agent Technology to Support and to Access Museum Information. In *Proceedings of the 2000 ACM Symposium on Applied Computing (SAC'2000)*, pages 1006–1013, Villa Olmo, Como, Italy, March 2000. <http://lia.deis.unibo.it/Staff/PaoloBellavista/papers/sac00a.pdf>. 2.3.2
- [46] F. Bellifemine, A. Poggi, and G. Rimassa. JADE – A FIPA-compliant agent framework. In *Proceedings of the 4th International Conference and Exhibition on The Practical Application of Intelligent Agents and Multi-Agent Technology (PAAM'99)*, pages 97–108, London, UK, April 1999. <http://sharon.csel.it/projects/jade/papers/PAAM.pdf>. 2.3.2
- [47] A. Ben Hamida and F. Le Mouël. Middleware minimal et auto-extensible pour le déploiement de services en environnement pervasif. In *Actes des 3ème Journées Francophones de la Mobilité et Ubiquité (UbiMob'2006)*, CNAM, Paris, France, September 2006. 1.1.5
- [48] A. Ben Hamida and F. Le Mouël. Resurrection: A Platform for Spontaneously Generating and Managing Proximity Documents. In *Proceedings of the IEEE International Conference on Pervasive Services (ICPS'2006)*, pages 333–336, Lyon, France, June 2006. 1.1.13
- [49] A. Ben Hamida, F. Le Mouël, S. Frénot, and M. Ben Ahmed. Approche pour un chargement contextuel de services sur des dispositifs contraints. In *Actes du 6ème atelier sur les Objets, Composants et Modèles dans l'ingénierie des Systèmes d'Information (OCM-SI'2007) organisé conjointement avec INFORSID'2007*, Perros-Guirec, France, May 2007. 1.1.5
- [50] A. Ben Hamida, F. Le Mouël, S. Frénot, and M. Ben Ahmed. Contextual Service Loading by Dependency Graph Colouring. In *Proceedings of the 8th International Conference on New Technologies in Distributed Systems (NOTERE'2008)*, pages 182–187, Lyon, France, June 2008. 1.1.5
- [51] A. Ben Hamida, F. Le Mouël, S. Frénot, and M. Ben Ahmed. A Graph-based Approach for Contextual Service Loading in Pervasive Environments. In *Proceedings of the 10th International Symposium on Distributed Objects and Applications (DOA'2008)*, volume 5331 of *Lecture Notes in Computer Science*, pages 589–606. Springer Verlag, Monterrey, Mexico, November 2008. 1.1.5
- [52] A. Ben Hamida, F. Le Mouël, S. Frénot, and M. Ben Ahmed. Une approche pour un chargement contextuel de services dans les environnements pervasifs. *Networking and Information Systems / Ingénierie des Systèmes d'Information (ISI)*, 13(3):59–82, June 2008. Special edition. 1.1.5
- [53] A. Ben Hamida, F. Le Mouël, S. Frénot, and M. Ben Ahmed. Déploiement adaptatif d'applications orientées services sur environnements contraints. *Computer Science and Technology / Technique et Science Informatiques (TSI)*, 30(1):59–91, 2011. 1.1.5

- [54] S. Ben Mokhtar, Y.-D. Bromberg, N. Georgantas, N. Ibrahim, V. Issarny, W. Jouve, F. Le Mouël, L. Réveillère, D. Sacchetti, F. Tartanoglu, A. Gérodolle, M. Vallée, M. Anagnostou, I. Papaioannou, I. Roussaki, D. Tsesmetzis, J. Parra, E. Naroska, R. Mevissen, S. Tobies, R. Poortinga, P. Pawar, A. Tokmakoff, J. García, J. M. Miranda, M. Planagumà, Á. Ramos, D. Roldán, J. Kalaoja, J. Kantorovitch, I. Niskanen, and T. Piirainen. Amigo Middleware Core Enhanced: Prototype Implementation & Documentation. Deliverable 3.3, European Amigo Project, October 2006. [1.2.2](#)
- [55] S. Ben Mokhtar, Y.-D. Bromberg, N. Georgantas, N. Ibrahim, V. Issarny, A. Kaul, F. Le Mouël, D. Sacchetti, F. Tartanoglu, A. Gérodolle, M. Vallée, M. Anagnostou, I. Papaioannou, I. Roussaki, D. Tsesmetzis, J. Parra, M. Ahler, R. Mevissen, D. Schaffrath, S. Tobies, H. Eertink, P. Pawar, R. Poortinga, A. Tokmakoff, J. García, J. M. Miranda, M. Planagumà, Á. Ramos, S. Sorribas, J. Kalaoja, and J. Kantorovitch. Amigo Middleware Core: Prototype Implementation & Documentation. Deliverable 3.2, European Amigo Project, March 2006. [1.2.2](#)
- [56] S. Ben Mokhtar, Y.-D. Bromberg, N. Georgantas, N. Ibrahim, V. Issarny, F. Le Mouël, D. Sacchetti, A. Gérodolle, M. Anagnostou, I. Papaioannou, I. Roussaki, D. Tsesmetzis, J. Parra, H. Eertink, R. Poortinga, A. Tokmakoff, S. C. Martinez, J. M. Miranda, Á. Ramos, J. Zuidweg, and M. Karjalainen. Detailed Design of the Amigo Middleware Core – Service Specification, Interoperable Middleware Core. Deliverable 3.1b, European Amigo Project, September 2005. [1.2.2](#)
- [57] F. Bergenti and A. Poggi. LEAP: a FIPA Platform for Handheld and Mobile Devices. In *Proceedings of the 8th International Workshop on Agent Theories, Architectures, and Languages (ATAL'2001)*, Seattle, Washington, USA, August 2001. <http://leap.crm-paris.com/public/docs/ATAL2001.pdf>. [2.3.2](#)
- [58] L. Berger. *Mise en oeuvre des interactions en environnements distribués, compilés et fortement typés: le modèle MICADO*. PhD thesis, Université de Nice, Nice, France, October 2001. <http://www.essi.fr/~rainbow/Publi/TheseLaurent.ps.gz>. [2.2.3](#)
- [59] L. Berger. Interaction et modèles de programmation, support des interactions dans les systèmes objets et componentiels. *Numéro spécial de la revue L'OBJET*, 8(3):9–38, September 2002. [3.2](#)
- [60] M. Berger, B. Bauer, and M. Watzke. A Scalable Agent Infrastructure. In *Proceedings of the 2nd International Workshop on Infrastructure for Agents, MAS, and Scalable MAS, At the 5th International Conference on Autonomous Agents (Agents'2001)*, Montreal, Canada, June 2001. <http://leap.crm-paris.com/public/docs/ScalableAgentsInfrastructureFinal.pdf>. [2.3.2](#)
- [61] M. Berger, B. Bauer, and M. Watzke. Towards an Agent-based Infrastructure for Distributed Virtual Organizations. In *Proceedings of the IEEE 10th International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE'2001)*, MIT, Cambridge, Massachusetts, USA, June 2001. http://leap.crm-paris.com/public/docs/WBI_berger_AgentInfrastructure.pdf. [2.3.2](#)
- [62] Berkeley Software Distribution (BSD) License. *Java Compiler CompilerTM (JavaCCTM) - The Java Parser Generator - Home Page*. <https://javacc.dev.java.net>. [3.1](#)
- [63] G. Bernard and B. Folliot. Caractéristiques Générales du Placement Dynamique : Synthèse et Problématique. In *Tutoriel invité dans les actes de l'école d'été MASI-IMAG-INT-PRISM "Placement dynamique et répartition de charge : application aux systèmes parallèles et répartis"*, Presqu'île de Giens, France, July 1996. <http://www-inf.int-evry.fr/~bernard/papers/PRC96.ps.gz>. [2.3.2](#)
- [64] G. Bernard, D. Stève, and M. Simatic. Placement et migration de processus dans les systèmes répartis faiblement couplés. *Technique et Science Informatiques*, 10(5), May 1991. <http://etna.int-evry.fr/~bernard/publis-gb/french.html>. [2.3.2](#)

- [65] J. Bézivin. From Object Composition to Model Transformation with the MDA. In *Proceedings of the 39th International Conference and Exhibition on Technology of Object-Oriented Languages and Systems (TOOLS'39)*, pages 350–354, Santa Barbara, California, USA, August 2001. <http://www.sciences.univ-nantes.fr/info/lrsg/Recherche/mda/TOOLS.USA.pdf>. 2.3.2
- [66] H. Bharadvaj, A. Joshi, and S. Auephanwiriyaikul. An Active Transcoding Proxy to Support Mobile Web Access. In *Proceedings of the 17th Symposium on Reliable Distributed Systems (SRDS'98)*, pages 118–123, West Lafayette, Indiana, USA, October 1998. <http://www.cs.umbc.edu/~ajoshi/resch/mowserh.pdf>. 2.3.1
- [67] A. Bhattacharya and S. K. Das. LeZi-Update: An Information-Theoretic Approach to Track Mobile Users in PCS Networks. In *Proceedings of the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 1–12, Seattle, Washington, USA, August 1999. <http://crewman.uta.edu/~amiya/pubs/mcn99.pdf>. 2.3.1
- [68] G. Bianchi, A. T. Campbell, and R. R.-F. Liao. On Utility-Fair Adaptive Services in Wireless Networks. In *Proceedings of the 6th International Workshop on Quality of Service (IWQoS'98)*, Napa Valley, California, USA, May 1998. <http://comet.columbia.edu/~liao/publications/iwqos98.pdf>. 2.2.2
- [69] S. Biaz and N. H. Vaidya. Distinguishing Congestion Losses from Wireless Transmission Losses: A Negative Result. In *Proceedings of the 7th International Conference on Computer Communications and Networks (IC3N'98)*, pages 722–731, Lafayette, Louisiana, USA, October 1998. <http://www.cs.tamu.edu/faculty/vaidya/papers/mobile-computing/ic3n98.ps>. 2.2.1
- [70] S. Biaz and N. H. Vaidya. Discriminating Congestion Losses from Wireless Losses using Inter-Arrival Times at the Receiver. In *Proceedings of the IEEE Symposium on Application-Specific Systems and Software Engineering Technology (ASSET'99)*, pages 10–17, Richardson, Texas, USA, March 1999. <http://www.cs.tamu.edu/faculty/vaidya/papers/mobile-computing/asset99.ps>. 2.2.1
- [71] G. Blair, G. Coulson, P. Robin, and M. Papathomas. An Architecture for Next Generation Middleware. In *Proceedings of the IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'98)*, pages 191–206, The Lake District, England, September 1998. <ftp://ftp.comp.lancs.ac.uk/pub/mpg/MPG-98-27.ps.Z>. 2.2.3
- [72] M. Blay-Fornarino, D. Ensellem, A. Occello, A.-M. Pinna-Dery, M. Riveill, J. Fierstone, O. Nano, and G. Chabert. Un service d'interactions : principes et implémentation. In *Actes de la Journée Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://arcad.essi.fr/2002-10-composants/papiers/02-long-blay.pdf>. 3.2
- [73] Bluetooth. *Home Page*. <http://www.bluetooth.com>. 2.1.2
- [74] G. Bobeff and J. Noyé. Molding Components using Program Specialization Techniques. In *Actes de la Journée du groupe de travail OCM (Objets, Composants et Modèles) (en marge de LMO'2003)*, Vannes, France, February 2003. <http://www.univ-ubs.fr/valoria/Jacques.Malenfant/ALP.OCM/Journee2003/Bobeff.pdf>. 3.2
- [75] D. Bobrow, L. DiMichiel, R. P. Gabriel, S. Keene, G. Kiczales, and D. Moon. Common LISP Object System Specification: X3J13 Document 88-002R. *ACM SIGPLAN Notices*, 23(Special Issue):1–143, September 1988. <http://citeseer.nj.nec.com/context/81177/0>. 2.2.3
- [76] J. Bom, P. Marques, M. Correia, and P. Pinto. QoS Control: an Application Integrated Framework. In *Proceedings of the 1st IEEE International Conference on ATM (ICATM'98)*, Colmar, France, June 1998. <http://www.di.fc.ul.pt/~mpc/icatm.ps.gz>. 2.3.2

- [77] M. E. Bonfigli, G. Cabri, L. Leonardi, and F. Zambonelli. Mobile Devices to Assist Cultural Visits. In *Proceedings of the International Cultural Heritage Informatics Meeting (ICHIM'2001)*, pages 183–189, Politecnico di Milano, Milan, Italy, September 2001. http://www.archimuse.com/ichim2001/abstracts/prg_115000651.html. 2.3.2
- [78] G. Booch. Patterns and Protocols. *Report on Object Analysis and Design (ROAD)*, 2(7), May–June 1996. 3.2
- [79] N. M. N. Bouraqadi-Saâdani, T. Ledoux, and M. Südholt. A Reflective Infrastructure for Coarse-Grained Strong Mobility and its Tool-Based Implementation. Technical Report TR 01/7/INFO, École des Mines de Nantes, Nantes, France, July 2001. <http://www.emn.fr/info/recherche/publications/RR01/01-7-INFO.pdf>. 2.2.3, 80
- [80] N. M. N. Bouraqadi-Saâdani, T. Ledoux, and M. Südholt. A Reflective Infrastructure for Coarse-Grained Strong Mobility and its Tool-Based Implementation. Invited presentation at the International Workshop on Experiences with reflective systems, In conjunction with Reflection 2001, the 3rd International Conference on Metalevel Architectures and Separation of Crosscutting Concerns), September 2001. publié aussi dans [79]. 2.2.3
- [81] D. Box, D. Ehnebuske, G. Kakivaya, A. Layman, N. Mendelsohn, H. F. Nielsen, S. Thatte, and D. Winer. *Simple Object Access Protocol (SOAP) 1.1*. World Wide Web Consortium, May 2000. statut : « W3C Note, W3C Submission », <http://www.w3.org/TR/SOAP/>. 2.3.2
- [82] J. Bradshaw, editor. *Handbook of Agent Technology*. AAAI/MIT-Press, 2003. <http://mitpress.mit.edu>. 2.3.2, 198
- [83] K. Brown and S. Singh. M-TCP: TCP for Mobile Cellular Networks. *ACM Computer Communication Review*, 27(5):19–43, 1997. <ftp://ftp.ece.orst.edu/pub/users/singh/papers/mtcp.ps.gz>. 2.2.1
- [84] E. Bruneton, R. Lenglet, and T. Coupaye. ASM : un outil de manipulation de code pour la réalisation de systèmes adaptables (ASM: a code manipulation tool for the construction of adaptable systems). In *Actes de la Journées Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://arcad.essi.fr/2002-10-composants/papiers/17-long-bruneton.pdf>. 2.2.3, 3.2
- [85] C. Bryce, M.A.C. Dekker, S. Etalle, D. Le Métayer, F. Le Mouël, M. Minier, J. Moret-Bailly, and S. Ubéda. Ubiquitous Privacy Protection. In *Proceedings of the 5th Workshop on Ubicomp Privacy in conjunction with the 9th International Conference on Ubiquitous Computing (UbiComp'2007)*, Innsbruck, Austria, September 2007. Position Paper. 1.1.14, 1.2.4
- [86] V. Budau and G. Bernard. Auto-Adaptation to Communication Environment through Dynamic Change of Communication Model. In *Proceedings of 23rd International Conference on Distributed Computing Systems Workshops (ICDCS'2003 Workshops) – DARES - The International Workshop on Distributed Auto-Adaptive and Reconfigurable Systems*, pages 153–158, Providence, Rhode Island, USA, May 2003. <http://csdl.computer.org/comp/proceedings/icdcs/2003/1921/00/19210153abs.htm>. 2.2.3, 3.2
- [87] G. Cabillic and I. Puaut. Dealing with Heterogeneity in Stardust: An Environment for Parallel Programming on Networks of Heterogeneous Workstations. In *Proceedings of 2nd International Euro-Par Conference (Euro-Par'96)*, pages 114–119, Lyon, France, August 1996. <http://www.irisa.fr/solidor/doc/ps96/stardust-europar96.ps.gz>. 2.3.2
- [88] G. Cabri, L. Leonardi, and F. Zambonelli. Reactive Tuple Spaces for Mobile Agent Coordination. In *Proceedings of Mobile Agents, 2nd International Workshop (MA'98)*, volume 1477 of *Lecture Notes in Computer Science*, pages 237–248. Springer Verlag, Stuttgart, Germany, September 1998. <http://polaris.ing.unimo.it/MOON/papers/papers.html#Paper3>. 2.3.2

- [89] G. Cabri, L. Leonardi, and F. Zambonelli. Auction-Based Agent Negotiation via Programmable Tuple Spaces. In *Proceedings of the 4th International Workshop on Cooperative Information Agents (CIA'2000)*, volume 1860 of *Lecture Notes in Computer Science*, pages 83–94. Springer Verlag, Boston, Massachusetts, USA, July 2000. <http://polaris.ing.unimo.it/MOON/papers/cia00.pdf>. 2.3.2
- [90] G. Cabri, L. Leonardi, and F. Zambonelli. Context-Dependency in Internet-Agent Coordination. In *Proceedings of the 1st International Workshop on Engineering Societies in the Agent World (ESAW'2000)*, volume 1972 of *Lecture Notes in Computer Science*, pages 51–63. Springer Verlag, Berlin, Germany, August 2000. <http://polaris.ing.unimo.it/MOON/papers/esaw00.pdf>. 2.3.2
- [91] G. Cabri, L. Leonardi, and F. Zambonelli. MARS: A Programmable Coordination Architecture for Mobile Agents. *IEEE Internet Computing*, 4(4):26–35, July–August 2000. <http://sirio.dsi.unimo.it/Zambonelli/PDF/MARS.pdf>. 2.3.2
- [92] R. Cáceres and L. Iftode. The Effects of Mobility on Reliable Transport Protocols. In *Proceedings of the 14th IEEE International Conference on Distributed Computing Systems (ICDCS'94)*, pages 12–20, Poznan, Poland, June 1994. <http://www.kiskeya.net/ramon/work/pubs/icdcs94.ps.gz>. 2.2.1
- [93] R. Cáceres and L. Iftode. Improving the Performance of Reliable Transport Protocols in Mobile Computing Environments. *IEEE Journal on Selected Areas in Communications*, 13(5):850–857, June 1995. <http://www.kiskeya.net/ramon/work/pubs/jsac95.ps.gz>. 2.2.1
- [94] S. Campadello, O. Koskimies, K. Raatikainen, and H. Helin. Wireless Java RMI. In *Proceedings of the 4th International Enterprise Distributed Objects Computing Conference (EDOC'2000)*, pages 114–123, Makuhari, Japan, September 2000. <http://www.cs.helsinki.fi/research/monads/papers/edoc2000/edoc2000.pdf>. 2.3.2
- [95] A. T. Campbell. Mobeware: QOS Aware Middleware for Mobile Multimedia Communications. In *Proceedings of the 7th IFIP International Conference on High Performance Networking (HPN)*, pages 166–183, White Plains, New York, USA, April 1997. http://comet.ctr.columbia.edu/mobeware/papers/mobeware_hpn97.pdf. 2.2.2
- [96] A. T. Campbell and G. Coulson. A QOS Adaptive Multimedia Transport System: Design, Implementation and Experiences. *Distributed Systems Engineering Journal, Special Issue on Quality of Service*, 4(1):48–58, March 1997. <http://comet.ctr.columbia.edu/~campbell/andrew/publications/papers/dsej97.pdf>. 2.3.2
- [97] A. T. Campbell, M. E. Kounavis, and R. R.-F. Liao. Programmable Mobile Networks. *Computer Networks and ISDN Systems*, 31(7):49–73, 1999. http://comet.ctr.columbia.edu/mobeware/papers/pmn_comnet.pdf. 2.2.2
- [98] C. Canal. On the dynamic adaptation of component behaviour. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/10_canal.pdf. 3.2.1
- [99] D. Caromel, W. Klauser, and J. Vayssiere. Towards Seamless Computing and Meta-computing in Java. *Concurrency – Practice and Experience*, 10(11–13):1043–1061, September–November 1998. <http://www-sop.inria.fr/oasis/ProActive/doc/javallCPE.ps>. 2.2.3
- [100] N. Carriero, E. Freeman, D. Gelernter, and D. Kaminsky. Adaptive Parallelism and Piranha. *IEEE Computer*, 28(1):40–49, January 1995. <http://www.cs.yale.edu/Linda/papers/shortp.ps>. 2.3.2
- [101] N. Carriero and D. Gelernter. How to Write Parallel Programs: A Guide to the Perplexed. *ACM Computing Surveys*, 21(3):323–357, September 1989. <http://www.cs.yale.edu/Linda/linda-lang.html>. 2.3.2

- [102] O. Carrillo, N. Stouls, R. Laurent, N. Plokhoy, Q. Zhou, J. Ponge, and F. Le Mouël. HardenedGolo: pour augmenter le niveau de confiance en un code Golo. In *Actes des 16ème Journées sur les Approches Formelles dans l'Assistance au Développement de Logiciels (AFADL'2017)*, Montpellier, France, June 2017. 1.1.1
- [103] Casio. *Home Page*. <http://www.casio.com>. 2.1.1
- [104] W. Cazzola. *Communication-Oriented Reflection: a Way to Open Up the RMI Mechanism*. PhD thesis, Università degli Studi di Genova, Milano, Italy, November 2000. <http://www.disi.unige.it/person/CazzolaW/ps/phd-thesis.ps.gz>. 2.2.3
- [105] W. Cazzola and M. Ancona. mChaRM: a Reflective Middleware for Communication-Based Reflection. Technical Report DISI-TR-00-09, Università degli Studi di Genova, Genova, Italy, May 2000. <http://www.disi.unige.it/person/CazzolaW/ps/DISI-TR-00-09.ps.gz>. 2.2.3
- [106] S. Cen, C. Pu, R. Staehli, C. Cowan, and J. Walpole. A Distributed Real-Time MPEG Video Audio Player. In *Proceedings of the 5th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'95)*, volume 1018 of *Lecture Notes in Computer Science*, pages 142–153. Springer Verlag, Durham, New Hampshire, USA, April 1995. <ftp://cse.ogi.edu/pub/dsrg/synthetix/nossdav.ps.gz>. 2.3.2
- [107] H. Cervantes and M. Ketfi. Composants adaptables au dessus d'OSGi. In *Actes de la Journées Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://www-adele.imag.fr/Les.Publications/intConferences/JOURNEES2002Cer.pdf>. 2.2.3, 3.2
- [108] U. Çetintemel and P. J. Keleher. Light-Weight Currency Management Mechanisms in Deno. In *Proceedings of the 10th International Workshop on Research Issues on Data Engineering: Middleware for Mobile Business Applications and E-Commerce (RIDE'2000)*, pages 17–24, San Diego, California, USA, February 2000. <http://www.cs.umd.edu/~keleher/papers/ride2k.pdf>. 2.3.1
- [109] U. Çetintemel and P. J. Keleher. Performance of Mobile, Single-Object, Replication Protocols. In *Proceedings of the 19th IEEE Symposium on Reliable Distributed Systems (SRDS'2000)*, pages 218–227, Nürnberg, Germany, October 2000. <http://www.cs.umd.edu/~keleher/papers/srds2000.pdf>. 2.3.1
- [110] U. Çetintemel, P. J. Keleher, and M. Franklin. Support for Speculative Update Propagation and Mobility in Deno. In *Proceedings of the 22nd International Conference on Distributed Computing Systems (ICDCS'2001)*, Mesa, Arizona, USA, April 2001. <http://www.cs.umd.edu/~keleher/papers/icdcs-deno01.pdf>. 2.3.1
- [111] D. Chalmers and M. Sloman. A Survey of Quality of Service in Mobile Computing Environments. *IEEE Communications Surveys*, 2(2), Second Quarter 1999. http://www.doc.ic.ac.uk/~dc/Papers/QoSsurvey_published.pdf. 2.2.2
- [112] D. Chalmers, M. Sloman, and N. Dulay. Map Adaptation for Users of Mobile Systems. In *Proceedings of the 10th International World Wide Web Conference (WWW'10)*, pages 735–744, Hong Kong, China, May 2001. <http://www.doc.ic.ac.uk/~dc/Papers/www10.pdf>. 2.3.1
- [113] H. Chamekh and F. Le Mouël. An Ontology-based Approach to Semantically Deploy Services in Pervasive Environments. In *Proceedings of the 2nd IEEE International Workshop on Services Integration in Pervasive Environments (SIPE'2007) in conjunction with the IEEE International Conference on Pervasive Services (ICPS'2007)*, pages 403–408, Istanbul, Turkey, July 2007. 1.1.5
- [114] A. C. F. Chan, D. H. K. Tsang, and S. Gupta. Impacts of Handoff on TCP Performance in Mobile Wireless Computing. In *Proceedings of the IEEE International Conference on Personal Wireless Communications (ICPWC'97)*, pages 184–188, Mumbai (Bombay), India, December 1997. http://www.ee.ust.hk/~ustatm/papers/alder_icpwc97.ps. 2.2.1

- [115] H. Chang, C. D. Tait, N. Cohen, M. Shapiro, S. Mastrianni, R. Floyd, B. C. Housel, and D. B. Lindquist. Web Browsing in a Wireless Environment: Disconnected and Asynchronous Operation in ARTour Web Express. In *Proceedings of the 3rd Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'97)*, pages 260–269, Budapest, Hungary, September 1997. <http://www.acm.org/pubs/articles/proceedings/comm/262116/p260-chang/p260-chang.pdf>. 2.2.1
- [116] S. J. Chapin, D. Katramatos, J. F. Karpovich, and A. S. Grimshaw. The Legion Resource Management System. In *Proceedings of the 5th Workshop on Job Scheduling Strategies for Parallel Processing (JSSPP'99), In conjunction with the 2nd Merged Symposium 13th International Parallel Processing Symposium & 10th Symposium on Parallel and Distributed Processing (IPPS/SPDP'99)*, volume 1659 of *Lecture Notes in Computer Science*, pages 162–178. Springer Verlag, San Juan, Puerto Rico, April 1999. <http://www.cs.virginia.edu/~legion/papers/legionrm.pdf>. 2.3.2
- [117] D. Chappell. The Microsoft Transaction Server (MTS) – Transactions Meet Components. *Patricia Seybold's Distributed Computing Monitor Newsletter*, June 1997. <http://www.microsoft.com/com/wpaper/mtscomp.asp>. 2.3.2
- [118] P. Chatonnay, L. Philippe, and H. Y. Chan. Evaluation of a Multicriteria Method to Optimize Resource Access in Distributed Object Systems. *Parallel and Distributed Computing Practices*, 3(1):21–31, December 2000. <http://www.cs.okstate.edu/~pdc/vols/vol03/vol03no1abs.html>. 2.3.2
- [119] K. Cheverst, N. Davies, K. Mitchell, A. Friday, and C. Efstratiou. Developing a Context-aware Electronic Tourist Guide: Some Issues and Experiences. In *Proceedings of the Annual Conference on Human Factors in Computing Systems (CHI'2000)*, pages 17–24, The Hague, The Netherlands, April 2000. <http://www.guide.lancs.ac.uk/CHIpaper.pdf>. 2.3.1
- [120] S. Chiba. A Metaobject Protocol for C++. In *Proceedings of the 10th ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA'95)*, Austin, Texas, USA, October 1995. <http://www.csg.is.titech.ac.jp/~chiba/pub/chiba-oopsla95.ps.gz>. 2.2.3
- [121] S. Chiba. Javassist – A Reflection-based Programming Wizard for Java. In *Proceedings of the Workshop on Reflective Programming in C++ at the 13th ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA'98)*, Vancouver, Canada, October 1998. <http://www.csg.is.titech.ac.jp/~chiba/oopsla98/proc/chiba.pdf>. 2.2.3
- [122] S. Chiba. Macro Processing in Object-Oriented Languages. In *Proceedings of the Technology of Object-Oriented Languages and Systems (TOOLS Pacific'98)*, Melbourne, Australia, November 1998. <http://www.csg.is.titech.ac.jp/~chiba/pub/chiba-tools98.ps.gz>. 2.2.3
- [123] S. Chiba. Load-Time Structural Reflection in Java. In *Proceedings of the 14th European Conference on Object-Oriented Programming (ECOOP'2000)*, volume 1850 of *Lecture Notes in Computer Science*, pages 313–336. Springer Verlag, Cannes, France, June 2000. <http://www.csg.is.titech.ac.jp/~chiba/pub/chiba-ecoop00.pdf>. 2.2.3
- [124] S. Chiba and M. Tatsubori. Yet Another java.lang.Class. In *Proceedings of the Workshop on Reflective Object-Oriented Programming and Systems at the 12th European Conference on Object-Oriented Programming (ECOOP'98)*, pages 372–373, Brussels, Belgium, July 1998. http://www.csg.is.titech.ac.jp/~mich/openjava/papers/chiba_ECOOP98ws.pdf. 2.2.3
- [125] J. H. P. Chim, M. Green, R. W. H. Lau, H. Va Leong, and A. Si. On Caching and Prefetching of Virtual Objects in Distributed Virtual Environments. In *Proceedings of the 6th ACM International Conference on Mul-*

- timedia (Multimedia'98)*, pages 171–180, Bristol, England, September 1998. http://www.acm.org/sigs/sigmm/MM98/electronic_proceedings/chim/. 2.3.1
- [126] R. Chinnici, M. Gudgin, J.-J. Moreau, and S. Weerawarana. *Web Services Description Language (WSDL) 1.2*. World Wide Web Consortium, March 2003. statut : « W3C Working Draft », <http://www.w3.org/TR/wsdl12/>. 2.3.2
- [127] W. L. Choo, F. Le Mouël, K. Jaffrès Runser, and M. Fiore. Adding Network Coding Capabilities to the WSN Net Simulator. Technical Report RT-0405, INRIA, 03 2011. 1.1.9
- [128] Compaq. *Home Page*. <http://www.compaq.com>. 2.1.1
- [129] A. Corradi, L. Leonardi, and F. Zambonelli. Diffusive Load-Balancing Policies for Dynamic Applications. *IEEE Concurrency*, 7(1):22–31, January–March 1999. <http://sirio.dsi.unimo.it/Zambonelli/PDF/Concurrency.pdf>. 2.3.2
- [130] S. Corson and J. Macker. Mobile Ad hoc Networking (MANET): Routing Protocol Performance Issues and Evaluation Considerations. Request For Comments (RFC) 2501, January 1999. statut : « Informational », <http://www.ietf.org/rfc/rfc2501.txt>. 2.1.2
- [131] F. M. Costa. *Combining Meta-Information Management and Reflection in an Architecture for Configurable and Reconfigurable Middleware*. PhD thesis, Computing Department, Lancaster University, Lancaster, UK, September 2001. <http://www.comp.lancs.ac.uk/computing/users/fmc/papers/thesis.pdf>. 2.2.3
- [132] L. Courtrai, F. Guidec, N. Le Sommer, and Y. Mahéo. Resource Management for Parallel Adaptive Components. In *Proceedings of the Workshop on Java for Parallel and Distributed Computing (JPDC) at International Parallel and Distributed Processing Symposium (IPDPS'2003)*, Nice, France, April 2003. http://www.univ-uubs.fr/valoria/Composants/CASA/Concerto/papier_IPDPS2003.pdf. 2.3.2, 3.2
- [133] S. E. Czerwinski, B. Y. Zhao, T. D. Hodes, A. D. Joseph, and R. H. Katz. An Architecture for a Secure Service Discovery Service. In *Proceedings of the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 24–35, Seattle, Washington, USA, August 1999. <http://ninja.cs.berkeley.edu/dist/papers/sds-mobicom.pdf>. 2.3.2
- [134] M. Dahm. Byte Code Engineering. In *Proceedings of Java-Information-Tage (JIT'99)*, pages 267–277, Düsseldorf, Deutschland, September 1999. <ftp://ftp.inf.fu-berlin.de/pub/BCEL/paper.pdf>. 3.1
- [135] DARPA/CSTO. *Travler Home Page*. Contract n.: DABT63-94-C-0080, <http://fmg-www.cs.ucla.edu/travler98/welcome.html>. 2.3.1
- [136] N. Davies, G. Blair, K. Cheverst, and A. Friday. Supporting Adaptive Services in a Heterogeneous Mobile Environment. In *Proceedings of 1st Workshop on Mobile Computing Systems and Applications (WMCSA'94)*, Santa Cruz, USA, December 1994. <http://www.comp.lancs.ac.uk/computing/research/mpg/most/reports/mcsa.ps>. 2.2.2
- [137] N. Davies, A. Friday, G. Blair, and K. Cheverst. Distributed Systems Support for Adaptive Mobile Applications. *ACM Mobile Networks and Applications, Special Issue on Mobile Computing - System Services*, 1(4):399–408, 1996. <http://www.comp.lancs.ac.uk/computing/research/mpg/most/reports/ACMNomadSI.ps>. 2.2.2
- [138] N. Davies, A. Friday, S. Wade, and G. Blair. L²imbo: A Distributed Systems Platform for Mobile Computing. *Mobile Networks and Applications (MONET)*, 3(2):143–156, 1998. <ftp://ftp.comp.lancs.ac.uk/pub/mpg/MPG-97-03.ps.gz>. 2.2.2, 2.3.2
- [139] N. Davies, S. Wade, A. Friday, and G. Blair. Limbo: A Tuple Space Based Platform for Adaptive Mobile Applications. In *Proceedings of the International Conference on Open Distributed Processing/Distributed Platforms (ICODP/ICDP '97)*, pages 291–302, Toronto, Canada, May 1997. <http://www.comp.lancs.ac.uk/computing/research/mpg/most/reports/icodp97.ps.gz>. 2.2.2, 2.3.2

- [140] V. de Nitto Persone, V. Grassi, and A. Morlupi. Modeling and Evaluation of Prefetching Policies for Context-Aware Information Services. In *Proceedings of the 4th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'98)*, pages 55–65, Dallas, Texas, USA, October 1998. 2.3.1
- [141] T. Decker. Virtual Data Space – Load Balancing for Irregular Applications. *Parallel Computing*, 26(13–14):1825–1860, December 2000. http://www.uni-paderborn.de/cs/ag-monien/PUBLICATIONS/POSTSCRIPTS/De00_VDS.ps.Z. 2.3.2
- [142] S. Deering and R. Hinden. Internet Protocol, Version 6 (IPv6) Specification. Request For Comments (RFC) 2460, December 1998. statut : « Draft Standard », <http://www.ietf.org/rfc/rfc2460.txt>. 2.2.1
- [143] Dell. *Home Page*. <http://www.dell.com>. 2.1.1
- [144] A. J. Demers, K. Petersen, M. J. Spreitzer, D. B. Terry, M. M. Theimer, and B. B. Welch. The Bayou Architecture: Support for Data Sharing among Mobile Users. In *Proceedings of the IEEE Workshop on Mobile Computing Systems and Applications*, pages 2–7, Santa Cruz, California, USA, December 1994. <http://www2.parc.com/csl/projects/bayou/pubs/ba-mcw-94/MobileWorkshop.ps.gz>. 2.3.1
- [145] T. Dierks and C. Allen. The TLS Protocol Version 1.0. Request For Comments (RFC) 2246, January 1999. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2246.txt>. 2.2.2
- [146] distributed.net. *Home Page*. <http://www.distributed.net>. 2.3.2
- [147] F. Douglass and J. Ousterhout. Transparent Process Migration: Design Alternatives and the Sprite Implementation. *Software-Practice and Experience*, 21(8):757–785, August 1991. <http://www.douglass.org/fred/work/papers/mig.ps.gz>. 2.3.2
- [148] R. Droms, J. Bound, B. Volz, T. Lemon, C. Perkins, and M. Carney. Dynamic Host Configuration Protocol for IPv6 (DHCPv6). Internet-Draft, November 2002. statut : « expire le 30 avril 2003 », <http://www.ietf.org/internet-drafts/draft-ietf-dhc-dhcpv6-28.txt>. 2.2.1
- [149] R. Dube, C. D. Rais, and S. K. Tripathi. Improving NFS Performance Over Wireless Links. *IEEE Transactions on Computers*, 46(3):290–298, 1997. <http://www.cs.umd.edu/projects/mcml/papers/toe97.ps>. 2.2.2
- [150] B. Dumant, F. Horn, F. Dang Tran, and J.-B. Stéfani. Jonathan: an Open Distributed Processing Environment in Java. In *Proceedings of the IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'98)*, pages 173–190, The Lake District, England, September 1998. <http://www.objectweb.org/jonathan/current/doc/hrefs/framework.ps>. 2.2.3
- [151] W. K. Edwards, E. D. Mynatt, K. Petersen, M. J. Spreitzer, D. B. Terry, and M. M. Theimer. Designing and Implementing Asynchronous Collaborative Applications with Bayou. In *Proceedings of the 10th ACM Symposium on User Interface Software and Technology (UIST'97)*, pages 119–128, Banff, Alberta, Canada, October 1997. <http://www2.parc.com/csl/projects/bayou/pubs/uist-97/Bayou.pdf>. 2.3.1
- [152] Y. Eterovich, J.M. Murillo, and K. Palma. Managing Components Adaptation Using Aspect Oriented Techniques. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/12_eterovich_murillo_palma.pdf. 3.2.1
- [153] European Telecommunications Standards Institute. *BRAN Home Page*. <http://www.etsi.org/bran/>. 2.1.2
- [154] European Telecommunications Standards Institute. *Broadband Radio Access Networks (BRAN); High Performance Radio Local Area Network (HIPERLAN) Type 1; Functional specification*, July 1998. statut : « Publication, version 1.2.1 », <http://portal.etsi.org/bran/kta/Hiperlan/hiperlan1.asp>. 2.1.2

- [155] European Telecommunications Standards Institute. *Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; System Overview*, February 2000. statut : « Publication, version 1.1.1 », <http://portal.etsi.org/bran/kta/Hiperlan/hiperlan2.asp>. 2.1.2
- [156] J.-C. Fabre and T. Pérennou. A Metaobject Architecture for Fault-Tolerant Distributed Systems: The FRIENDS Approach. *IEEE Transactions on Computers*, 47(1):78–95, January 1998. http://dbsvr.laas.fr/pls/LAAS/publis.rech_doc?langage=FR&clef=19034. 2.2.3
- [157] P. Ferguson and D. Senie. Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing. Request For Comments (RFC) 2827, Best Current Practice (BCP) 0038, May 2000. statut : « Best Current Practice », <ftp://ftp.isi.edu/in-notes/bcp/bcp38.txt>. 2.2.2
- [158] R. Fielding, J. Gettys, J. Mogul, H. Frystyk, L. Masinter, P. Leach, and T. Berners-Lee. Hypertext Transfer Protocol – HTTP/1.1. Request For Comments (RFC) 2616, June 1999. statut : « Draft Standard », <ftp://ftp.isi.edu/in-notes/rfc2616.txt>. 2.2.1
- [159] S. Floyd, J. Mahdavi, M. Mathis, and M. Podolsky. An Extension to the Selective Acknowledgement (SACK) Option for TCP. Request For Comments (RFC) 2883, July 2000. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2883.txt>. 2.2.1
- [160] B. Folliot. *Méthodes et Outils de Partage de Charge pour la Conception et la Mise en Œuvre d'Applications dans les Systèmes Réparties Hétérogènes*. PhD thesis, MASI laboratory, Paris 6 University, Paris, France, December 1992. 2.3.2
- [161] B. Folliot and P. Sens. GATOSTAR: A Fault Tolerant Load Sharing Facility for Parallel Applications. In *Proceedings of the 1st European Dependable Computing Conference (EDCC'94)*, volume 852 of *Lecture Notes in Computer Science*, pages 581–598. Springer-Verlag, October 1994. <http://www-src.lip6.fr/homepages/Pierre.Sens/publications/EDCC1.ps.gz>. 2.3.2
- [162] G. H. Forman and J. Zahorjan. The Challenges of Mobile Computing. *IEEE Computer*, 27(4):38–47, April 1994. <http://citeseer.nj.nec.com/38782.html>. 2
- [163] I. Foster and C. Kesselman. Globus: A Metacomputing Infrastructure Toolkit. *International Journal of Supercomputer Applications and High Performance Computing*, 11(2):115–128, 1997. <ftp://ftp.globus.org/pub/globus/papers/globus.pdf>. 2.3.2
- [164] Foundation for Intelligent Physical Agents. *FIPA Abstract Architecture Specification*, December 2002. statut : « Standard, version L », <http://www.fipa.org/specs/fipa00001/>. 2.3.2
- [165] A. Fox and E. A. Brewer. Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation. In *Proceedings of the 5th International World Wide Web Conferences (WWW'5)*, volume 28, n.7–11 of *Computer Networks and ISDN Systems*, pages 1445–1456. Elsevier Science, Paris, France, May 1996. <http://daedalus.cs.berkeley.edu/publications/www96.ps.gz>. 2.3.1
- [166] A. Fox, I. Goldberg, S. D. Gribble, D. C. Lee, A. Polito, and E. A. Brewer. Experience With Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot. In *Proceedings of the IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'98)*, pages 407–424, Lake District, UK, September 1998. <http://daedalus.cs.berkeley.edu/publications/wingman.ps.gz>. 2.3.2
- [167] A. Fox, S. Gribble, E. A. Brewer, and E. Amir. Adapting to Network and Client Variability via On-Demand Dynamic Distillation. In *Proceedings of the 7th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-VII)*, volume 31, n.9 of *SIGPLAN Notices*, pages 160–170. ACM, Cambridge, Massachusetts, USA, October 1996. <http://daedalus.cs.berkeley.edu/publications/adaptive.ps.gz>. 2.3.1

- [168] A. Fox, S. D. Gribble, Y. Chawathe, and E. A. Brewer. Adapting to Network and Client Variation Using Infrastructural Proxies: Lessons and Perspectives. *IEEE Personal Communications (invited submission)*, 5(4):10–19, August 1998. <http://daedalus.cs.berkeley.edu/publications/adapt.ps.gz>. 2.3.2
- [169] A. Fox, S. D. Gribble, Y. Chawathe, E. A. Brewer, and P. Gauthier. Cluster-Based Scalable Network Services. In *Proceedings of the 16th ACM Symposium on Operating System Principles (SOSP'97)*, volume 31, n.5 of *Operating System Review*, pages 78–91. ACM Press, St. Malo, France, October 1997. <http://daedalus.cs.berkeley.edu/publications/sosp16.ps.gz>. 2.3.2
- [170] S. Franklin and A. Graesser. Is it an Agent, or Just a Program?: A Taxonomy for Autonomous Agents. In *Proceedings of the 3rd International Workshop on Agent Theories, Architectures, and Language (ATAL'96)*, volume 1193 of *Lecture Notes in Computer Science*, pages 21–35. Springer Verlag, Budapest, Hungary, August 1996. <ftp://ftp.msci.memphis.edu/comp/caat/agentprog.ps.z>. 2.3.2
- [171] Free On-Line Dictionary Of Computing. *Home Page*. <http://foldoc.doc.ic.ac.uk/foldoc>. 4.1
- [172] S. Frénot, N. Ibrahim, F. Le Mouël, A. Ben Hamida, J. Ponge, M. Chantrel, and D. Beras. ROCS: a Remotely Provisioned OSGi Framework for Ambient Systems. In *Proceedings of the 12th IEEE/IFIP Network Operations and Management Symposium (NOMS'2010)*, pages 503–510, Osaka, Japan, April 2010. 1.1.2
- [173] S. Frénot, F. Le Mouël, J. Ponge, and G. Salagnac. Various Extensions for the Ambient OSGi Framework. In *Proceedings of the 4th International workshop on Adaptive and Dependable Mobile Ubiquitous Systems (ADAMUS'2010) in conjunction with the ACM International Conference on Pervasive Services (ICPS'2010)*, Berlin, Germany, July 2010. Invited Paper. 1.1
- [174] S. Frénot, F. Le Mouël, J. Ponge, and G. Salagnac. Various Extensions for the Ambient OSGi Framework. *International Journal of Adaptive, Resilient and Autonomic Systems (IJARAS)*, 2(3):1–12, July 2011. 1.1
- [175] S. Frénot, F. Le Mouël, J. Ponge, and G. Salagnac. *Various Extensions for the Ambient OSGi Framework*, chapter 712, pages 1799–1810. Computer Engineering: Concepts, Methodologies, Tools and Applications. IGI Global, May 2012. 1.1
- [176] A. Friday, G. Blair, K. Cheverst, and N. Davies. Extensions to ANSAware for Advanced Mobile Applications. In *Proceedings of the 1st International Conference on Distributed Platforms (ICDP'96)*, Dresden, Germany, February 1996. <http://www.comp.lancs.ac.uk/computing/research/mpg/most/reports/icdp.adrian.ps>. 2.2.2
- [177] A. Friday, N. Davies, G. Blair, and K. Cheverst. Developing Adaptive Applications: The MOST Experience. *Journal of Integrated Computer-Aided Engineering*, 6(2):143–157, 1999. <ftp://ftp.comp.lancs.ac.uk/pub/mpg/MPG-99-10.ps.gz>. 2.2.2
- [178] E. Gamma, R. Helm, R. Johnson, and J. Vlissides. *Design Patterns*. Addison Wesley Professional Computing Series. Addison Wesley, 1995. <http://www.aw.com>. 2.2.3
- [179] Globalstar. *Home Page*. <http://www.globalstar.com>. 2.1.2
- [180] Gnutella. *Home Page*. <http://www.gnutella.com>. 2.3.2
- [181] T. Goff, J. Moronski, D. S. Phatak, and V. Gupta. Freeze-TCP: A True End-to-End TCP Enhancement Mechanism for Mobile Environments. In *Proceedings IEEE INFOCOM 2000*, pages 1537–1545, Tel Aviv, Israel, March 2000. <http://www.ieee-infocom.org/2000/papers/501.pdf>. 2.2.1
- [182] R. Golchay, F. Le Mouël, S. Frénot, and J. Ponge. Les smartphones comme passerelle de services : peuvent-ils relier l'Internet des choses (IoT) et la virtualisation dans les nuages (Cloud) ? In *Journées Systèmes Embarqués (Semba'2011)*, Valence, France, October 2011. Poster. 1.1.7

- [183] R. Golchay, F. Le Mouël, S. Frénot, and J. Ponge. Towards Bridging IoT and Cloud Services: Proposing Smartphones as Mobile and Autonomic Service Gateways. In *Actes des 7ème Journées Francophones de la Mobilité et Ubiquité (UbiMob'2011)*, pages 45–48, Toulouse, France, June 2011. Position Paper. [1.1.7](#)
- [184] R. Golchay, F. Le Mouël, J. Ponge, and N. Stouls. Les smartphones comme passerelle de services : peuvent-ils relier l'Internet des choses (IoT) et la virtualisation dans les nuages (Cloud) ? In *Conférence d'informatique en Parallélisme, Architecture et Systèmes (ComPAS'2013) - Conférence Française en Systèmes d'Exploitation (CFSE'9)*, Grenoble, France, January 2013. Poster. [1.1.7](#)
- [185] R. Golchay, F. Le Mouël, J. Ponge, and N. Stouls. Automated Application Offloading through Ant-inspired Decision-Making. In *Proceedings of the 13th International Conference on New Technologies in Distributed Systems (NOTERE'2016)*, Paris, France, July 2016. [1.1.7](#)
- [186] R. Golchay, F. Le Mouël, J. Ponge, and N. Stouls. Spontaneous Proximity Clouds: Making Mobile Devices to Collaborate for Resource and Data Sharing. In *Proceedings of the 12th EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom'2016)*, Beijing, China, November 2016. Best Paper. [1.1.7](#)
- [187] A. Goldberg and D. Robson. *Smalltalk-80: The Language*. Addison Wesley, 1989. <http://www.aw.com/catalog/academic/product/0,4096,0201136880,00.html>. [3.1](#)
- [188] M. Golm. MetaXa and the Future of Reflection. In *Proceedings of the Workshop on Reflective Programming in C++ and Java at the 13th ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA'98)*, pages 1–5, Vancouver, Canada, October 1998. <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-98-09.pdf>. [2.2.3](#)
- [189] M. Golm and J. Kleinöder. MetaJava – A Platform for Adaptable Operating-System Mechanisms. In *Proceedings of the Workshop on Object-Oriented Programming and Operating Systems at the 11th European Conference on Object-Oriented Programming (ECOOP'97)*, volume 1357 of *Lecture Notes in Computer Science*, pages 507–514. Springer Verlag, Jyväskylä, Finland, June 1997. <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-97-10.pdf>. [2.2.3](#)
- [190] J. Gomoluch and M. Schroeder. Information Agents on the Move: A Survey on Load-Balancing with Mobile Agents. *Software Focus*, 2(2), April 2001. <http://www.soi.city.ac.uk/~ck655/papers/swfocus.ps>. [2.3.2](#)
- [191] L. Gong. *Project JXTA: A Technical Overview*. Sun Microsystems, April 2001. <http://www.jxta.org/project/www/docs/TechOverview.pdf>. [2.3.2](#)
- [192] J. Govea and M. Barbeau. Results of Comparing Bandwidth Usage and Latency: Service Location Protocol and Jini. In *Proceedings of the Workshop on Ad hoc Communications, In conjunction with the 7th European Conference on Computer Supported Cooperative Work (ECSCW 2001)*, Bonn, Germany, September 2001. <http://www.scs.carleton.ca/~barbeau/Publications/2001/WAHC/govea.pdf>. [2.3.2](#)
- [193] B. Gowing and V. Cahill. Meta-Object Protocols for C++: The Iguana Approach. In *Proceedings of 1st International Conference on Meta-Level Architectures and Reflection (Reflection'96)*, pages 137–152, San Francisco, California, USA, April 1996. <ftp://ftp.dsg.cs.tcd.ie/pub/doc/dsg-97.ps.gz>. [2.2.3](#)
- [194] C. G. Gray and D. R. Cheriton. Leases: An Efficient Fault-Tolerant Mechanism for Distributed File Cache Consistency. In *Proceedings of the 12th ACM Symposium on Operating System Principles (SOSP'89)*, pages 202–210, The Wigwam, Litchfield Park, Arizona, USA, December 1989. <http://www.acm.org/pubs/articles/proceedings/ops/74850/p202-gray/p202-gray.pdf>. [2.2.1](#)

- [195] R. S. Gray. *Agent Tcl: A flexible and secure mobile-agent system*. PhD thesis, Dartmouth College, Hanover, New Hampshire, USA, June 1997. <ftp://ftp.cs.dartmouth.edu/TR/TR98-327.pdf>. 2.3.2
- [196] R. S. Gray. Soldiers, Agents and Wireless Networks: A Report on a Military Application. In *Proceedings of the 5th International Conference and Exhibition on The Practical Application of Intelligent Agents and Multi-Agent Technology (PAAM'2000)*, Manchester, England, April 2000. <http://actcomm.dartmouth.edu/papers/gray:overview.pdf>. 2.3.2
- [197] R. S. Gray, G. Cybenko, D. Kotz, and D. Rus. Mobile agents: Motivations and State of the Art. Technical Report TR2000-365, Department of Computer Science, Dartmouth College, Hanover, New Hampshire, USA, April 2000. <ftp://ftp.cs.dartmouth.edu/TR/TR2000-365.pdf>. 2.3.2, 198
- [198] R. S. Gray, G. Cybenko, D. Kotz, and D. Rus. *Mobile agents: Motivations and State of the Art*. In Bradshaw [82], 2001. publié aussi dans [197]. 2.3.2
- [199] R. S. Gray, D. Kotz, R. A. Peterson Jr., J. Barton, D. Chacón, P. Gerken, M. Hofmann, J. Bradshaw, M. Breedy, R. Jeffers, and N. Suri. Mobile-Agent versus Client/Server Performance: Scalability in an Information-Retrieval Task. In *Proceedings of Mobile Agents, 5th International Conference (MA'2001)*, volume 2240 of *Lecture Notes in Computer Science*, pages 229–243. Springer Verlag, Atlanta, Georgia, USA, December 2001. <http://agent.cs.dartmouth.edu/papers/gray:scalability.pdf>. 2.3.2
- [200] R. S. Gray, D. Kotz, S. Nog, D. Rus, and G. Cybenko. Mobile agents for mobile computing. Technical Report PCS-TR96-285, Department of Computer Science, Dartmouth College, Hanover, New Hampshire, USA, May 1996. <ftp://ftp.cs.dartmouth.edu/TR/TR96-285.pdf>. 2.3.2
- [201] A. S. Grimshaw, Wm. A. Wulf, and the whole Legion team. The Legion Vision of a Worldwide Virtual Computer. *Communication of the ACM*, 40(1):39–45, January 1997. <http://www.cs.virginia.edu/~legion/papers/cacm.ps>. 2.3.2
- [202] D. Grinberg, S. Rajagopalan, R. Venkatesan, and V. K. Wei. Splay Trees for Data Compression. In *Proceedings of the 6th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA'95)*, pages 522–530, San Francisco, California, USA, January 1995. <http://www.cs.cmu.edu/afs/cs.cmu.edu/user/dennis/www/papers/ps/soda95.ps>. 2.3.1
- [203] E. Guttman. Service Location Protocol: Automatic Discovery of IP Network Services. *IEEE Internet Computing*, 3(4):71–80, July–August 1999. <http://www.srvloc.org/slp-article.pdf>. 2.3.2
- [204] E. Guttman, C. Perkins, J. Veizades, and M. Day. Service Location Protocol, Version 2. Request For Comments (RFC) 2608, June 1999. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2608.txt>. 2.3.2
- [205] R. G. Guy, P. L. Reiher, D. Ratner, M. Gunter, W. Ma, and G. J. Popek. Rumor: Mobile Data Access Through Optimistic Peer-to-Peer Replication. In *Proceedings of the ER'98 Workshops on Data Warehousing and Data Mining, Mobile Data Access, and Collaborative Work Support and Spatio-Temporal Data Management*, volume 1552 of *Lecture Notes in Computer Science*, pages 254–265. Springer Verlag, Singapore, November 1998. <http://fimg-www.cs.ucla.edu/rumor98/er98wmda.ps>. 2.3.1
- [206] H. Guyennet, B. Herrmann, F. Spies, and L. Philippe. A Comparison Study of Dynamic Load Balancing Algorithms. *International Journal of Mini and Microcomputers*, 19(3):70–77, 1997. 2.3.2
- [207] Z. J. Haas. Mobile-TCP: An Asymmetric Transport Protocol Design for Mobile Systems. In *Proceedings of the International Conference on Communications (ICC'97)*, pages 1054–1058, Montreal, Canada, June 1997. <http://www.ee.cornell.edu/~haas/Publications/mmc.ps>. 2.2.1
- [208] Handspring. *Home Page*. <http://www.handspring.com>. 2.1.1

- [209] J. S. Hansen and T. Reich. Semi-Connected TCP/IP in a Mobile Computing Environment. Master's thesis, Department of Computer Science, University of Copenhagen, Copenhagen, Denmark, June 1996. <ftp://ftp.diku.dk/pub/diku/users/cyller/taco/diku95-6-11.ps.gz>. 2.2.1
- [210] J. S. Hansen, T. Reich, and B. Andersen. Semi-Connected TCP/IP in a Mobile Computing Environment. In *The International Workshop for Information Visualization and Mobile Computing (IMC'96)*, Rostock, Germany, February 1996. <ftp://ftp.diku.dk/pub/diku/users/cyller/taco/imc96paper.ps.gz>. 2.2.1
- [211] A. Harter and A. Hopper. A Distributed Location System for the Active Office. *IEEE Network*, 8(1):62–70, January 1994. <ftp.orl.co.uk/pub/docs/ORL/tr.94.1.ps.Z>. 2.1.2
- [212] J. Heidemann, F. Silva, and D. Estrin. Matching Data Dissemination Algorithms to Application Requirements. In *Proceedings of the ACM SenSys Conference*, pages 218–229, Los Angeles, California, USA, November 2003. ACM. 2.3.1
- [213] T. Heistracher, T. Kurz, C. Masuch, P. Ferronato, M. Vidal, A. Corallo, and P. Dini. Pervasive Service Architecture for a Digital Business Ecosystem. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/09_heistracher_kurz_masuch_ferronato_vidal_corallo_dini.pdf. 3.2.1
- [214] A. S. Helal, B. Haskell, J. L. Carter, R. Brice, D. Woelk, and M. Rusinkiewicz. *Any Time, Anywhere Computing*. Kluwer Academic Publishers, 1999. <http://www.wkap.nl>. 2
- [215] H. Helin, H. Laamanen, and K. Raatikainen. Mobile Agent Communication in Wireless Networks. In *Proceedings of Wireless'99/ITG'99*, pages 211–216, Munich, Germany, October 1999. http://www.cs.helsinki.fi/research/monads/papers/wireless99/agent_comm.pdf. 2.3.2
- [216] Hewlett-Packard. *Home Page*. <http://www.hp.com>. 2.1.1
- [217] F. Hohl, U. Kubach, A. Leonhardi, K. Rothermel, and M. Schwehm. Next Century Challenges: Nexus – An Open Global Infrastructure for Spatial-Aware Applications. In *Proceedings of the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 249–255, Seattle, Washington, USA, August 1999. <http://www.informatik.uni-stuttgart.de/ipvr/vs/Publications/1999-hohlEA-01.ps.gz>. 2.3.1
- [218] A. Hokimoto, K. Kurihara, and T. Nakajima. An Approach for Constructing Mobile Applications using Service Proxies. In *Proceedings of the 16th International Conference on Distributed Computing Systems (ICDCS'96)*, pages 726–733, Wanchai, Hong Kong, May 1996. <http://mmmc.jaist.ac.jp:8000/publications/1996/PostScript/dcs96-hokimoto.ps.gz>. 2.3.2
- [219] G. Holland and N. H. Vaidya. Analysis of TCP Performance over Mobile Ad Hoc Networks. In *Proceedings of the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 219–230, Seattle, Washington, USA, August 1999. <http://www.acm.org/pubs/articles/proceedings/comm/313451/p219-holland/p219-holland.pdf>. 2.2.1
- [220] J. K. Hollingsworth and B. P. Miller. Dynamic Control of Performance Monitoring on Large Scale Parallel Systems. In *Proceedings of the 7th ACM International Conference on Supercomputing (ICS'93)*, pages 185–194, Tokyo, Japan, July 1993. <http://www.cs.umd.edu/~hollings/papers/ics93.pdf>. 2.3.2
- [221] B. C. Housel and D. B. Lindquist. WebExpress: A System for Optimizing Web Browsing in a Wireless Environment. In *Proceedings of the 2nd Annual International Conference on Mobile Computing and Networking (MobiCom'96)*, pages 108–116, Rye, New York, USA, November 1996. <http://www.acm.org/pubs/articles/proceedings/comm/236387/p108-housel/p108-housel.pdf>. 2.2.1

- [222] B. C. Housel, G. Samaras, and D. B. Lindquist. WebExpress: A Client/Intercept Based System for Optimizing Web Browsing in a Wireless Environment. *Mobile Networks and Applications (MONET)*, 3(4):419–431, 1998. <http://www.acm.org/pubs/articles/journals/monet/1999-3-4/p419-housel/p419-housel.pdf>. 2.2.1
- [223] S. C. Hupfer. Melinda: Linda with Multiple Tuple Space. Technical Report YALE/DCS/RR-766, Department of Computer Science, Yale University, Connecticut, USA, February 1990. <http://www.cs.yale.edu/Linda/tech-reports.html>. 2.3.2
- [224] IBM. *Home Page*. <http://www.ibm.com>. 2.1.1
- [225] N. Ibrahim, S. Frénot, and F. Le Mouël. User-Excentric Service Composition in Pervasive Environment. In *Proceedings of the 24th IEEE International Conference on Advanced Information Networking and Applications (AINA'2010)*, pages 682–689, Perth, Australia, April 2010. 1.1.4
- [226] N. Ibrahim and F. Le Mouël. ANIS: A Negotiated Integration of Services in Distributed Environments. In *Proceedings of the 8th International Symposium on Distributed Objects and Applications (DOA'2006)*, volume 4276 of *Lecture Notes in Computer Science*, pages 1467–1484. Springer Verlag, Montpellier, France, October 2006. 1.1.3
- [227] N. Ibrahim and F. Le Mouël. Context-aware Specialization of Semantic Rules for choosing Services in Pervasive Environments. In *Proceedings of the 2nd IEEE International Workshop on Services Integration in Pervasive Environments (SIPE'2007) in conjunction with the IEEE International Conference on Pervasive Services (ICPS'2007)*, pages 391–396, Istanbul, Turkey, July 2007. 1.1.4
- [228] N. Ibrahim and F. Le Mouël. A Survey on Service Composition Middleware in Pervasive Environments. *International Journal of Computer Science Issues (IJCSI)*, 1:1–12, August 2009. Special Issue on Pervasive Computing. 1.1, 1.1.4
- [229] N. Ibrahim, F. Le Mouël, and S. Frénot. Automatic Negotiated Integration of Services in Pervasive Environments. In *Proceedings of the Middleware for Web Services Workshop (MWS'2005) in conjunction with the 9th International IEEE Enterprise Distributed Object Computing Conference (EDOC'2005)*, Enschede, The Netherlands, September 2005. "Most Promising Research" Award, NICTA. 1.1.4
- [230] N. Ibrahim, F. Le Mouël, and S. Frénot. Intégration négociée de services dans les systèmes distribués. In *Actes des Journées Composants (JC'2006)*, Perpignan, France, October 2006. 1.1.3
- [231] N. Ibrahim, F. Le Mouël, and S. Frénot. Techniques d'intégration de services dans les environnements distribués. In *Actes du 5ème atelier sur les Objets, Composants et Modèles dans l'ingénierie des Systèmes d'Information (OCM-SI'2006) organisé conjointement avec INFORSID'2006*, Hammamet, Tunisie, May 2006. 1.1.3
- [232] N. Ibrahim, F. Le Mouël, and S. Frénot. Automatic Service-Integration Framework for Ubiquitous Environments. In *Proceedings of the International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM'2007)*, pages 15–20, Papeete, French Polynesia (Tahiti), France, November 2007. 1.1.4
- [233] N. Ibrahim, F. Le Mouël, and S. Frénot. C-ANIS: A Contextual, Automatic and Dynamic Service-Oriented Integration Framework. In *Proceedings of the International Symposium on Ubiquitous Computing Systems (UCS'2007)*, volume 4836 of *Lecture Notes in Computer Science*, pages 118–133. Springer Verlag, Tokyo, Japan, November 2007. 1.1.4
- [234] N. Ibrahim, F. Le Mouël, and S. Frénot. *Middleware Technologies for Ubiquitous Computing*, chapter 12, pages 122–131. Handbook of Research on Next Generation Networks and Ubiquitous Computing. IGI Global, 2010. 1.1.4
- [235] N. Ibrahim, F. Le Mouël, and S. Frénot. Semantic Service Substitution in Pervasive Environments. *International Journal of Services, Economics and Management (IJSEM)*, 6(4):283–309, 2014. 1.1.4

- [236] IEEE. *IEEE 1394 Standard for a High Performance Serial Bus*, 1995. <http://standards.ieee.org/catalog/olis/busarch.html>. 2.1.1
- [237] IEEE. *IEEE Std 802.11a-1999, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: High-speed Physical Layer in the 5 GHz Band*, 1999. statut : « Supplement to IEEE Std 802.11-1999, Adopted by ISO/IEC and redesignated as ISO/IEC 8802-11:1999/Amd 1:2000(E) », <http://a957.g.akamai.net/7/957/3680/v0001/standards.ieee.org/reading/ieee/std/lanman/802.11a-1999.pdf>. 2.1.2
- [238] IEEE. *IEEE Std 802.11b-1999, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band*, 1999. statut : « Supplement to IEEE Std 802.11-1999 », <http://a957.g.akamai.net/7/957/3680/v0001/standards.ieee.org/reading/ieee/std/lanman/802.11b-1999.pdf>. 2.1.2
- [239] IEEE. *IEEE 1394a Standard for a High Performance Serial Bus – Amendment 1*, 2000. <http://standards.ieee.org/catalog/olis/busarch.html>. 2.1.1
- [240] IEEE. *IEEE Std 802.11-1999, Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications*, Édition 1999. statut : « Adopted by the ISO/IEC and redesignated as ISO/IEC 8802-11:1999(E) », <http://a957.g.akamai.net/7/957/3680/v0001/standards.ieee.org/reading/ieee/std/lanman/802.11-1999.pdf>. 2.1.2
- [241] IEEE Working Group for CSMA/CD (Ethernet) based LANs Standards. *Home Page*. <http://grouper.ieee.org/groups/802/3/>. 2.1.2
- [242] IEEE Working Group for WLAN Standards. *Home Page*. <http://grouper.ieee.org/groups/802/11/>. 2.1.2
- [243] IETF Routing Working Group: Mobile Ad-hoc Networks (MANET). *Home Page*. <http://www.ietf.org/html.charters/manet-charter.html>. 2.1.2
- [244] T. Imielinski and H. F. Korth, editors. *Mobile Computing*, volume 353 of *The Kluwer International Series in Engineering and Computer Science*. Kluwer Academic Publishers, February 1996. <http://www.wkap.nl>. 2, 287
- [245] Infrared Data Association. *Home Page*. <http://www.irda.org>. 2.1.2
- [246] Infrared Data Association. *Link Management Protocol*, January 1996. statut : « Version 1.1 », <http://www.irda.org/standards/pubs/IrData.zip>. 2.1.2
- [247] Infrared Data Association. *Serial Infrared Link Access Protocol (IrLAP)*, June 1996. statut : « Version 1.1, complément et errata du 5 janvier 1999 », <http://www.irda.org/standards/pubs/IrData.zip>. 2.1.2
- [248] Infrared Data Association. *IrDA Control Specification (Formerly IrBus) IrDA CIR (Control IR) Standard*, June 1998. statut : « Version 1.0, errata du 26 octobre 1999 », http://www.irda.org/standards/pubs/Irda_ControlV1p0E.zip. 2.1.2
- [249] Infrared Data Association. *Serial Infrared Physical Layer Specification*, May 2001. statut : « Version 1.4 », <http://www.irda.org/standards/pubs/IrData.zip>. 2.1.2
- [250] International Organization for Standardization, Geneva, Switzerland. *ISO 8879:1986: Information processing — Text and office systems — Standard Generalized Markup Language (SGML)*, 1986. statut : « International Standard confirmed 13-08-2001 », <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16387>. 2.2.1
- [251] International Organization for Standardization, Geneva, Switzerland. *ISO/IEC 10918-1:1994: Information technology – Digital compression and coding of continuous-tone still images: Requirements and guidelines*, 1994. statut : « International Standard confirmed 21-01-2000 », <http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=18902&ICS1=35&ICS2=40&ICS3=->. 2.3.1

- [252] International Organization for Standardization, Geneva, Switzerland. *ISO/IEC 10746-2:1996: Information technology – Open Distributed Processing – Reference Model: Foundations*, 1996. statut : « International Standard confirmed 13-08-2001 », <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=18836&ICS1=35&ICS2=80&ICS3=>. 2.2.2
- [253] International Organization for Standardization, Geneva, Switzerland. *ISO/IEC 10746-3:1996: Information technology – Open Distributed Processing – Reference Model: Architecture*, 1996. statut : « International Standard confirmed 13-08-2001 », <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=20697&ICS1=35&ICS2=80&ICS3=>. 2.2.2
- [254] International Organization for Standardization, Geneva, Switzerland. *ISO/IEC 10746-1:1998: Information technology – Open Distributed Processing – Reference model: Overview*, 1998. statut : « International Standard under periodical review 27-02-2003 », <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=20696&ICS1=35&ICS2=80&ICS3=>. 2.2.2
- [255] International Organization for Standardization, Geneva, Switzerland. *ISO/IEC 10746-4:1998: Information technology – Open Distributed Processing – Reference Model: Architectural semantics*, 1998. statut : « International Standard under periodical review 27-02-2003 », <http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=20698&ICS1=35&ICS2=80&ICS3=>. 2.2.2
- [256] J. Ioannidis, D. Duchamp, and G. Q. Maguire Jr. IP-Based Protocols for Mobile Internetworking. In *Proceedings of the Conference on Communications Architecture & Protocols (SIGCOMM'91)*, pages 235–245, Zürich, Switzerland, September 1991. <http://www.acm.org/pubs/articles/proceedings/comm/115992/p235-ioannidis/p235-ioannidis.pdf>. 2.2.1
- [257] J.-I. Itoh, R. Lea, and Y. Yokote. Using meta-objects to support optimization in the Apertos operating system. In *Proceedings of the USENIX Conference on Object-Oriented Technologies (COOTS'95)*, Monterey, California, USA, June 1995. <ftp://ftp.cs.keio.ac.jp/pub/keio-cs-papers/mt/oops/1995/itojun-coots.ps.Z>. 2.2.3
- [258] J.-I. Itoh, Y. Yokote, and M. Tokoro. SCONE: Using Concurrent Objects for Low-level Operating System Programming. In *Proceedings of the 10th Annual Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA'95)*, volume 30, n.10 of *SIGPLAN Notices*, pages 385–398. ACM, Austin, Texas, USA, October 1995. <ftp://ftp.cs.keio.ac.jp/pub/keio-cs-papers/mt/oops/1995/itojun-oopsla95.ps.Z>. 2.2.3
- [259] ITU. *IMT-2000 Home Page*. <http://www.itu.int/imt/index.html>. 2.1.2
- [260] J. Jannink, D. Lam, N. Shivakumar, J. Widom, and D. Cox. Efficient and Flexible Location Management Techniques for Wireless Communication Systems. *ACM/Balzer Journal of Wireless Networks (WINET)*, 3(5):361–374, 1997. <http://dbpubs.stanford.edu/pub/showDoc.Fulltext?lang=en&doc=1997-60&format=ps&compression=gz>. 2.2.1
- [261] M. Jansen, E. Klaver, P. Verkaik, M. van Steen, and A.S. Tanenbaum. Encapsulating Distribution in Remote Objects. *Information and Software Technology*, 43(6):353–363, May 2001. <http://www.cs.vu.nl/pub/papers/globe/infosof.2001.pdf>. 2.3.2
- [262] N. R. Jennings, K. P. Sycara, and M. Wooldridge. A Roadmap of Agent Research and Development. *Autonomous Agents and Multi-Agent Systems*, 1(1):7–38, 1998. <http://www.ecs.soton.ac.uk/~nrj/download-files/roadmap.pdf>. 2.3.2
- [263] K. Jeong. *Fault-tolerant Parallel Processing Combining Linda, Checkpointing, and Transactions*. PhD thesis, Department of Computer Science, New York University, New York, USA, January 1996. http://www.cs.nyu.edu/phd_students/binli/plinda/thesis-karp.ps. 2.3.2

- [264] K. Jin, K. Kim, and J. Lee. SPACK: rapid recovery of the TCP performance using Split-ACK in mobile communication environments. In *Proceedings of the IEEE TenCon'99*, pages 761–774, Cheju, Korea, September 1999. 2.2.1
- [265] J. Jing, A. Helal, and A. K. Elmagarmid. Client-Server Computing in Mobile Environments. *ACM Computing Surveys*, 31(2):117–157, June 1999. <http://citeseer.nj.nec.com/412370.html>. 2.3.2
- [266] Jini Activity Working Group – Global Grid Forum. *Home Page*. <http://www-unix.mcs.anl.gov/gridforum/jini/>. 2.3.2
- [267] D. Johansen, K. J. Lauvset, R. van Renesse, F. B. Schneider, N. P. Sudmann, and K. Jacobsen. A TACOMA Retrospective. *Software – Practice and Experience*, 32(6):605–619, May 2002. <http://www.cs.cornell.edu/fbs/publications/tacomaRetroSPE.ps>. 2.3.2
- [268] A. D. Joseph and M. F. Kaashoek. Building Reliable Mobile-Aware Applications using the Rover Toolkit. *Wireless Networks*, 3(5):405–419, October 1997. <http://www.pdos.lcs.mit.edu/papers/winet.ps.gz>. 2.3.2
- [269] A. D. Joseph, J. A. Tauber, and M. F. Kaashoek. Mobile Computing with the Rover Toolkit. *IEEE Transactions on Computers: Special issue on Mobile Computing*, 46(3):337–352, March 1997. <http://www.pdos.lcs.mit.edu/papers/toc.ps.gz>. 2.3.2
- [270] A. Joshi, R. Weerasinghe, S. Mc.Dermott, B. Tan, G. Bernhardt, and S. Weerawarana. Mowser: Mobile Platforms and Web Browsers. *Bulletin of the Technical Committee on Operating Systems and Application Environments (TCOS)*, 8(1), 1996. <http://www.tcos.org/Bulletin/spring96/joshi.ps>. 2.3.1
- [271] A. Joshi, S. Weerawarana, and E. Houstis. On Disconnected Browsing of Distributed Information. In *Proceedings of the 7th IEEE International Workshop on Research Issues in Data Engineering (RIDE'97)*, pages 101–108, Birmingham, England, April 1997. <http://www.cs.umbc.edu/~joshi/resch/ride97.ps.gz>. 2.3.1
- [272] N. P. Jouppi. Improving Direct-Mapped Cache Performance by the Addition of a Small Fully-Associative Cache and Prefetch Buffers. In *Proceedings of the 17th Annual International Symposium on Computer Architecture*, pages 364–373, Seattle, Massachusetts, USA, June 1990. <ftp://ftp.digital.com/pub/Digital/WRL/research-reports/WRL-TN-14.ps.gz>. 2.3.1
- [273] W. Jouve, N. Ibrahim, L. Réveillère, F. Le Mouël, and C. Consel. Building Home Monitoring Applications: From Design to Implementation into The Amigo Middleware. In *Proceedings of the 2nd International Conference on Pervasive Computing and Applications (ICPCA'2007)*, Birmingham, UK, July 2007. 1.1.4, 1.2.2
- [274] M. Katrib, J. L. Pastrana, and E. Pimentel. Client Oriented Software Developing. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/01_katrib_pastrana_pimentel.pdf. 3.2.1
- [275] R. H. Katz and E. A. Brewer. The Case for Wireless Overlay Networks. In *Proceedings of the SPIE Multimedia and Networking Conference (MMNC'96)*, San Jose, California, USA, January 1996. <http://daedalus.cs.berkeley.edu/publications/SPIE96.ps.gz>. 2.3.1
- [276] R. H. Katz, E. A. Brewer, E. Amir, H. Balakrishnan, A. Fox, S. Gribble, T. D. Hodes, D. Jiang, G. T. Nguyen, V. N. Padmanabhan, and M. Stemm. The Bay Area Research Wireless Access Network (BARWAN). In *Proceedings of the 41st IEEE Computer Society International Conference: Technologies for the Information Superhighway (COMPCON'96)*, pages 15–20, Santa Clara, California, USA, February 1996. <http://daedalus.cs.berkeley.edu/publications/Compcon9.ps.gz>. 2.2.2, 2.3.1
- [277] P. J. Keleher. Decentralized Replicated-Object Protocols. In *Proceedings of the 18th Annual ACM Symposium on Principles of Distributed Computing (PODC'99)*, pages 143–151, Atlanta, Georgia, USA, May 1999. <http://www.cs.umd.edu/~keleher/papers/podc99.pdf>. 2.3.1

- [278] P. J. Keleher and U. Çetintemel. Consistency management in Deno. *Mobile Networks and Applications (MONET)*, 5(4):299–309, 2000. <http://www.cs.umd.edu/~keleher/papers/monet99.pdf>. 2.3.1
- [279] S. Keshav. A Control-Theoretic Approach to Flow Control. In *Proceedings of the Conference on Communications Architecture & Protocols (SIGCOMM'91)*, pages 3–15, Zürich, Switzerland, September 1991. <http://www.acm.org/pubs/articles/proceedings/comm/115992/p3-keshav/p3-keshav.pdf>. 2.2.1
- [280] R. Khare and S. Lawrence. Upgrading to TLS Within HTTP/1.1. Request For Comments (RFC) 2817, May 2000. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2817.txt>. 2.2.1
- [281] G. Kiczales, J. des Rivieres, and D. G. Bobrow. *The Art of the Metaobject Protocol*. MIT-Press, July 1991. <http://mitpress.mit.edu>. 2.2.3
- [282] M.-O. Killijian and J.-C. Fabre. Implementing a Reflective Fault-Tolerant CORBA System. In *Proceedings of the 19th IEEE Symposium on Reliable Distributed Systems (SRDS'2000)*, pages 154–163, Nürnberg, Germany, October 2000. http://dbserver.laas.fr/pls/LAAS/publis.rech_doc?langage=FR&clef=39073. 2.2.3
- [283] M. Kirtland. The COM+ Programming Model Makes it Easy to Write Components in Any Language. *Microsoft Systems Journal*, December 1997. <http://www.microsoft.com/msj/1297/complus2/complus2.htm>. 2.3.2
- [284] J.J. Kistler and M. Satyanarayanan. Disconnected Operation in the Coda File System. *ACM Transactions On Computer Systems*, 10(1):3–25, February 1992. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/s13.pdf>. 2.2.1
- [285] J. Kleinöder and M. Golm. MetaJava: An Efficient Run-Time Meta Architecture for Java. In *Proceedings of the International Workshop on Object Orientation in Operating Systems (IWOOS'96)*, Seattle, Washington, USA, October 1996. <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-96-03.pdf>. 2.2.3
- [286] J. Kleinöder and M. Golm. Transparent and Adaptable Object Replication Using a Reflective Java. Technical Report TR-I4-96-07, Friedrich-Alexander-University, Erlangen-Nürnberg, Germany, September 1996. <http://www4.informatik.uni-erlangen.de/TR/pdf/TR-I4-96-07.pdf>. 2.2.3
- [287] M. Kojo, K. Raatikainen, and T. Alanko. *Connecting Mobile Workstations to the Internet over a Digital Cellular Telephone Network*, pages 253–270. Volume 353 of Imielinski and Korth [244], February 1996. ftp://ftp.cs.helsinki.fi/pub/Reports/by_Title/Connecting_Mobile_Workstations_to_the_Internet_over_a_Digital_Cellular_Telephone_Network.ps.gz. 2.3.1
- [288] F. Kon and R. Campbell. Dependence Management in Component-Based Distributed Systems. *IEEE Concurrency*, 8(1):26–36, January–March 2000. <http://choices.cs.uiuc.edu/2k/papers/DependenceManagement-concurrency.pdf>. 2.2.3
- [289] F. Kon, R. H. Campbell, B. Srinivasan, R. Chandra, and A. Viswanathan. Dynamic Reconfiguration of Scalable Internet Systems with Mobile Agents. Technical Report UIUCDCS-R-99-2105, Department of Computer Science, University of Illinois at Urbana-Champaign, USA, March 1999. <http://choices.cs.uiuc.edu/2k/papers/TR/config-agents.ps.gz>. 2.2.3
- [290] F. Kon, B. Gill, R. H. Campbell, and M. D. Mickunas. Secure Dynamic Reconfiguration of Scalable CORBA Systems with Mobile Agents. In *Proceedings of the IEEE Joint Symposium on Agent Systems and Applications / Mobile Agents (ASA/MA'2000)*, volume 1882 of *Lecture Notes in Computer Science*, pages 86–98. Springer Verlag, Zürich, Switzerland, September 2000. <http://choices.cs.uiuc.edu/2k/papers/asama2000.pdf>. 2.2.3

- [291] F. Kon and A. Mandel. SODA: A Lease-Based Consistent Distributed File System. In *Proceedings of the 13th Brazilian Symposium on Computer Networks*, Belo Horizonte, Brazil, May 1995. <ftp://ftp.ime.usp.br/pub/reports/comp/rt-mac-9303.ps.gz>. 2.2.1, 2.3.1
- [292] F. Kon, M. Román, P. Liu, J. Mao, T. Yamane, L. C. Magalhães, and R. H. Campbell. Monitoring, Security, and Dynamic Configuration with the dynamicTAO Reflective ORB. In *Proceedings of the IFIP/ACM International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'2000)*, pages 121–143, New York, USA, April 2000. <http://choices.cs.uiuc.edu/2k/papers/middleware2000.pdf>. 2.2.3
- [293] O. Koskimies and K. E. E. Raatikainen. Partitioning Applications with Agents. In *Mobile Agents for Telecommunication Applications, Second International Workshop (MATA'2000)*, volume 1931 of *Lecture Notes in Computer Science*, pages 79–94. Springer Verlag, Paris, France, September 2000. <http://www.cs.helsinki.fi/research/monads/papers/mata00/mata00.pdf>. 2.3.2
- [294] D. Kotz and R. S. Gray. Mobile Agents and the Future of the Internet. *Operating Systems Review*, 33(3):7–13, July 1999. <ftp://ftp.cs.dartmouth.edu/pub/kotz/papers/kotz:future2.pdf>. 2.3.2
- [295] D. Kotz, R. S. Gray, and D. Rus. Future Directions for Mobile-Agent Research. Technical Report TR2002-415, Department of Computer Science, Dartmouth College, Hanover, New Hampshire, USA, January 2002. <ftp://ftp.cs.dartmouth.edu/TR/TR2002-415.pdf>. 2.3.2
- [296] U. Kubach and K. Rothermel. Exploiting Location Information for Infostation-Based Hoarding. In *Proceedings of the 7th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'2001)*, pages 15–27, Rome, Italy, July 2001. <http://www.informatik.uni-stuttgart.de/ipvr/vs/Publications/2001-kubach-02.pdf>. 2.3.1
- [297] G. H. Kuenning. *Seer: Predictive File Hoarding for Disconnected Mobile Operation*. PhD thesis, University of California, Los Angeles, California, USA, May 1997. ftp://ftp.cs.ucla.edu/pub/ficus/geoff/kuening_dissertation.ps.gz. 2.3.1
- [298] G. H. Kuenning and G. J. Popek. Automated Hoarding for Mobile Computers. In *Proceedings of the 16th ACM Symposium on Operating Systems Principles (SOSP'16)*, pages 264–275, Saint-Malo, France, October 1997. <ftp://ftp.cs.ucla.edu/pub/ficus/geoff/sosp97.ps.gz>. 2.3.1, 2.3.1
- [299] G. H. Kuenning, P. Reiher, and G. J. Popek. Experience with an Automated Hoarding System. *Personal Technologies*, 1(3):145–155, September 1997. <ftp://ftp.cs.ucla.edu/pub/ficus/geoff/perstech97.ps.gz>. 2.3.1
- [300] P. Kumar and M. Satyanarayanan. Flexible and Safe Resolution of File Conflicts. In *Proceedings of the USENIX Winter 1995 Technical Conference*, pages 95–106, New Orleans, Louisiana, USA, January 1995. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/usenix95.pdf>. 2.2.1, 2.3.1, 2.3.1
- [301] F. Laforest and F. Le Mouél, editors. *Adaptation et gestion du contexte*, volume 11 of *Networking and Information Systems / Ingénierie des Systèmes d'Information (ISI)*. Hermès, October 2006. Special edition. 1.1
- [302] B. Lampson. Designing a Global Name Service. In *Proceedings of the 5th Annual ACM Symposium on Principles of Distributed Computing (PODC'86)*, pages 1–10, Calgary, Alberta, Canada, August 1986. <http://research.microsoft.com/~lampson/36-globalnames/Acrobat.pdf>. 2.3.2
- [303] M. T. Le, S. Seshan, F. Burghardt, and J. Rabaey. Software Architecture of the Infopad System. In *Proceedings of the Mobidata Workshop on Mobile and Wireless Information Systems*, Rutgers, New Jersey, USA, November 1994. http://bwrc.eecs.berkeley.edu/Publications/1994/Presentations/infopad_software_arch.mobidata/infopad_software_arch.mobidata.ps.gz. 2.3.2

- [304] F. Le Mouël. Amélioration du niveau de service par la distribution adaptative d'applications dans un environnement mobile. In *Journée Jeunes Chercheurs en Systèmes (JCS'1999)*, dans les actes de la 1ère Conférence Française sur les Systèmes d'Exploitation (CFSE'1), pages 229–232, Rennes, France, June 1999. [1.1.2](#)
- [305] F. Le Mouël. *Environnement adaptatif d'exécution distribuée d'applications dans un contexte mobile*. PhD thesis, Université de Rennes 1, Rennes, France, December 2003. [\(document\)](#), [1.1.2](#)
- [306] F. Le Mouël. Calendrier prévisionnel du déroulement d'une thèse, June 2004. version 1.2. [1.3](#)
- [307] F. Le Mouël. *Complexité du logiciel ambiant : de la composition dynamique à l'exécution distribuée, contextuelle, autonome et large-échelle*. Habilitation à diriger des recherches (HDR), Université de Lyon, INSA Lyon & Université Claude Bernard Lyon 1, Lyon, France, November 2016. [\(document\)](#)
- [308] F. Le Mouël and F. André. AeDEn: un cadre général pour une distribution adaptative et dynamique des applications en environnements mobiles. In *Proceedings of the 3rd International Conference on New Technologies in Distributed Systems (NOTERE'2000)*, pages 171–182, Paris, France, November 2000. [1.1.2](#)
- [309] F. Le Mouël and F. André. Distribution over Mobile Environments. In *Proceedings of 2000 ACM Symposium on Applied Computing (SAC'2000)*, volume 2, pages 568–569, Villa Olmo, Como, Italy, March 2000. [1.1.2](#)
- [310] F. Le Mouël and F. André. AeDEn: un cadre général pour une distribution adaptative et dynamique des applications en environnements mobiles. *Electronic Journal on Networks and Distributed Processing / Revue Électronique sur les Réseaux et l'Informatique Répartie (EJNDP/RERIR)*, 11:169–181, March 2001. [1.1.2](#)
- [311] F. Le Mouël, F. André, and M.T. Segarra. AeDEn: An Adaptive Framework for Dynamic Distribution over Mobile Environments. *Annals of Telecommunications*, 57(11–12):1124–1148, November 2002. [1.1.2](#)
- [312] F. Le Mouël and S. Frénot, editors. *Proceedings of the 1st IEEE International Workshop on Services Integration in Pervasive Environments (SIPE'2006)*, Lyon, France, June 2006. IEEE Press. [1.1.4](#)
- [313] F. Le Mouël and S. Frénot, editors. *Proceedings of the 2nd IEEE International Workshop on Services Integration in Pervasive Environments (SIPE'2007)*, Istanbul, Turkey, July 2007. IEEE Press. [1.1.4](#)
- [314] F. Le Mouël and S. Frénot, editors. *Proceedings of the 3rd ACM International Workshop on Services Integration in Pervasive Environments (SIPE'2008)*, Sorrento, Italy, July 2008. ACM Press. [1.1.4](#)
- [315] F. Le Mouël, C.B. Hernández, O. Carrillo, and G. Pedraza. Services décentralisés, robustes et efficaces pour une gestion autonome et temp-réel de situations d'urgences urbaines. In *Actes du Colloque international interdisciplinaire Colombie-France « La Ville-Région durable comme projet : défis actuels. Regards croisés et perspectives »*, Bogota, Colombia, March 2017. [1.1.12](#)
- [316] F. Le Mouël, N. Ibrahim, and S. Frénot. Interface Matching and Combining Techniques for Services Integration. In *Proceedings of the 3er Congreso Nacional de Ciencias de la Computacion (CNCC'2005)*, FCC-BUAP, Puebla, Mexico, November 2005. [1.1.3](#)
- [317] F. Le Mouël, N. Ibrahim, Y. Royon, and S. Frénot. Semantic Deployment of Services in Pervasive Environments. In *Proceedings of the 1st International Workshop on Requirements and Solutions for Pervasive Software Infrastructures (RSPSI'2006) in conjunction with the Pervasive'2006 Conference*, Dublin, Ireland, May 2006. [1.1.4](#)

- [318] F. Le Mouël, M.T. Segarra, and F. André. Improving Mobile Computing Performance by Using an Adaptive Distribution Framework. In *Proceedings of 7th International Conference on High Performance Computing (HiPC'2000)*, volume 1970 of *Lecture Notes in Computer Science*, pages 479–488. Springer Verlag, Bangalore, India, December 2000. [1.1.2](#)
- [319] M.-A. Lèbre, F. Le Mouël, and E. Ménard. Modèle multi-échelles pour les services dans les VANET. In *Journées Nationales des Communications dans les Transports (JNCT'2013)*, Nevers, France, May 2013. Poster. [1.1.8](#), [1.2.7](#)
- [320] M.-A. Lèbre, F. Le Mouël, and E. Ménard. Microscopic vehicular mobility trace of Europarc roundabout, Creteil, France, April 2015. Open data trace, v1.0, Creative Commons Attribution-NonCommercial 4.0 International License. [1.1.8](#), [1.2.7](#)
- [321] M.-A. Lèbre, F. Le Mouël, and E. Ménard. On the Importance of Real Data for Microscopic Urban Vehicular Mobility Trace. In *Proceedings of the 14th International Conference on ITS Telecommunications (ITST'2015)*, pages 22–26, Copenhagen, Denmark, December 2015. [1.1.8](#), [1.2.7](#)
- [322] M.-A. Lèbre, F. Le Mouël, and E. Ménard. Partial and Local Knowledge for Global Efficiency of Urban Vehicular Traffic. In *Proceedings of the IEEE 82nd Vehicular Technology Conference (VTC'2015-Fall)*, pages 1–5, Boston, MA, USA, September 2015. [1.1.8](#), [1.2.7](#)
- [323] M.-A. Lèbre, F. Le Mouël, and E. Ménard. Resilient, Decentralized V2V Online Stop-Free Strategy in a Complex Roundabout. In *Proceedings of the IEEE 83rd Vehicular Technology Conference (VTC'2016-Spring)*, pages 1–5, Nanjing, China, May 2016. [1.1.8](#), [1.2.7](#)
- [324] M.-A. Lèbre, F. Le Mouël, E. Ménard, J. Dillschneider, and R. Denis. VANET Applications: Hot Use Cases. Research report, INRIA CITI Laboratory, INSA Lyon, July 2014. [1.1.8](#), [1.2.7](#)
- [325] M.-A. Lèbre, F. Le Mouël, E. Ménard, A. Garnault, B. Bradaï, and V. Picon. Real scenario and simulations on GLOSA traffic light system for reduced CO2 emissions, waiting time and travel time. In *Proceedings of the 22th Intelligent Transport Systems and Services World Congress (ITS World Congress'2015)*, Bordeaux, France, October 2015. [1.1.8](#), [1.2.7](#)
- [326] T. Ledoux. OpenCorba: a Reflective Open Broker. In *Proceedings of the 2nd International Conference on Meta-level Architectures and Reflection (Reflection'99)*, volume 1616 of *Lecture Notes in Computer Science*, pages 197–214. Springer Verlag, Saint-Malo, France, July 1999. <http://www.emn.fr/cs/object/biblio/publications/reflection99.pdf.gz>. [2.2.3](#)
- [327] T. Ledoux and al. État de l’art sur l’adaptabilité. Délivrable 1.1, Projet RNTL ARCAD, December 2001. [1.2.3](#)
- [328] T. J. Lehman, S. W. McLaughry, and P. Wyckoff. T Spaces: The Next Wave. In *Proceedings of the 32nd Hawaii International Conference on System Sciences (HICSS'99)*, Island of Maui, Hawaii, USA, January 1999. <http://www.almaden.ibm.com/cs/Tspaces/papers/Cluster.ps.Z>. [2.3.2](#)
- [329] H. Lei and D. Duchamp. An Analytical Approach to File Prefetching. In *Proceedings of the USENIX 1997 Annual Technical Conference*, pages 275–288, Anaheim, California, USA, January 1997. <http://guinness.cs.stevens-tech.edu/~djd/collected-papers/usenix97-prefetch.ps>. [2.3.1](#)
- [330] R. Lenglet. Jabyce: A Java Framework for Bytecode Adaptation. Présentation réunion ARCAD, May 2002. <http://arcad.essi.fr/020524/Jabyce-2002-05-23.ppt>. [2.2.3](#), [3.2](#)
- [331] C. Lévy-Bencheton and F. Le Mouël. Trust protocol integrating services’ semantics. In *Proceedings of the 4th Workshop for Ubiquitous Networking and Enablers to Context-Aware Services (Ubiq NW) in conjunction with the 4th International Symposium on Ubiquitous Computing Systems (UCS 2007)*, Akihabara, Tokyo, Japan, November 2007. [1.1.14](#), [1.2.4](#)

- [332] M. Liljeberg, H. Helin, M. Kojo, and K. Raatikainen. Enhanced Services for World-Wide Web in Mobile WAN Environment. In *Proceedings of the IEEE Global Internet 1996 Conference*, London, England, November 1996. ftp://ftp.cs.helsinki.fi/pub/Reports/by_Title/Enhanced_Services_for_World-Wide_Web_in_Mobile_WAN_Environment.ps.gz. 2.3.1
- [333] T. Lin, F. Le Mouël, and H. Rivano. Smart On-Street Parking Assistance System. In *Journées Systèmes Embarqués (Semba'2013)*, Saint Germain au Mont d'Or, France, April 2013. Poster. 1.1.10, 1.2.5
- [334] T. Lin, F. Le Mouël, and H. Rivano. Crowdsourcing Continuous Location-Aware Update Service for Parking Assistance. In *Journées ResCom'2015*, Paris, France, January 2015. 1.1.10, 1.2.5
- [335] T. Lin, H. Rivano, and F. Le Mouël. How to Choose the Relevant MAC Protocol for Wireless Smart Parking Urban Networks? In *Proceedings of the 11th ACM Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN'2014)*, pages 1–8, Montreal, QC, Canada, September 2014. 1.1.10, 1.2.5, 1.2.6
- [336] T. Lin, H. Rivano, and F. Le Mouël. Performance Comparison of Contention- and Schedule-based MAC Protocols in Urban Parking Sensor Networks. In *Proceedings of the ACM International Workshop on Wireless and Mobile Technologies for Smart Cities (WiMobCity'2014) in conjunction with the 15th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc'2014)*, pages 39–48, Philadelphia, Pennsylvania, USA, August 2014. 1.1.10, 1.2.5, 1.2.6
- [337] T. Lin, H. Rivano, and F. Le Mouël. Router Deployment of Streetside Parking Sensor Networks in Urban Areas. In *Proceedings of the Symposium "Towards integrated modelling of urban systems"*, Lyon, France, October 2014. 1.1.10, 1.2.5
- [338] T. Lin, H. Rivano, and F. Le Mouël. Traffic Modeling and Analysis in the Performance of Parking Sensor Networks. Research Report RR-8480, INRIA, February 2014. 1.1.10, 1.2.5
- [339] T. Lin, H. Rivano, and F. Le Mouël. Urban Infrastructure Deployment for Wireless On-Street Parking Sensor Networks. *Procedia Engineering*, 115:29–36, August 2015. 1.1.10, 1.2.5
- [340] T. Lin, H. Rivano, and F. Le Mouël. A Survey of Smart Parking Solutions. *IEEE Transactions on Intelligent Transportation Systems*, 18(12):3229–3253, 2017. 1.1.10
- [341] Linux on Laptops. *Running Linux on Palmtops*. <http://www.linux-laptop.net/palmtops.html>. 2.1.3
- [342] M. J. Litzkow and M. Livny. Experience With The Condor Distributed Batch System. In *Proceedings of the IEEE Workshop on Experimental Distributed Systems*, pages 97–101, Huntsville, Alabama, USA, October 1990. <http://www.cs.wisc.edu/condor/doc/experience.ps>. 2.3.2
- [343] C. Liu, J. Cao, and F. Le Mouël. A Low-Latency Service Composition Approach in Mobile Ad Hoc Networks. In *Proceedings of the 29th Annual ACM Symposium on Applied Computing (SAC'2014)*, pages 509–511, Gyeongju, Republic of Korea, March 2014. 1.1.4, 1.2.6
- [344] G. Liu, A. Marlevi, and G. Q. Maguire Jr. A Mobile Virtual-Distributed System Architecture for Supporting Wireless Mobile Computing and Communications. In *Proceedings of the 1st Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'95)*, pages 111–118, Berkeley, California, USA, November 1995. <http://citeseer.nj.nec.com/liu95virtual.html>. 2.3.1
- [345] S. Long, R. Kooper, G. D. Abowd, and C. G. Atkeson. Rapid Prototyping of Mobile Context-Aware Applications: The Cyberguide Case Study. In *Proceedings of the 2nd Annual International Conference on Mobile Computing and Networking (MobiCom'96)*, pages 97–107, Rye, New York, USA, November 1996. <http://www.cc.gatech.edu/fce/cyberguide/pubs/mobicom96-cyberguide.ps>. 2.3.1

- [346] J. C. S. Lui, O. K. Y. So, and T. S. Tam. NFS/M: An Open Platform Mobile File System. In *Proceedings of the 18th International Conference on Distributed Computing Systems (ICDCS'98)*, pages 488–495, Amsterdam, The Netherlands, May 1998. <http://citeseer.nj.nec.com/197687.html>. 2.2.1
- [347] P. Maes. *Issues in Computational Reflection*, pages 21–35. In Maes and Nardi [348], 1988. <http://www.elsevier.nl>. 2.2.3
- [348] P. Maes and D. Nardi, editors. *Meta-Level Architectures and Reflection*. North-Holland, 1988. <http://www.elsevier.nl>. 2.2.3, 347
- [349] B. Maingret, F. Le Mouël, J. Ponge, N. Stouls, J. Cao, and Y. Loiseau. Towards a Decoupled Context-Oriented Programming Language for the Internet of Things. In *Proceedings of the 7th International Workshop on Context-Oriented Programming (COP'2015) in conjunction with the European Conference on Object-Oriented Programming (ECOOP'2015)*, Prague, Czech Republic, July 2015. 1.1.1
- [350] M. Makpangou, Y. Gourhant, J.-P. Le Narzul, and M. Shapiro. Fragmented Objects for Distributed Abstractions. In *Readings in Distributed Computing Systems*, pages 170–186. IEEE Computer Society Press, July 1994. ftp://ftp.inria.fr/INRIA/Projects/SOR/papers/1992/FO_ieeebook92.ps.gz. 2.3.2
- [351] J. Mao. Monitoring and Analyzing Method Invocations in the 2K Operating System. Master's thesis, Department of Computer Science, University of Illinois at Urbana-Champaign, May 1999. <http://choices.cs.uiuc.edu/2k/papers/MS-monitoring.ps.gz>. 2.2.3
- [352] M. Mathis, J. Mahdavi, S. Floyd, and A. Romanow. TCP Selective Acknowledgement Options. Request For Comments (RFC) 2018, October 1996. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2018.txt>. 2.2.1
- [353] F. Mattern and P. Sturm. From Distributed Systems to Ubiquitous Computing - The State of the Art, Trends, and Prospects of Future Networked Systems. In *Proceedings of KiVS 2003*, pages 3–25, Leipzig, Deutschland, February 2003. <http://www.inf.ethz.ch/vs/publ/papers/DisSysUbiComp.pdf>. 2.3.2
- [354] C. Mayers. Writing Distributed Applications using ANSA and ANSAware 4.1. Training course, September 1995. <http://www.ansa.co.uk/ANSATech/95/Primary/12610002.pdf>. 2.2.2
- [355] Microsoft Corporation. *Windows Embedded Operating Systems Home Page*. <http://www.microsoft.com/windows/embedded/>. 2.1.3
- [356] Microsoft Corporation. *Universal Plug and Play Device Architecture*, June 2000. statut : « version 1.0 », http://www.upnp.org/download/UPnPDA10_20000613.htm. 2.3.2
- [357] Microsoft Corporation. *Windows .NET Server Family Beta 3 – Technical Overview*, November 2001. <http://www.microsoft.com/windows/netserver/docs/TechOverview.doc>. 2.3.2
- [358] Microsoft Corporation. *The .NET Compact Framework – Overview*, April 2002. <http://msdn.microsoft.com/vstudio/device/compactfx.asp>. 2.3.2
- [359] R. Moats. URN Syntax. Request For Comments (RFC) 2141, May 1997. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2141.txt>. 2.3.2
- [360] Mobile Agent Community. *The Mobile Agent List*. <http://mole.informatik.uni-stuttgart.de/mal/mal.html>. 2.3.2
- [361] P. Mockapetris. Domain Names – Concepts and Facilities. Standard (STD) 0013, Request For Comments (RFC) 1034, November 1987. <ftp://ftp.isi.edu/in-notes/std/std13.txt>. 2.3.2
- [362] P. Mockapetris. Domain Names – Implementation and Specification. Standard (STD) 0013, Request For Comments (RFC) 1035, November 1987. <ftp://ftp.isi.edu/in-notes/rfc1035.txt>. 2.3.2

- [363] G. Montenegro. Reverse Tunneling for Mobile IP, revised. Request For Comments (RFC) 3024, January 2001. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc3024.txt>. 2.2.2
- [364] L. B. Mummert, M. Ebling, and M. Satyanarayanan. Exploiting Weak Connectivity for Mobile File Access. In *Proceedings of the 15th ACM Symposium on Operating System Principles (SOSP'95)*, pages 143–155, Copper Mountain Resort, Colorado, USA, December 1995. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/s15.pdf>. 2.2.1, 2.3.1, 2.3.1
- [365] A. L. Murphy, G. P. Picco, and G.-C. Roman. Lime: A Middleware for Physical and Logical Mobility. Technical Report WUCS-00-05, Washington University, St. Louis, Missouri, USA, February 2000. <http://www.elet.polimi.it/Users/DEI/Sections/Compeng/GianPietro.Picco/papers/wucs0005.ps.gz>. 2.3.2, 366
- [366] A. L. Murphy, G. P. Picco, and G.-C. Roman. Lime: A Middleware for Physical and Logical Mobility. In *Proceedings of the 22nd International Conference on Distributed Computing Systems (ICDCS'2001)*, pages 524–533, Mesa, Arizona, USA, April 2001. publié aussi en version longue dans [365], <http://www.cs.rochester.edu/u/murphy/papers/icdcs01.pdf>. 2.3.2
- [367] Myricom. *Home Page*. <http://www.myri.com>. 2.1.2
- [368] R. Namyst and J.-F. Méhaut. PM^2 : Parallel Multithreaded Machine. A Computing Environment for Distributed Architectures. In *Parallel Computing: State-of-the-Art and Perspectives, Proceedings of the Conference ParCo'95, Septembre 1995, Ghent, Belgium*, volume 11 of *Advances in Parallel Computing*, pages 279–285. Elsevier, North-Holland, Amsterdam, February 1996. <http://www.ens-lyon.fr/~rnamyst/ps/survey.ps>. 2.3.2
- [369] T. Nandagopal, T. Kim, P. Sinha, and V. Bharghavan. Service Differentiation Through End-to-End Rate Control in Low Bandwidth Wireless Packet Networks. In *Proceedings of the 6th IEEE International Workshop on Mobile Multimedia Communications (MOMUC'99)*, San Diego, California, USA, November 1999. <http://timely.crhc.uiuc.edu/Papers/momuc99.wtcp.ps.gz>. 2.2.1
- [370] Napster. *Home Page*. <http://www.napster.com>. 2.3.2
- [371] P. Nee, K. Jeffay, and G. Danneels. The Performance of Two-Dimensional Media Scaling for Internet Videoconferencing. In *Proceedings of the 7th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'97)*, St. Louis, Missouri, USA, May 1997. <http://www.cs.unc.edu/~jeffay/papers/NOSSDAV-97.pdf>. 2.3.2
- [372] H. Nielsen, P. Leach, and S. Lawrence. An HTTP Extension Framework. Request For Comments (RFC) 2774, February 2000. statut : « Experimental », <ftp://ftp.isi.edu/in-notes/rfc2774.txt>. 2.2.1
- [373] H. Nielsen, M. Spreitzer, B. Janssen, and J. Gettys. HTTP-NG Overview Problem Statement, Requirements, and Solution Outline. Internet-Draft, November 1998. statut : « expire le 17 mai 1999 », <http://www.w3.org/Protocols/HTTP-NG/1998/11/draft-frstykyk-httpng-overview-00.txt>. 2.2.1
- [374] B. Noble. System Support for Mobile, Adaptive Applications. *IEEE Personal Computing Systems*, 7(1):44–49, February 2000. <http://www-2.cs.cmu.edu/afs/cs/project/coda/Web/docdir/ieeepcs00.pdf>. 2.2.2
- [375] B. Noble, M. Price, and M. Satyanarayanan. A Programming Interface for Application-Aware Adaptation in Mobile Computing. In *Proceedings of the 2nd USENIX Symposium on Mobile & Location-Independent Computing*, pages 57–66, Ann Arbor, Michigan, USA, April 1995. <http://www-2.cs.cmu.edu/afs/cs/project/coda/Web/docdir/mobile95.pdf>. 2.2.2

- [376] B. Noble and M. Satyanarayanan. An Empirical Study of a Highly Available File System. In *Proceedings of the 1994 ACM SIGMETRICS Conference on Measurement and Modeling of Computer Systems*, pages 138–149, Vanderbilt University, Nashville, Tennessee, USA, May 1994. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/sigm94-coda.pdf>. 2.3.1
- [377] B. Noble and M. Satyanarayanan. Experience with Adaptive Mobile Applications in Odyssey. *Mobile Networks and Applications (MONET)*, 4(4):245–254, 1999. <http://www-2.cs.cmu.edu/afs/cs/project/coda/Web/docdir/monet98-kluwer.pdf>. 2.2.2
- [378] B. Noble, M. Satyanarayanan, J. E. Tilton, J. Flinn, and K. R. Walker. Agile Application-Aware Adaptation for Mobility. In *Proceedings of the 16th ACM Symposium on Operating Systems Principles (SOSP'16)*, Saint-Malo, France, October 1997. <http://www-2.cs.cmu.edu/afs/cs/project/coda/Web/docdir/s16.pdf>. 2.2.2
- [379] P. Obermeyer and J. Hawkins. *Microsoft .NET Remoting: A Technical Overview*, July 2001. <http://www.microsoft.com/serviceproviders/whitepapers/xml.asp>. 2.3.2
- [380] Object Management Group. *CORBA Trading Object Service Specification*, May 2000. statut : « Version 1.0 », <http://cgi.omg.org/docs/formal/00-06-27.pdf>. 2.3.2
- [381] Object Management Group. *Mobile Agent Facility Specification*, January 2000. statut : « Version 1.0 », <http://www.omg.org/docs/formal/00-01-02.pdf>. 2.3.2
- [382] Object Management Group. *Common Object Request Broker Architecture (CORBA/IIOP)*, December 2002. statut : « Version 3.0.2 », <http://www.omg.org/docs/formal/02-12-02.pdf>. 2.3.2
- [383] Object Management Group. *CORBA Naming Service Specification*, September 2002. statut : « Version 1.2 », <http://www.omg.org/docs/formal/02-09-02.pdf>. 2.3.2
- [384] Object Management Group. *Unified Modeling Language*, March 2003. statut : « Version 1.5 », <http://www.omg.org/docs/formal/03-03-01.pdf>. 3.2
- [385] Object Management Group. *Wireless Access & Terminal Mobility in CORBA*, March 2003. statut : « Version 1.0 », <http://www.omg.org/docs/formal/03-03-64.pdf>. 2.3.2
- [386] H. Okamura and Y. Ishikawa. Object Location Control Using Meta-level Programming. In *Proceedings of the 8th European Conference on Object-Oriented Programming (ECOOP'94)*, volume 821 of *Lecture Notes in Computer Science*, pages 299–319. Springer Verlag, Bologna, Italy, July 1994. <http://www.csl.sony.co.jp/person/okamura/papers/okamura-ecoop94.pdf>. 2.2.3
- [387] A. Olivia and L. E. Buzato. Composition of Meta-Objects in Guaraná. In *Proceedings of the 13th ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA'98)*, pages 82–86, Vancouver, Canada, October 1998. <http://www.dcc.unicamp.br/~oliva/guarana/docs/composition.ps.gz>. 2.2.3
- [388] A. Olivia and L. E. Buzato. The Design and Implementation of Guaraná. In *Proceedings of the 5th USENIX Conference on Object-Oriented Technologies and Systems (COOTS'99)*, pages 203–216, San Diego, California, USA, May 1999. <http://www.dcc.unicamp.br/~oliva/guarana/docs/desimpl.ps.gz>. 2.2.3
- [389] A. Olivia, I. C. Garcia, and L. E. Buzato. The Reflective Architecture of Guaraná. Technical Report IC-98-14, Universidade Estadual de Campinas, Brazil, April 1998. <http://www.dcc.unicamp.br/~oliva/guarana/docs/design.ps.gz>. 2.2.3
- [390] A. Omicini and F. Zambonelli. Coordination of Mobile Information Agents in TuCSon. *Internet Research*, 8(5):400–413, 1998. <http://sirio.dsi.unimo.it/Zambonelli/PDF/iis98.pdf>. 2.3.2
- [391] Orinoco. *Home Page*. <http://www.orinocowireless.com>. 2.1.2

- [392] V. N. Padmanabhan and J. C. Mogul. Using Predictive Prefetching to Improve World Wide Web Latency. *ACM SIGCOMM Computer Communication Review*, 26(3), July 1996. <http://www.acm.org/sigcomm/ccr/archive/1996/jul96/ccr-9607-mogul-padmanabhan.pdf>. 2.3.1
- [393] A. Paepcke. PCLOS Reference Manual. Technical Report HPL-91-182, Hewlett-Packard Laboratories, November 1991. <http://www-diglib.stanford.edu/~paepcke/shared-documents/pclos-manual.ps>. 2.2.3
- [394] T. W. Page, R. G. Guy, J. S. Heidemann, D. Ratner, P. L. Reiher, A. Goel, G. H. Kuenning, and G. J. Popek. Perspectives on Optimistically Replicated, Peer-to-Peer Filing. *Software – Practice and Experience*, 28(2):155–180, February 1998. <http://fmg-www.cs.ucla.edu/ficus/publications/spe98.ps>. 2.3.1
- [395] Palm. *Home Page*. <http://www.palm.com>. 2.1.1
- [396] R. H. Patterson, G. A. Gibson, E. Ginting, D. Stodolsky, and J. Zelenka. Informed Prefetching and Caching. In *Proceedings of the 15th ACM Symposium on Operating System Principles (SOSP'95)*, pages 79–95, Copper Mountain Resort, Colorado, USA, December 1995. <http://reports-archive.adm.cs.cmu.edu/anon/1995/CMU-CS-95-134R.ps>. 2.3.1
- [397] H. Peine and T. Stolpmann. The Architecture of the Ara Platform for Mobile Agents. In *Proceedings of Mobile Agents, 1st International Workshop (MA'97)*, volume 1219 of *Lecture Notes in Computer Science*, pages 50–61. Springer Verlag, Berlin, Germany, April 1997. <http://www.wagss.informatik.uni-kl.de/Projekte/Ara/Doc/architecture.ps.gz>. 2.3.2
- [398] A. Pennarun. *The Linux APM Daemon – Home Page*. Net Integration Technologies (NITI). <http://www.worldvisions.ca/~apenwarr/apmd/>. 2.3.2
- [399] C. Perkins and D. B. Johnson. Route Optimization in Mobile IP. Internet-Draft, September 2001. statut : « expire le 6 mars 2002 », <http://www.ietf.org/internet-drafts/draft-ietf-mobileip-optim-11.txt>. 2.2.2
- [400] C. Perkins, D. B. Johnson, and J. Arkko. Mobility Support in IPv6. Internet-Draft, May 2003. statut : « expire le 24 novembre 2003 », <http://www.ietf.org/internet-drafts/draft-ietf-mobileip-ipv6-22.txt>. 2.2.1
- [401] C. Perkins, A. Myles, and D. B. Johnson. IMHP: A Mobile Host Protocol for the Internet. *Computer Networks and ISDN Systems*, 27(3):479–491, December 1994. <http://www.cs.cmu.edu/afs/cs.cmu.edu/user/dbj/www/ftp/mobile/comnet94.ps>. 2.2.1
- [402] Personal Computer Memory Card International Association PCMCIA. *Home Page*. <http://www.pcmcia.org>. 2.1.1
- [403] K. Petersen, M. J. Spreitzer, D. B. Terry, and M. M. Theimer. Bayou: Replicated Database Services for World-wide Applications. In *Proceedings of the 7th ACM SIGOPS European Workshop (EuroSIGOPS'96)*, pages 275–280, Connemara, Ireland, September 1996. <http://www2.parc.com/csl/projects/bayou/pubs/eurosigops-96/ScalableBayou.ps>. 2.3.1
- [404] K. Petersen, M. J. Spreitzer, D. B. Terry, M. M. Theimer, and A. J. Demers. Flexible Update Propagation for Weakly Consistent Replication. In *Proceedings of the 16th ACM Symposium on Operating Systems Principles (SOSP'16)*, pages 288–301, Saint-Malo, France, October 1997. <http://www2.parc.com/csl/projects/bayou/pubs/sosp-97/AE.ps.gz>. 2.3.1
- [405] G. P. Picco, A. L. Murphy, and G.-C. Roman. Lime: Linda Meets Mobility. In *Proceedings of the 21st International Conference on Software Engineering (ICSE'99)*, pages 368–377, Los Angeles, California, USA, May 1999. <http://www.cs.rochester.edu/u/murphy/papers/icse99.pdf>. 2.3.2
- [406] G. P. Picco, A. L. Murphy, and G.-C. Roman. Developing Mobile Computing Applications with Lime. In *Proceedings of the 22nd International Conference on Software Engineering (ICSE'2000)*, pages 766–769, Limerick, Ireland, June 2000. <http://www.cs.rochester.edu/u/murphy/papers/icse00demo.pdf>. 2.3.2

- [407] P. Poizat, J.-C. Royer, and G. Salaün. Formal Methods for Component Description, Coordination and Adaptation. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/11_poizat_royer_salaun.pdf. 3.2.1
- [408] J. Ponge and F. Le Mouël. Jooflux, September 2012. 1.1.1
- [409] J. Ponge and F. Le Mouël. JooFlux: Hijacking Java 7 InvokeDynamic To Support Live Code Modifications. Research report, INRIA CITI Lab, INSA Lyon, October 2012. 1.1.1
- [410] J. Ponge and F. Le Mouël. Manipulation de bytecode : démocratisons la magie noire ! In *1ère Conférence Française pour les Développeurs (Devoxx France'2012)*, Paris, France, April 2012. 1.1.1
- [411] J. Ponge and F. Le Mouël. Manipulation de bytecode : démocratisons la magie noire ! In *Mix-It "Java, Agilité, Web, Innovations"*, Lyon, France, April 2012. 1.1.1
- [412] J. Ponge and F. Le Mouël. JooFlux : modification de code à chaud et injection d'aspects directement dans une JVM 7. In *Actes de la Conférence d'informatique en Parallélisme, Architecture et Systèmes (ComPAS'2013) - Conférence Française en Systèmes d'Exploitation (CFSE'9)*, Grenoble, France, January 2013. 1.1.1
- [413] J. Ponge, F. Le Mouël, and N. Stouls. Golo, a dynamic, light and efficient language for post-invokedynamic JVM. In *Proceedings of the 11th International Conference on Principles and Practice of Programming in Java (PPPJ'2013)*, pages 153–158, Stuttgart, Germany, September 2013. 1.1.1
- [414] J. Ponge, F. Le Mouël, N. Stouls, and Y. Loiseau. Opportunities for a Truffle-based Golo Interpreter. Technical report, CITI - CITI Centre of Innovation in Telecommunications and Integration of services, April 2015. 1.1.1
- [415] J. Ponge, Y. Loiseau, F. Le Mouël, N. Stouls, P. Charrière, D. Petisme, S. Desgrais, and F. Verrot. Eclipse Golo. *The Journal of Open Source Software*, 1(8), December 2016. 1.1.1
- [416] J. Postel. Transmission Control Protocol. Standard (STD) 0007, Request For Comments (RFC) 793, September 1981. statut : « Standard », <ftp://ftp.isi.edu/in-notes/std/std7.txt>. 2.2.1
- [417] W. Pree. Essential Framework Design Patterns. *Object Magazine*, 7(1):34–37, March 1997. <http://www.exciton.cs.rice.edu/comp410/frameworks/Pree/J008.pdf>. 3.2
- [418] Proxim. *Home Page*. <http://www.proxim.com>. 2.1.2
- [419] Psion. *Home Page*. <http://www.pSION.com>. 2.1.1
- [420] S. Qian, J. Cao, F. Le Mouël, M. Li, and J. Wang. Towards Prioritized Event Matching in a Content-based Publish/Subscribe System. In *Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems (DEBS'2015)*, pages 116–127, Oslo, Norway, June 2015. 1.1, 1.1.3, 1.2.6
- [421] S. Qian, J. Cao, F. Le Mouël, I. Sahel, and M. Li. SCRAM: A Sharing Considered Route Assignment Mechanism for Fair Taxi Route Recommendations. In *Proceedings of the 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'2015)*, pages 955–964, Sydney, Australia, August 2015. 1.1.10, 1.2.6
- [422] V. Quéma, L. Bellissard, and P. Laumay. Application-Driven Customization of Message-Oriented Middleware for Consumer Devices. In *Proceedings of the Workshop on Software Infrastructures for Component-Based Applications on Consumer Devices, in association with the 6th International Enterprise Distributed Object Computing Conference (EDOC'2002)*, Lausanne, Switzerland, September 2002. <http://sardes.inrialpes.fr/papers/files/02-Quema-WSICBACD.ps.gz>. 3.2

- [423] K. Raatikainen, L. Hippeläinen, H. Laamanen, and M. Turunen. Monads – Adaptation Agents for Nomadic Users. In *Forum Proceedings and Who's Who of Telecom'99 / Inter@ctive'99*, Geneva, Switzerland, October 1999. <http://www.cs.helsinki.fi/research/monads/papers/telecom99/monads.pdf>. 2.3.2
- [424] K. Ramakrishnan, S. Floyd, and D. Black. The Addition of Explicit Congestion Notification (ECN) to IP. Request For Comments (RFC) 3168, September 2001. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc3168.txt>. 2.2.1
- [425] R. Ramjee, T. F. La Porta, S. Thuel, K. Varadhan, and S. Y. Wang. HAWAII: A Domain-based Approach for Supporting Mobility in Wide-Area Wireless Networks. In *Proceedings of the 7th Annual International Conference on Network Protocols (ICNP'99)*, pages 283–292, Toronto, Canada, November 1999. <http://www.bell-labs.com/user/ramjee/papers/icnp99.ps.gz>. 2.2.1
- [426] F. Ramparany, J. Pierson, T. Flury, G. Privat, A. Gérodolle, H. Natividad, F. Le Mouël, L. Réveillère, N. Georgantas, S. Ben Mokhtar, F. Tartanoglu, V. Issarny, C. Cerisara, B. Kladis, M. Gilbert, R. Mevissen, B. van der Wal, H. de Groot, M. van Hartskamp, P. van der Stok, H. Eertink, R. Poortinga, T. Broens, S. C. Martinez, J. Arribas, J. M. Miranda, G. vom Bögel, P. Kallio, J. Zhou, and J. Kantorovitche. State of the art analysis including assessment of system architectures for ambient intelligence. Deliverable 2.2, European Amigo Project, April 2005. 1.2.2
- [427] D. Ratner. Selective Replicaton: Fine-Grain Control of Replicated Files. Master's thesis, University of California, Los Angeles, California, USA, January 1995. ftp://ftp.cs.ucla.edu/pub/ficus/ucla_csd_950007.ps.gz. 2.3.1
- [428] D. Ratner, G. Popek, and P. Reiher. The Ward Model: A Scalable Replication Architecture for Mobility. In *Proceedings of the OOPSLA'96 Workshop on Object Replication and Mobile Computing (ORMC'96)*, San Jose, California, USA, October 1996. <http://fmg-www.cs.ucla.edu/ficus-members/ratner/papers/ormc96.ps.gz>. 2.3.1
- [429] D. Ratner, G. Popek, and P. Reiher. Dynamic Version Vector Maintenance. Technical Report CSD-970022, Department of Computer Science, University of California, California, USA, June 1997. <http://citeseer.nj.nec.com/ratner97dynamic.html>. 2.3.1
- [430] D. Ratner, P. L. Reiher, and G. J. Popek. Roam: A Scalable Replication System for Mobility. *Mobile Networks and Applications (MONET)*, 9(5):537–544, October 2004. http://portal.acm.org/ft_gateway.cfm?id=1027356&type=pdf&coll=GUIDE&dl=GUIDE&CFID=37646305&CFTOKEN=45611396. 2.3.1
- [431] D. Ratner, P. L. Reiher, G. J. Popek, and R. G. Guy. Peer Replication with Selective Control. In *Proceedings of the Mobile Data Access, 1st International Conference (MDA'99)*, volume 1748 of *Lecture Notes in Computer Science*, pages 169–181. Springer Verlag, Hong Kong, China, December 1999. <http://fmg-www.cs.ucla.edu/ratner/papers/mda99.ps.gz>. 2.3.1
- [432] D. Ratner, P. L. Reiher, G. J. Popek, and G. H. Kuenning. Replication Requirements in Mobile Environments. *Mobile Networks and Applications (MONET)*, 6(6):525–533, November 2001. <http://fmg-www.cs.ucla.edu/ratner/papers/dialm.ps.gz>. 2.3.1
- [433] P.-G. Raverdy, H. Van Gong, and R. Lea. DART: A Reflective Middleware for Adaptive Applications. In *Proceedings of the Workshop on Reflective Programming in C++ and Java at the 13th ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA'98)*, pages 37–40, Vancouver, Canada, October 1998. <http://www.csg.is.titech.ac.jp/~chiba/oopsla98/proc/raverdy.pdf>. 2.2.3
- [434] P.-G. Raverdy and R. Lea. DART: A Distributed Adaptive Run-Time. In *Proceedings of the IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware'98)*, The Lake District, England, September 1998. <http://www.comp.lancs.ac.uk/computing/middleware98/conference/wips/raverdy98.ps.gz>. 2.2.3

- [435] B. Redmond and V. Cahill. Iguana/J: Towards a Dynamic and Efficient Reflective Architecture for Java. In *Proceedings of the Workshop on Reflection and Meta-Level Architectures at the 14th European Conference on Object-Oriented Programming (ECOOP'2000)*, Cannes, France, June 2000. <http://www.dsg.cs.tcd.ie/~redmondb/iguanaj/Iguana-J-ECOOP2k.ps>. 2.2.3
- [436] P. Reiher, R. Guy, M. Yarvis, and A. Rudenko. Automated Planning for Open Architectures. In *Proceedings of the 3rd IEEE Conference on Open Architectures and Network Programming (OpenArch'2000)*, Tel-Aviv, Israel, March 2000. <http://lasr.cs.ucla.edu/reiher/papers/planning.pdf>. 2.3.2
- [437] P. L. Reiher, J. S. Heidemann, D. Ratner, G. Skinner, and G. J. Popek. Resolving File Conflicts in the Ficus File System. In *Proceedings of the USENIX Summer 1994 Technical Conference*, pages 183–195, Boston, Massachusetts, USA, June 1994. ftp://ftp.cs.ucla.edu/pub/ficus/usenix_summer_94_resolver.ps.gz. 2.3.1
- [438] Rogue Wave Software. *Ruple: A Loosely Coupled Architecture Ideal for the Internet – White Paper*, January 2002. <http://www.roguewave.com/developer/tac/ruple/Ruple.pdf>. 2.3.2
- [439] P. Roose, M. Dalmau, and F. Luthon. A Distributed Architecture for Cooperative and Adaptative Multimedia Applications. In *Proceedings of the 26th International Computer Software and Applications Conference (COMPSAC'2002)*, pages 444–449, Oxford, England, August 2002. <http://ahuzki.iutbayonne.univ-pau.fr/~roose/pub/articles/compsac2002.pdf>. 3.2
- [440] J. Rosenberg, H. Schulzrinne, and B. Suter. Wide Area Network Service Location. Internet-Draft, November 1997. statut : « expire en mai 1997 », <http://www.globecom.net/ietf/draft/draft-ietf-svrloc-wasrv-01.html>. 2.3.2
- [441] A. I. T. Rowstron and A. Wood. An Efficient Distributed Tuple Space Implementation for Networks of Workstations. In *Proceedings of the 2nd International Euro-Par Conference (Euro-Par'96)*, volume 1123 of *Lecture Notes in Computer Science*, pages 510–513. Springer Verlag, Lyon, France, August 1996. <http://www.cs.york.ac.uk/linda/ps/YCS270.ps.gz>. 2.3.2
- [442] Y. Royon, S. Frénot, and F. Le Mouél. Virtualization of Service Gateways in Multi-provider Environments. In *Proceedings of the 9th International SIGSOFT Symposium on Component-Based Software Engineering (CBSE'2006)*, volume 4063 of *Lecture Notes in Computer Science*, pages 385–392. Springer Verlag, Mälardalen University, Västerås, Sweden, June 2006. 1.1.4
- [443] N.K.G. Samaraweera. Non-congestion packet loss detection for TCP error recovery using wireless links. *IEE Proceedings - Communications*, 146(4):222–230, August 1999. 2.2.1
- [444] R. Sandhu, E. Coyne, H. Feinstein, and C. Youman. Role-Based Access Control Models. *IEEE Computer*, 29(2):38–47, February 1996. http://ite.gmu.edu/list/journals/computer/pdf_ver/i94rbac.pdf. 2.2.3
- [445] M. Satyanarayanan. Scalable, Secure, and Highly Available Distributed File Access. *IEEE Computer*, 23(5):9–21, May 1990. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/scalable90.pdf>. 2.2.1
- [446] M. Satyanarayanan. Fundamental Challenges in Mobile Computing. In *Proceedings of the 15th Annual ACM Symposium on Principles of Distributed Computing (PODC'96)*, pages 1–7, Philadelphia, Pennsylvania, USA, May 1996. <http://www.cs.cmu.edu/afs/cs/project/coda-www/ResearchWebPages/docdir/podc95.ps.gz>. 2
- [447] M. Satyanarayanan, J. J. Kistler, P. Kumar, M. E. Okasaki, E. H. Siegel, and D. C. Steere. Coda: A Highly Available File System for a Distributed Workstation Environment. *IEEE Transactions on Computers*, 39(4):447–459, April 1990. <http://www.cs.cmu.edu/afs/cs/project/coda/Web/docdir/tcc90.pdf>. 2.2.1

- [448] M. Satyanarayanan, B. Noble, P. Kumar, and M. Price. Application-Aware Adaptation for Mobile Computing. In *Proceedings of the 6th ACM SIGOPS European Workshop: Matching Operating Systems to Application Needs*, pages 1–4, Dagstuhl Castle, Germany, September 1994. <http://www-2.cs.cmu.edu/afs/cs/project/coda/Web/docdir/dagstuhl94.pdf>. 2.2.2
- [449] Y. Saygin, Ö. Ulusoy, and A. K. Elmagarmid. Association Rules for Supporting Hoarding in Mobile Computing Environments. In *Proceedings of the 10th International Workshop on Research Issues on Data Engineering: Middleware for Mobile Business Applications and E-Commerce (RIDE'2000)*, pages 71–78, San Diego, California, USA, February 2000. <http://www.cs.purdue.edu/homes/saygin/HOME/RIDE.ps>. 2.3.1
- [450] A. Schmidt, M. Strohbach, K. Van Laerhoven, A. Friday, and H.-W. Gellersen. Context Acquisition Based on Load Sensing. In *Proceedings of the 4th International Conference on Ubiquitous Computing (UbiComp'2002)*, volume 2498 of *Lecture Notes in Computer Science*, pages 333–350. Springer Verlag, Göteborg, Sweden, October 2002. http://www.comp.lancs.ac.uk/~albrecht/pubs/pdf/schmidt_ubicomp_2002.pdf. 2.2.4
- [451] J. Schueller, K. Begain, M. Ermel, T. Mueller, and M. Schweigel. Performance Analysis of a Single UMTS Cell. In *Proceedings of the European Wireless Communications Conference*, Dresden, Germany, September 2000. http://www.torstenmueller.net/publications/eww2000_UMTS.pdf. 2.1.2
- [452] S. Schupp. How to Use a Library? In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/06_schupp.pdf. 3.2.1
- [453] SCIzzL: the Local Area Memory Port Local Area MultiProcessor Scalable Coherent Interface and Serial Express Users, Developers, and Manufacturers Association. *Home Page*. <http://www.SCIzzL.com>. 2.1.2
- [454] M.-T. Segarra. *Une plate-forme à composants adaptables pour la gestion des environnements sans fil*. PhD thesis, Université de Rennes 1, Rennes, France, November 2000. <ftp://ftp.irisa.fr/techreports/theses/2000/segarra.ps.gz>. 2
- [455] M.-T. Segarra and F. André. MFS: A Mobile File System Using Generic System Services. In *Proceedings of the 1999 ACM Symposium on Applied Computing (SAC'99)*, pages 419–420, San Antonio, Texas, USA, February 1999. <http://www.irisa.fr/solidor/doc/ps99/sac99.ps.gz>. 2.2.1
- [456] M.-T. Segarra and F. André. A Framework for Dynamic Adaptation in Wireless Environments. In *Proceedings of the 33rd Technology of Object-Oriented Languages and Systems (TOOLS'33)*, pages 336–347, St. Malo, France, June 2000. <http://www.computer.org/proceedings/tools/0731/0731toc.htm>. 2
- [457] M. Shapiro, Y. Gourhant, S. Habert, L. Mosseri, M. Ruffin, and C. Valot. SOS: An Object-Oriented Operating System — Assessment and Perspectives. *Computing Systems*, 2(4):287–338, December 1989. ftp://ftp.inria.fr/INRIA/Projects/SOR/papers/1989/SOS_computing-systems-fall89.ps.gz. 2.3.2
- [458] S. Shepler, B. Callaghan, D. Robinson, R. Thurlow, C. Beame, M. Eisler, and D. Noveck. NFS version 4 Protocol. Request For Comments (RFC) 3530, April 2003. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc3530.txt>. 2.2.1
- [459] B. D. Silaghi and P. J. Keleher. Object Distribution with Local Information. In *Proceedings of the 21st IEEE International Conference on Distributed Computing Systems (ICDCS'2001)*, pages 381–388, Mesa, Arizona, USA, April 2001. <http://www.cs.umd.edu/~keleher/papers/icdcs-local01.pdf>. 2.3.2
- [460] J. G. Silva, J. Carreira, and L. Silva. ParLin: From a Centralized Tuple Space to Adaptive Hashing. In *Proceedings of the World Transputer Congress'94*, Lake Como, Italy, September 1994. <http://www.uni-paderborn.de/pc2/services/software/parlin/WTC94.ps.Z>. 2.3.2

- [461] O. Silva, A. Garcia, and C. J. Lucena. T-Rex: A Reflective Tuple Space Environment for Dependable Mobile Agent Systems. In *Proceedings of 3rd Workshop on Wireless Communication and Mobile Computing (WCSF'2001), In conjunction with the 3rd International Conference on Mobile and Wireless Communication Networks (MWCN'2001)*, Recife, Brazil, August 2001. <ftp://ftp.teccomm.les.inf.puc-rio.br/pub/docs/TRex.zip>. 2.3.2
- [462] P. Sinha, N. Venkitaraman, R. Sivakumar, and V. Bharghavan. WTCP: A Reliable Transport Protocol for Wireless Wide-Area Networks. In *Proceedings of the 5th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'99)*, pages 231–241, Seattle, Washington, USA, August 1999. <http://www.acm.org/pubs/articles/proceedings/comm/313451/p231-sinha/p231-sinha.pdf>. 2.2.1
- [463] Skybridge. *Home Page*. <http://www.skybridgesatellite.com>. 2.1.2
- [464] A. Smeda, T. Khammaci, and M. Oussalah. Improving Component-Based Software Architecture by Separating Computations from Interactions. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/02_smeda_khammaci_oussalah.pdf. 3.2.1
- [465] B. C. Smith. *Procedural Reflection in Programming Languages*. PhD thesis, Laboratory of Computer Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA, 1982. <http://citeseer.nj.nec.com/context/323370/0>. 2.2.3
- [466] H. Soliman, C. Castelluccia, K. El-Malki, and L. Bellier. Hierarchical MIPv6 mobility management (HMIPv6). Internet-Draft, October 2002. <http://www.ietf.org/internet-drafts/draft-ietf-mobileip-hmipv6-07.txt>. 2.2.1
- [467] SONET. *Home Page*. <http://www.sonet.com>. 2.1.2
- [468] J. L. Sourrouille and J. L. Contreras. Objets Autonomes Adaptables. In *Actes de la Journées Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://arcad.essi.fr/2002-10-composants/papiers/13-long-sourrouille.pdf>. 2.2.3, 3.2
- [469] Spectrix Corporation. *Home Page*. <http://www.spectrixcorp.com>. 2.1.2
- [470] M. J. Spreitzer and M. M. Theimer. Providing Location Information in a Ubiquitous Computing Environment. In *Proceedings of the 14th Symposium on Operating System Principles (SOSP'93)*, pages 270–283, Asheville, North Carolina, USA, December 1993. <http://portal.acm.org>. 2.2.4
- [471] M. J. Spreitzer, M. M. Theimer, K. Petersen, A. J. Demers, and D. B. Terry. Dealing with Server Corruption in Weakly Consistent, Replicated Data Systems. In *Proceedings of the 3rd Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'97)*, pages 234–240, Budapest, Hungary, September 1997. <http://www2.parc.com/csl/projects/bayou/pubs/mobicom-97/ServerCorruption-Handout.fm.ps>. 2.3.1
- [472] M. J. Spreitzer, M. M. Theimer, K. Petersen, A. J. Demers, and D. B. Terry. Dealing with Server Corruption in Weakly Consistent, Replicated Data Systems. *Wireless Networks*, 5(5), 1999. <http://ipsapp008.lwwonline.com/ips/frames/toc.asp?J=5233&I=19>. 2.3.1
- [473] R. Srinivasan. RPC: Remote Procedure Call Protocol Specification Version 2. Request For Comments (RFC) 1831, August 1995. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc1831.txt>. 2.3.2
- [474] M. Stangel and V. Bharghavan. Improving TCP Performance in Mobile Computing Environments. In *Proceedings of the International Conference on Communications (ICC'98)*, pages 584–589, Atlanta, Georgia, USA, June 1998. <http://timely.crhc.uiuc.edu/Papers/icc98.2.ps.gz>. 2.2.1
- [475] N. Stouls, O. Carrillo, J. Ponge, F. Le Mouél, and A. Claude. Apprentissage augmenté : le numérique comme outil d'aide à l'apprentissage. In *5ème Colloque Pédagogie et Formation Inter INSA*, Lyon, France, March 2017. 1.3

- [476] R. J. Stroud and Z. Wu. Using Meta-Objects to Adapt a Persistent Object System to Meet Application Needs. In *Proceedings of the 6th ACM SIGOPS European Workshop: Matching Operating Systems to Application Needs*, pages 35–38, Dagstuhl Castle, Germany, September 1994. <http://www.cs.ncl.ac.uk/research/trs/abstracts/513.html>. 2.2.3
- [477] R. J. Stroud and Z. Wu. Using Metaobject Protocols to Implement Atomic Data Types. In *Proceedings of the 9th European Conference on Object-Oriented Programming (ECOOP'95)*, volume 952 of *Lecture Notes in Computer Science*, pages 168–189. Springer Verlag, Århus, Denmark, August 1995. <http://www.ifs.unilinz.ac.at/~ecoop/cd/papers/0952/09520168.pdf>. 2.2.3
- [478] W. T. Sullivan^{III}, D. Werthimer, S. Bowyer, J. Cobb, D. Gedye, and D. Anderson. A new major SETI project based on Project Serendip data and 100,000 personal computers. In « *Astronomical and Biochemical Origins and the Search for Life in the Universe* », *Proceedings of the 5th International Conference on Bioastronomy*, volume 161 of *IAU Colloquium*. Editrice Compositori, Bologna, Italy, 1997. http://setiathome.ssl.berkeley.edu/woody_paper.html. 2.3.2
- [479] Sun Microsystems. *Java Foundation Classes (JFC), Abstract Window Toolkit(AWT)*. <http://java.sun.com/products/jfc/index.html#awt>. 3.1
- [480] Sun Microsystems. *Java Foundation Classes (JFC), Swing GUI Components*. <http://java.sun.com/products/jfc/index.html#swing>. 3.1
- [481] Sun Microsystems. *Jini Architectural Overview – Technical White Paper*, January 1999. <http://www.sun.com/software/jini/whitepapers/architecture.pdf>. 2.3.2
- [482] Sun Microsystems. *Java™ 2 Platform Micro Edition (J2ME™) Technology for Creating Mobile Devices – White Paper*, May 2000. <http://java.sun.com/products/kvm/wp/KVMwp.pdf>. 2.3.2
- [483] Sun Microsystems. *The Application of Jini Technology to Enhance the Delivery of Mobile Services*, December 2001. <http://www.sun.com/software/jini/whitepapers/PsiNapticMIDs.pdf>. 2.3.2
- [484] Sun Microsystems. *Enterprise JavaBeans™ Specification*, August 2001. statut : « Version 2.0, Final Release », ftp://ftp.java.sun.com/pub/ejb/947q9tbb/ejb-2_0-fr2-spec.pdf. 2.3.2
- [485] Sun Microsystems. *Java 2 Platform Enterprise Edition Specification*, July 2001. statut : « Version 1.3 », http://java.sun.com/j2ee/j2ee-1_3-fr-spec.pdf. 2.3.2
- [486] Sun Microsystems. *Java™ 2 Platform, Micro Edition – Datasheet*, February 2001. <http://java.sun.com/j2me/j2me-ds-0201.pdf>. 2.3.2
- [487] Sun Microsystems. *JavaSpaces™ Service Specification*, April 2002. statut : « version 1.2.1 », http://www.sun.com/software/jini/specs/js1_2_1.pdf. 2.3.2, 2.3.2
- [488] Sun Microsystems. *Java™ Remote Method Invocation – Specification*, February 2002. statut : « Revision 1.8, Java 2 SDK Standard Edition v1.4 », <ftp://ftp.java.sun.com/docs/j2se1.4/rmi-spec-1.4.pdf>. 2.3.2
- [489] Sun Microsystems. *Java™ 2 SDK, Standard Edition Documentation*, July 2003. statut : « version 1.4.2 », <http://java.sun.com/j2se/1.4.2/docs/index.html>. 3.1
- [490] C. Sunshine and J. Postel. Addressing Mobile Hosts in ARPA Environment. Internet Experiment Note (IEN) 135, March 1980. <ftp://ftp.isi.edu/in-notes/ien/ien135.txt>. 2.2.1
- [491] C. D. Tait, H. Lei, S. Acharya, and H. Chang. Intelligent File Hoarding for Mobile Computers. In *Proceedings of the 1st Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'95)*, pages 119–125, Berkeley, California, USA, November 1995. <http://www.cs.cmu.edu/afs/cs.cmu.edu/user/satya/Web/MCSALINK/PAPERS/tait95.pdf>. 2.3.1

- [492] E. Tanter, N. M. N. Bouraqadi-Saâdani, and J. Noyé. Reflex – Towards an Open Reflective Extension of Java. In *Proceedings of the 3rd International Conference on Meta-level Architectures and Separation of Crosscutting Concerns (Reflection'2001)*, volume 2192 of *Lecture Notes in Computer Science*, pages 25–43. Springer Verlag, Kyoto, Japan, September 2001. <http://www.dcc.uchile.cl/~etanter/research/publi/reflex-Reflection2001.ps.gz>. 2.2.3
- [493] M. Tatsubori, S. Chiba, M.-O. Killijian, and K. Itano. OpenJava: A Class-Based Macro System for Java. In *Reflection and Software Engineering, Papers from OORaSE 1999, 1st OOPSLA Workshop on Reflection and Software Engineering*, volume 1826 of *Lecture Notes in Computer Science*, pages 117–133. Springer Verlag, Denver, Colorado, USA, 2000. http://www.csg.is.titech.ac.jp/~mich/openjava/papers/mich_2000lns1826.pdf. 2.2.3
- [494] Teledesic. *Home Page*. <http://www.teledesic.com>. 2.1.2
- [495] F. Teraoka, K. C. Claffy, and M. Tokoro. Design, Implementation, and Evaluation of Virtual Internet Protocol. In *Proceedings of the 12th International Conference on Distributed Computing Systems (ICDCS'92)*, pages 170–177, Yokohama, Japan, June 1992. <http://citeseer.nj.nec.com/teraoka92design.html>. 2.2.1
- [496] D. B. Terry, K. Petersen, M. J. Spreitzer, and M. M. Theimer. The Case for Non-transparent Replication: Examples from Bayou. *IEEE Data Engineering Bulletin*, 21(4):12–20, December 1998. <http://www2.parc.com/groups/csl/projects/bayou/pubs/dataeng-98/DataEngineeringDec98.frame.pdf>. 2.3.1
- [497] D. B. Terry, M. M. Theimer, K. Petersen, A. J. Demers, M. J. Spreitzer, and C. Hauser. Managing Update Conflicts in Bayou, a Weakly Connected Replicated Storage System. In *Proceedings of the 15th ACM Symposium on Operating System Principles (SOSP'95)*, pages 172–183, Copper Mountain Resort, Colorado, USA, December 1995. <http://www2.parc.com/csl/projects/bayou/pubs/sosp-95/BayouConflictsSOSPPreprint.ps.gz>. 2.3.1
- [498] S. Thomson and T. Narten. IPv6 Stateless Address Autoconfiguration. Request For Comments (RFC) 2462, December 1998. statut : « Draft Standard », <http://www.ietf.org/rfc/rfc2462.txt>. 2.2.1
- [499] J. Tournier, F. Lesueur, F. Le Mouël, L. Guyon, and H. Ben-Hassine. Audit d'un système IoT par test d'intrusion. In *Actes des Rendes-Vous de la Recherche et de l'Enseignement de la Sécurité des Systèmes d'Information (RESSI'2018)*, Nancy, France, May 2018. 1.1.14, 1.2.1
- [500] J. Tourrilhes. *Wireless Tools for Linux – Home Page*. Hewlett Packard. http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html. 2.3.2
- [501] D. Touzet, J.-M. Menaud, F. Weis, P. Couderc, and M. Banâtre. SIDE Surfer: Enriching Casual Meetings with Spontaneous Information Gathering. *ACM SigArch Computer Architecture Newsletter*, 29(5):76–83, December 2001. <http://www.emn.fr/x-info/jmenaud/specifique/Papiers/SIGARCHCAN/articleACMSIGARCH.ps>. 2.2.4
- [502] E. Truyen, B. Vanhaute, W. Joosen, P. Verbaeten, and B. N. Jørgensen. Dynamic and Selective Combination of Extensions in Component-Based Applications. In *Proceedings of the 23rd International Conference on Software Engineering (ICSE'2001)*, pages 233–242, Toronto, Canada, May 2001. <http://www.cs.kuleuven.ac.be/~distrinet/projects/CORRELATE/PUBLICATIONS/ICSE2001.pdf>. 2.2.3
- [503] B. Törnqvist and R. Gustavsson. On Adaptive Aspect-Oriented Coordination for Critical Infrastructures. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/08_tornqvist_gustavsson.pdf. 3.2.1

- [504] UDDI Consortium. *UDDI Technical White Paper*, September 2000. http://www.uddi.org/pubs/Iru_UDDI_Technical_White_Paper.PDF. 2.3.2
- [505] USB 2.0 Technical Working Groups. *Universal Serial Bus Revision 2.0 specification*, April 2000. http://www.usb.org/developers/data/usb_20.zip. 2.1.1
- [506] M. Vadet and P. Merle. Adaptation des connecteurs dans le CCM. In *Actes de la Journées Composants (JC2002), ASF (ACM SIGOPS France)*, Grenoble, France, October 2002. <http://arcad.essi.fr/2002-10-composants/papiers/11-long-vadet.pdf>. 3.2
- [507] A. Vahdat, A. Lebeck, and C. S. Ellis. Every Joule is Precious: The Case for Revisiting Operating System Design for Energy Efficiency. In *Proceedings of the 9th ACM SIGOPS European Workshop*, September 2000. <http://www.cs.duke.edu/~vahdat/ps/sigops00.pdf>. 2.1.1, 2.1.3
- [508] N. Vaidya, M. Mehta, C. Perkins, and G. Montenegro. Delayed Duplicate Acknowledgements: A TCP-Unaware Approach to Improve Performance of TCP over Wireless. Technical Report TR-99-003, Texas A&M University, USA, 1999. <http://playground.sun.com/~gab/papers/delayed-dupacks.ps>. 2.2.1
- [509] A. G. Valkó. Cellular IP – A New Approach to Internet Host Mobility. *ACM Computer Communication Review*, 29(1):50–65, January 1999. <http://comet.ctr.columbia.edu/cellularip/pub/ccr99.pdf>. 2.2.1
- [510] F. van Harmelen. A model of costs and benefits of meta-level computation. In *Proceedings of the 4th Workshop on Meta-programming in Logic (META'94)*, volume 883 of *Lecture Notes in Computer Science*, pages 248–261. Springer Verlag, Pisa, Italy, June 1994. <http://www.cs.vu.nl/~frankh/postscript/META94.ps.gz>. 2.2.3
- [511] M. van Steen, P. Homburg, and A. S. Tanenbaum. Globe: A Wide-Area Distributed System. *IEEE Concurrency*, 7(1):70–78, January 1999. <ftp://ftp.cs.vu.nl/pub/papers/globe/ieeconc.99.org.pdf>. 2.3.2
- [512] P.O.S. Vaz De Melo, A. C. Viana, M. Fiore, K. Jaffrès-Runser, F. Le Mouël, and A. A. F. Loureiro. Usando Redes Aleatorias na Analise de Mobilidade. In *Proceedings of the 30th Brazilian Symposium on Computer Networks and Distributed Systems (SBRC)*, Ouro Preto, Brazil, April 2012. 1.1.9
- [513] P.O.S. Vaz De Melo, A. C. Viana, M. Fiore, K. Jaffrès-Runser, F. Le Mouël, and A. A. F. Loureiro. RECAST: Telling Apart Social and Random Relationships in Dynamic Networks. In *Proceedings of the 16th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM'2013)*, pages 327–334, Barcelona, Spain, November 2013. 1.1.9
- [514] P.O.S. Vaz De Melo, A. C. Viana, M. Fiore, K. Jaffrès-Runser, F. Le Mouël, A. A. F. Loureiro, L. Addepalli, and G. Chen. RECAST: Telling Apart Social and Random Relationships in Dynamic Networks. *Performance Evaluation*, 87(0):19–36, May 2015. Special Issue: Recent Advances in Modeling and Performance Evaluation in Wireless and Mobile Systems. 1.1.9
- [515] H. Wada, T. Yozawa, T. Ohnishi, and Y. Tanaka. Mobile Computing Environment Based on Internet Packet Forwarding. In *Proceedings of the Usenix Winter 1993 Technical Conference (USENIX Winter'93)*, pages 503–518, San Diego, California, USA, January 1993. <http://citeseer.nj.nec.com/context/287041/0>. 2.2.1
- [516] S. Wade. *An Investigation into the use of the Tuple Space Paradigm in Mobile Computing Environments*. PhD thesis, Computing Department, Lancaster University, Lancaster, UK, September 1999. <ftp://ftp.comp.lancs.ac.uk/pub/mpg/MPG-99-27.ps.gz>. 2.2.2, 2.3.2
- [517] M. Wahl, T. Howes, and S. Kille. Lightweight Directory Access Protocol (v3). Request For Comments (RFC) 2251, December 1997. statut : « Proposed Standard », <ftp://ftp.isi.edu/in-notes/rfc2251.txt>. 2.3.2

- [518] J. Walpole, L. Liu, D. Maier, C. Pu, and C. Krasic. Quality of Service Semantics for Multimedia Database Systems. In *Proceedings of Database Semantics - Semantic Issues in Multimedia Systems, IFIP TC2/WG2.6 8th Working Conference on Database Semantics (DS'8)*, pages 393–412, Rotorua, New Zealand, January 1999. <http://www.cse.ogi.edu/~krasic/ds8.pdf>. 2.3.1
- [519] WAP Forum. *Wireless Application Protocol - White Paper*, June 2000. http://www.wapforum.org/what/WAP_white_pages.pdf. 2.2.2
- [520] WAP Forum. *Wireless Application Protocol - Architecture Specification*, July 2001. <http://www1.wapforum.org/tech/documents/WAP-210-WAPArch-20010712-a.pdf>. 2.2.2
- [521] WAP Forum. *Wireless Application Protocol - WAP 2.0 Technical White Paper*, August 2001. http://www.wapforum.org/what/WAPWhite_Paper1.pdf. 2.2.2
- [522] C. Weider, J. Reynolds, and S. Heker. Technical Overview of Directory Services using the X.500 Protocol. Request For Comments (RFC) 1309, For Your Information (FYI) 14, March 1992. <ftp://ftp.isi.edu/in-notes/fyi/fyi14.txt>. 2.3.2
- [523] I. Welch and R. Stroud. Dynamic Adaptation of the Security Properties of Applications and Components. In *Proceedings of the Workshop on Distributed Object Security at the 12th European Conference on Object-Oriented Programming (ECOOP'98)*, Brussels, Belgium, July 1998. <http://www.cs.ncl.ac.uk/research/dependability/reflection/downloads/ewdos98.pdf>. 2.2.3
- [524] I. Welch and R. Stroud. From Dalang to Kava – the Evolution of a Reflective Java Extension. In *Proceedings of the 2nd International Conference on Metalevel Architectures and Reflection (Reflection'99)*, volume 1616 of *Lecture Notes in Computer Science*, pages 2–21. Springer Verlag, Saint-Malo, France, July 1999. <http://www.cs.ncl.ac.uk/research/dependability/reflection/downloads/reflection99.pdf>. 2.2.3
- [525] I. Welch and R. Stroud. Using Reflection as a Mechanism for Enforcing Security Policies in Mobile Code. In *Proceedings of the 6th European Symposium on Research in Computer Security (ESORICS'2000)*, volume 1895 of *Lecture Notes in Computer Science*, pages 309–323. Springer Verlag, Toulouse, France, October 2000. <http://www.cs.ncl.ac.uk/research/dependability/reflection/downloads/esorics00.pdf>. 2.2.3
- [526] I. Welch and R. Stroud. Kava – Using Bytecode Rewriting to add Behavioural Reflection to Java. In *Proceedings of the 6th USENIX Conference on Object-Oriented Technology (COOTS'2001)*, pages 119–130, San Antonio, Texas, USA, February 2001. <http://www.cs.ncl.ac.uk/research/dependability/reflection/downloads/coots01.pdf>. 2.2.3
- [527] I. Welch, R. Stroud, and A. B. Romanovsky. Aspects of Exceptions at the Meta-level. In *Proceedings of the 3rd International Conference on Meta-level Architectures and Separation of Crosscutting Concerns (Reflection'2001)*, volume 2192 of *Lecture Notes in Computer Science*, pages 280–281. Springer Verlag, Kyoto, Japan, September 2001. <http://www.comp.lancs.ac.uk/computing/users/marash/aopws2001/papers/welch.pdf>. 2.2.3
- [528] T. A. Welch. A Technique for High-Performance Data Compression. *IEEE Computer*, 17(6):8–19, June 1984. <http://citeseer.nj.nec.com/context/4286/0>. 2.3.1
- [529] World Wide Web Consortium. *HTML 4.01 Specification*, December 1999. statut : « W3C Recommendation », <http://www.w3.org/TR/html4/>. 2.2.1
- [530] World Wide Web Consortium. *Resource Description Framework (RDF) Model and Syntax Specification*, February 1999. statut : « W3C Recommendation, errata REC-rdf-syntax-19990222 », <http://www.w3.org/TR/REC-rdf-syntax/>. 2.3.2
- [531] World Wide Web Consortium. *XHTML 1.0: The Extensible HyperText Markup Language*, January 2000. statut : « W3C Recommendation », <http://www.w3.org/TR/html/>. 2.2.1

- [532] World Wide Web Consortium. *Extensible Markup Language (XML) 1.1*, October 2002. statut : « W3C Candidate Recommendation », <http://www.w3.org/TR/xml11/>. 2.2.1
- [533] Z. Wu and S. Schwiderski. Reflective Java: Making Java Even More Flexible. Technical Report APM.1936.02, ANSA, February 1997. <http://www.ansa.co.uk/ANSATech/97/Primary/193602.pdf>. 2.2.3
- [534] N. Yahiaoui, B. Traverson, and N. Levy. Classification and Comparison of Dynamic Adaptable Software Platforms. In *Proceedings of the 1st International Workshop on Coordination and Adaptation Techniques for Software Entities (WCAT'2004)*, Oslo, Norway, June 2004. http://wcat04.unex.es/wcat04/papers/07_yahiaoui_traverson_levy.pdf. 3.2.1
- [535] D. Yang, D. Zhang, K.-L. Tan, J. Cao, and F. Le Mouël. CANDS: Continuous Optimal Navigation via Distributed Stream Processing. *PVLDB*, 8(2):137–148, 2014. 1.1.10, 1.1.11, 1.2.6
- [536] M. Yarvis, P. Reiher, and G. J. Popek. A Reliability Model for Distributed Adaptation. In *Proceedings of the 3rd IEEE Conference on Open Architectures and Network Programming (OpenArch'2000)*, Tel-Aviv, Israel, March 2000. http://ficus-www.cs.ucla.edu/yarvis/Conductor/papers/Reliability_OpenArch.pdf. 2.3.2
- [537] R. Yavatkar and N. Bhagwat. Improving End-to-End Performance of TCP over Mobile Internetworks. In *Proceedings of IEEE Workshop on Mobile Computing Systems and Applications (WMCSA'94)*, Santa Cruz, California, USA, December 1994. <http://citeseer.nj.nec.com/context/25177/0>. 2.2.1
- [538] Y. Yokote. The Apertos Reflective Operating System: The Concept and Its Implementation. In *Proceedings of 7th Annual Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA'92)*, volume 27, n.10 of *SIGPLAN Notices*, pages 414–434. ACM, Vancouver, British Columbia, Canada, October 1992. <ftp://ftp.csl.sony.co.jp/CSL/CSL-Papers/92/SCSL-TR-92-014.ps.Z>. 2.2.3
- [539] Y. Yokote. Past, Present, and Future of AperiOS (abstract). In *Invited Talk at the 2nd International Conference on Meta-Level Architectures and Reflection (Reflection'99)*, volume 1616 of *Lecture Notes in Computer Science*, page 153. Springer Verlag, Saint-Malo, France, July 1999. <http://link.springer.de/link/service/series/0558/bibs/1616/16160153.htm>. 2.2.3
- [540] H. Yu and A. Vahdat. Design and Evaluation of a Continuous Consistency Model for Replicated Services. In *Proceedings of the 4th Symposium on Operating Systems Design and Implementation (OSDI'2000)*, San Diego, California, USA, October 2000. http://www.cs.duke.edu/~vahdat/ps/tact_osdi.pdf. 2.3.1
- [541] B. Zenel. A general purpose proxy filtering mechanism applied to the mobile environment. *Wireless Networks*, 5(5):391–409, 1999. <http://www.cs.uno.edu/~golden/6990MC/MobilePapers/zenel1.pdf>. 2.3.2
- [542] B. Zenel and D. Duchamp. General Purpose Proxies: Solved and Unsolved Problems. In *Proceedings of the 6th Workshop on Hot Topics in Operating Systems (HotOS-VI)*, pages 87–92, Cape Cod, Massachusetts, USA, May 1997. <http://guinness.cs.stevens-tech.edu/~djd/collected-papers/hot-os6.ps>. 2.3.2
- [543] B. Zenel and D. Duchamp. A General Purpose Proxy Filtering Mechanism Applied to the Mobile Environment. In *Proceedings of the 3rd Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'97)*, pages 248–259, Budapest, Hungary, September 1997. <http://guinness.cs.stevens-tech.edu/~djd/collected-papers/mobicom97-filter.ps>. 2.3.2
- [544] X. Zhao and M. Baker. Flexible Connectivity Management for Mobile Hosts. Technical Report CSL-TR-97-735, Stanford University, California, USA, September 1997. <ftp://db.stanford.edu/pub/cstr/reports/csl/tr/97/735/CSL-TR-97-735.pdf>. 2.2.2

- [545] X. Zhao, C. Castelluccia, and M. Baker. Flexible Network Support for Mobility. In *Proceedings of the 4th Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom'98)*, pages 145–156, Dallas, Texas, USA, October 1998. <http://mosquitonet.stanford.edu/publications/flexible.ps>. 2.2.2
- [546] X. Zhao, C. Castelluccia, and M. Baker. Flexible Network Support for Mobile Hosts. *Mobile Networks and Applications (MONET)*, 6(2):137–149, March 2001. <http://mosquitonet.stanford.edu/publications/monet99.ps>. 2.2.2
- [547] S. Zhou. A Trace-driven Simulation Study of Dynamic Load Balancing. Technical Report UCB/CSD 87/305, Computer Science Division (EECS), University of California, Berkeley, California, USA, September 1986. <http://sunsite.berkeley.edu/TechRepPages/CSD-87-305>. 2.3.2, 548
- [548] S. Zhou. A Trace-driven Simulation Study of Dynamic Load Balancing. *IEEE Transactions on Software Engineering*, 14(9):1327–1341, September 1988. publié aussi dans [547]. 2.3.2
- [549] S. Zhou, J. Wang, X. Zheng, and P. Delisle. Utopia: A Load Sharing System for Large, Heterogeneous Distributed Computer Systems. Technical Report CSRI-257, Computer Systems Research Institute, University of Toronto, Toronto, Canada, April 1992. <ftp://ftp.cs.toronto.edu/pub/reports/csri/257/257.ps.Z>. 2.3.2
- [550] J. Ziv and A. Lempel. A Universal Algorithm for Sequential Data Compression. *IEEE Transactions on Information Theory*, 23(3):337–343, May 1977. <http://www.stanford.edu/class/ee398a/resources/ziv:77-SDC.pdf>. 2.3.1

... and don't forget to enjoy life and have fun ... carpe diem ... □