

Publications and other Writings

*pretty much a complete listing, but always growing... mostly with links to the papers, some in IEEEExplore, SpringerLink or ACM Portal, etc...

Book Chapters, Journal Papers, Conference and Workshop Papers

1. Loke, S.W. and Davison, A. **Logic Programming with the World-Wide Web**, Proceedings of the 7th ACM Conference on Hypertext, Washington DC, USA (Hypertext '96), pages 235 - 245. ACM Press, March 1996.
2. Loke, S.W., Davison, A., and Sterling, L. **CiFi: An Intelligent Agent for Citation Finding on the World-Wide Web**, Proceedings of the 4th Pacific Rim International Conference on Artificial Intelligence, Cairns, Australia (PRICAI'96), pages 580 - 591. Springer-Verlag Lecture Notes in Artificial Intelligence (LNAI 1114), N. Foo and R. Goebel (eds), August 1996. Also available as the technical report 96/4, as compressed postscript.
3. Loke, S.W., Davison, A., and Sterling, L. **Lightweight Deductive Databases on the World-Wide Web**, Proceedings of the 1st Workshop on "Logic Programming Tools for INTERNET Applications" held in conjunction with the Joint International Conference and Symposium on Logic Programming (JICSLP '96), pages 91 - 106, P. Tarau, A. Davison, K. De Bosschere, and M. Hermenegildo (eds), September 1996.
4. Sterling, L., Loke, S.W., and Davison, A. **Software Agents for Retrieving Knowledge from the WWW**, In "Agents and Web-based Design Environments" workshop notes, Fourth International Conference on Artificial Intelligence in Design, 22-23 June 1996, Stanford University, USA.
5. Loke, S.W. **LogicWeb: Using Logic Programming to Extend the World Wide Web**, Proceedings of the Second Joint AUUG and Asia Pacific World Wide Web Conference, Melbourne, Australia, pages 220 - 226, September 1996.
6. Han, Y., Loke, S.W., and Sterling, L. **Agents for Citation Finding on the World Wide Web**, Proceedings of the 2nd Conference on the Practical Application of Intelligent Agents and Multi-Agent Technology, 1997. The version submitted to PAAM '97 is available as the technical report 96/40, as compressed postscript.
7. Loke, S.W. and Davison, A. **A Logic Programming Approach to Generating Web-based Guided Tours**, Proceedings of the 5th International Conference and Exhibition on The Practical Application of Prolog, London, UK, April 1997.
8. Loke, S.W. and Davison, A. **A Two-level World Wide Web Model with Logic Programming Links**, Proceedings of the 2nd Workshop on "Logic Programming Tools for INTERNET Applications" held in conjunction with the 14th International Conference on Logic Programming, Leuven, Belgium, pages 41 - 54, K. De Bosschere, M. Hermenegildo, and P. Tarau (eds), July 1997.

9. Davison, A. and Loke, S.W. **An Introduction to LogicWeb**. EECON-20: 20th Electrical Engineering Conference of Thailand, Bangkok, Thailand, November 1997.
10. Loke, S.W., Sterling, L., Sonenberg, E., and Hoon, K. **ARIS: A shell for information agents that exploit Web site structure**, Proceedings of the 3rd International Conference and Exhibition on the Practical Application of Intelligent Agents and Multi-Agent Technology, London, UK, pages 201 - 219. H.S. Nwana and D.T. Ndumu (eds). The Practical Application Company Ltd., March 1998. Also appears in the Proceedings of the 6th International Conference on the Practical Application of Prolog, London, UK, pages 205 - 223. The Practical Application Company Ltd., March 1998.
11. Loke, S.W. and Davison, A. **The Implementation of a System for Declarative Mobile Code and Web Querying**. Proceedings of the 11th International Conference on Applications of Prolog, Tokyo, Japan, pages 197- 204, September 1998.
12. Davison, A. and Loke, S.W. **LogicWeb: Enhancing the Web with Logic Programming**, *Journal of Logic Programming*, Vol. 36(3), September 1998, pp.195-240.
13. Loke, S.W., Sterling, L., and Sonenberg, E. **A Knowledge-Based Approach to Domain-Specialized Information Agents**, *Internet Research : Electronic Networking Applications and Policy*, Vol. 9(2), 1999, pp.140-152.
14. Davison, A. and Loke, S.W. **A Concurrent Logic Programming Model of the Web**, Proceedings of the Practical Application of Constraint Technologies and Logic Programming, London, UK, April 1999.
15. Davison, A. and Loke, S.W. **Semantic Clusters for the Web**, *Electronic Journal of the School of Advanced Technologies (Asian Institute of Technology)*, Vol. 1(2), July 1999.
16. Loke, S.W. and Ling, S. **Design by Contract for Java Based Mobile Agents**. Online Proceedings of the Workshop on Object-Oriented Specification Techniques for Distributed Systems and Behaviours (OOSDS'99) at the Conference on Principles, Logics, and Implementations of High-level Programming Languages (PLI'99) , Paris, France, September 1999.
17. Loke, S.W., Schmidt, H., and Zaslavsky, A. **Programming the Mobility Behaviour of Agents by Composing Itineraries**. Proceedings of the 5th Asian Computing Science Conference (ASIAN '99), Phuket, Thailand, LNCS 1742, P.S. Thiagarajan and R.Yap (eds), pages 214- 226, December 1999.
18. Loke, S.W. and Zaslavsky, A. **The Mobile Agent as a Paradigm for Adaptive and Extensible Distributed Workflow**. Proceedings of the Workshop on "AI in Electronic Commerce" (AIEC'99) at the Australian Joint Conference on Artificial Intelligence (AI'99), Sydney, Australia, pages 15-20, December 1999.
19. Loke, S.W. and Zaslavsky, A. **Itineraries and Mobile Agent Management for Distributed Workflow Enactment**. Proceedings of the Workshop on "Agents in E-Commerce" at the 1st Asia-Pacific Conference on Intelligent Agent Technology (IAT'99), Hong Kong, pages 11-20, December 1999.
20. Loke, S.W., Rakotonirainy, A., and Zaslavsky, A. **Enabling Awareness in Dynamic Mobile Agent Environments** (short/poster paper). Proceedings of the 15th

Symposium on Applied Computing (SAC 2000), Como, Italy, March 2000, ACM Press.

21. Indulska, J., Loke, S.W., Rakotonirainy, A., and Zaslavsky, A. **Adaptive Enterprise Architecture for Mobile Computation** (position paper). Online Proceedings of the Workshop on Reflective Middleware, Middleware 2000, April 2000. (presented by first author)
22. Rakotonirainy, A., Loke, S.W., and Fitzpatrick, G. **Context-Awareness for the Mobile Environment** (position paper) in the Workshop on The What, Who, Where, When, and How of Context-Awareness, as part of the 2000 Conference on Human Factors in Computing Systems (CHI 2000), The Hague, The Netherlands, April 3, 2000. Online proceedings is available here. (presented by the third author)
23. Rakotonirainy, A., Loke, S.W., and Zaslavsky, A. **Towards a Mobile Enterprise Framework** (short/poster paper). Proceedings of the 2000 Academia/Industry Working Conference on Research Challenges (AIWoRC 2000) on "Next Generation Enterprises: Virtual Organizations and Mobile/Pervasive Technologies", Buffalo, NY, USA, April 2000, IEEE Press. (ISBN 0-7695-0628-3)
24. Krishnaswamy, S., Zaslavsky, A., and Loke, S.W. **An Architecture to Support Distributed Data Mining Services in E-Commerce Environments**. Proceedings of the 2nd International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS2000), Milipitas, CA, USA, June 2000, IEEE Press. (ISBN 0-7695-0610-0)
25. Rakotonirainy, A., and Loke, S.W., and Zaslavsky, A. **Towards Multi-Agent Support for Open Mobile Virtual Communities**. Proceedings of the International Conference on Artificial Intelligence (IC-AI 2000) (Vol I), Las Vegas, Nevada, USA, (ed) H.R. Arabnia, June 2000, pages 127-133, CSREA Press. (ISBN 1-892512-56-4)
26. Loke, S.W., Rakotonirainy, A., and Schulz, K. **Location-Based Personal Agents: A Metaphor for Situated Computing** Proceedings of the International Workshop on Pervasive Computing at the International Conference on Parallel Processing (ICPP 2000), Toronto, Canada, (ed) P. Sadayappan, August 2000, pages 17-19, IEEE Computer Society Press. (ISBN 0-7695-0771-9)
27. Krishnaswamy, S., Loke, S.W., and Zaslavsky, A. **Cost Models for Heterogeneous Distributed Data Mining**, Proceedings of the 12th International Conference on Software Engineering and Knowledge Engineering (SEKE'2000) , Chicago, Illinois, July 2000, pages 31-38. (invited paper of third author)
28. Nugroho, L.E., Loke, S.W., Srinivasan, B., Sajeev, A.S.M., and Ibrahim, I.K. **A Context-Based Model for Programming Mobility**. Proceedings of the 2nd International Workshop on Information Integration and Web-Based Applications and Services, Yogyakarta, Indonesia, September 2000, pages 127-141. (ISBN: 979-9398-07-X). Also technical report SCCH-TR-0046 of the Software Competence Center Hagenberg.
29. Rakotonirainy, A., and Loke, S.W. **An Adaptability Framework for Mobile Applications**. Proceedings of the 5th African Conference on Research in Computer Science (CARI2000), October 2000.

30. Loke, S.W., and Ling, S. **Mobile Agent Itineraries and Workflow Nets for Analysis and Enactment of Distributed Business Processes**. Proceedings of the International Symposium on Multi-Agents and Mobile Agents in Virtual Organizations and E-Commerce (MAMA'2000) at the International ICSC Congress on Intelligent Systems and Applications (ISA'2000), Wollongong, Australia, (ed.) H. Tianfield, December 2000, pages 459 - 466, ICSC Academic Press. (Volume 1, ISBN 3-906454-24-X)
31. Krishnaswamy, S., Zaslavsky, A., and Loke, S.W. **Federated Data Mining Services and a Supporting XML Markup Language**. Proceedings of the 34th Annual Hawaii International Conference on System Sciences (HICSS-34), Hawaii, USA, January 2001. In the "e-Services: Models and Methods for Design, Implementation and Delivery" mini-track of the "Decision Technologies for Management" track.
32. Loke, S.W., Rakotonirainy, A., and Zaslavsky, A. **An Enterprise Viewpoint of Wireless Virtual Communities and the Associated Uses of Software Agents**, a chapter in the book "Internet Commerce and Software Agents: Cases, Technologies and Opportunities", Rahman, S.M. and Bignall, R.J. (eds.), 2001, pages 265 - 287, Idea Group Publishing. (ISBN 1-930708-01-7)
33. Loke, S.W. and Davison, A. **Secure Prolog Based Mobile Code**. *Theory and Practice of Logic Programming* (Special issue on Logic Programming and the Internet), Vol. 1(3), May 2001, pp.321-357. [PDF preprint].
34. Loke, S.W. and Zaslavsky, A. **Towards Distributed Workflow Enactment with Itineraries and Mobile Agent Management**, a chapter in the book "E-Commerce Agents, Marketplace Solutions, Security Issues, and Supply and Demand", Lecture Notes in Computer Science 2033, Jiming, L. and Yiming, Y. (eds.), 2001, pages 283 - 294, Springer-Verlag. (ISBN 3-540-41934-9)
35. Loke, S.W., Zaslavsky, A., Yap, B., and Fonseka, J. **Scripting Mobile Agents to Support Cooperative Work in the 21st Century**. Proceedings of the Workshop on Agent-Supported Cooperative Work at Autonomous Agents 2001 (ASCW-2001), Montreal, Canada, (eds.) B. Lee and Y. Ye, May 2001, pages 1 - 10.
36. Loke, S.W. **An Overview of Mobile Agent Technology for Distributed Applications: Possibilities for Future Enterprise Systems**. *Informatica: An International Journal of Computing and Informatics*, Vol. 25(2), July 2001, pp.247-260. (ISSN 0350-5596)
37. Krishnaswamy, S., Zaslavsky, A., and Loke, S.W. **Towards Data Mining Services on the Internet with a Multiple Service Provider Model: An XML Based Approach**. *Journal of Electronic Commerce Research* (Special issue on Electronic Commerce and Service Operations), Vol. 2(3), August 2001. Available online here. (ISSN 1526-6133)
38. Indulska, J., Loke, S.W., Rakotonirainy, A., Witana, V., and Zaslavsky, A. **An Open Architecture for Pervasive Systems**. Proceedings of the 3rd International Working Conference on Distributed Applications and Interoperable Systems (DAIS 2001), Kraków, Poland, (eds.) K. Zielinski, K. Geihs, and A. Laurentowski, September 17-19, 2001, pages 175-188, Kluwer. (ISBN 0-7923-7481-9)
39. Loke, S.W., Zaslavsky, A., Yap, B., and Fonseka, J. **An Itinerary Scripting Language for Mobile Agents in Enterprise Applications**. Proceedings of the 2nd

Asia-Pacific Conference on Intelligent Agent Technology (IAT 2001), Maebashi, Japan, (eds.) N. Zhong, J. Liu, S. Ohsuga, and J. Bradshaw, October 23-26, 2001, pages 124-128, World Scientific Publishing. (ISBN 981-02-4706-0) (acceptance rate: 30%)

40. Ling, S. and Loke, S.W. **Verification of Itineraries for Mobile Agent Enabled Interorganizational Workflow**. Proceedings of the 4th International Workshop on Mobility in Databases and Distributed Systems (MDDS 2001) (in conjunction with the 12th International Workshop on Database and Expert Systems Applications (DEXA 2001)), Munich, Germany, (eds.) A. Min Tjoa and R. Wagner, September 3-7, 2001, pages 582-586, IEEE Computer Society. (ISBN 0-7695-1230-5)
41. Rakotonirainy, A., Indulska, J., Loke, S.W., and Zaslavsky, A. **Middleware for Reactive Components: An Integrated Use of Context, Roles, and Event Based Coordination**. Proceedings of the IFIP/ACM International Conference on Distributed Systems Platforms (Middleware 2001), Heidelberg, Germany, (ed.) R. Guerraoui, November 12-16, 2001, pages 77-98, Springer-Verlag, Lecture Notes in Computer Science 2218. (ISBN 3-540-42800-3) (acceptance rate: 17%)
42. Krishnaswamy, S., Loke, S.W., and Zaslavsky, A. **Knowledge Elicitation Through Web-Based Data Mining Services**. Proceedings of the 3rd International Workshop on Advances in Learning Software Organizations (LSO 2001), Kaiserslautern, Germany, (eds.) K. Althoff, R.L. Feldmann, and W. Müller, September 12-13, 2001, pages 120-134, Springer-Verlag, Lecture Notes in Computer Science 2176. (ISBN 3-540-42574-8)
43. Ling, S., and Loke, S.W. **Advanced Petri Nets for Modelling Mobile Agent Enabled Interorganizational Workflows**. Proceedings of the 9th Annual IEEE International Conference and Workshop on the Engineering of Computer-Based Systems (ECBS 2002) to be held 8-11 April 2002 in Lund, Sweden for the session on "Performance, interoperability, and applications of mobile agent systems". [Builds on the MDDS'01 paper "Verification of Itineraries for Mobile Agent Enabled Interorganizational Workflow".]
44. Loke, S.W. **Supporting Intelligent BDI Agents on Resource-Limited Mobile Devices - Issues and Challenges from a Mobile Database Perspective** (short paper). Proceedings of the Workshop on Ubiquitous Agents on Embedded, Wearable and Mobile Devices at the 1st International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2002), (eds) T. Finin and F. Perich, July 2002.
45. Loke, S.W. **An Exploration of Agent-Mediated Physical Marketplaces: Location-Based Reverse Auctions** (abstract). Proceedings of the Workshop on Ubiquitous Agents on Embedded, Wearable and Mobile Devices at the 1st International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2002), (eds) T. Finin and F. Perich, July 2002.
46. Krishnaswamy, S., Loke, S.W., and Zaslavsky, A. **Application Run Time Estimation: A QoS Metric for Web-based Data Mining Service Provider**. Proceedings of the 17th ACM Symposium on Applied Computing (ACM SAC) 2002 in the Special Track on WWW and E-business Applications. Madrid, Spain, March 10-14, ACM Press.

47. Krishnaswamy, S., Loke, S.W., and Zaslavsky, A. **Supporting the Optimisation of Distributed Data Mining by Predicting Application Run Times**. Proceedings of the Fourth International Conference on Enterprise Information Systems (ICEIS 2002), April 3-6, Ciudad Real, Spain, pages 374-381. Also *published as a book chapter*: Krishnaswamy, S., Loke, S. W., and Zaslavsky, A., (2002), **Supporting the Optimisation of Distributed Data Mining by Predicting Application Run Times**, Chapter in the book Enterprise Information Systems IV, (Eds) Piatting, M., Filipe, J., and Braz, J., Kluwer Academic Publishers, ISBN 1-4020-1086-9.
48. Krishnaswamy, S., Loke, S.W., and Zaslavsky, A. **Towards Anytime Anywhere Data Mining E-Services**. Proceedings of the Australian Data Mining Workshop at the 15th Australian Joint Conference on Artificial Intelligence, (eds) S.J. Simoff, G.J. Williams, and M. Hegland. Canberra, Australia, December 2002, pages 47 - 56, Published by the University of Technology Sydney. (ISBN 0-9750075-0-5)
49. Loke, S.W.. **Modelling Service-Providing Location-Based E-Communities and the Impact of User Mobility**. Proceedings of the 4th International Conference on Distributed Communities on the Web (DCW 2002), (eds) J. Plaice, P.G. Kropf, P. Schulthess, J. Slonim. Sydney, Australia, April 3-5, 2002, pages 266 - 277, Springer-Verlag, Lecture Notes in Computer Science 2468. (acceptance rate: 42.4%)
50. Krishnaswamy, S., Zaslavsky, A., and Loke, S.W. **Techniques for Estimating the Computation and Communication Costs of Distributed Data Mining**. Proceedings of the International Conference on Computational Science (ICCS 2002), Amsterdam, The Netherlands, (eds.) P.M.A. Sloot, C.J. Kenneth Tan, J.J. Dongarra, A.G. Hoekstra, April 21-24, 2002, pages 603-612, Springer-Verlag, Lecture Notes in Computer Science 2329. (ISBN 3-540-43591-3)
51. Krishnaswamy, S., Zaslavsky, A., and Loke, S. W. **Predicting Application Run Times Using Rough Sets**. Proceedings of the 9th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2002), Annecy, France, July, IEEE Press, pp. 455-462.
52. Krishnaswamy, S., Zaslavsky, A., and Loke, S.W. **Internet Delivery of Distributed Data Mining Services: Architectures, Issues and Prospects**, chapter 7 in the book "Architectural Issues of Web-enabled Electronic Business", Murthy, V.K. and Shi, N. (eds.), 2003, pages 113 - 127, Idea Group Publishing.
53. Loke, S.W. and Zaslavsky, A. **Mobile Agent Supported Cooperative Work: The ITAG Scripting Language Approach**, chapter 9 in the book "Agent Supported Cooperative Work", Ye, Y. and Churchill, E (eds.), 2003, pages 205 - 229, Kluwer Academic Publishers.
54. Loke, S.W. **An Exploration of Agent Assistance for Physical Marketplaces: Proximity-Based Reverse Auctions**. Proceedings of the International Conference on Intelligent Agents, Web Technologies and Internet Commerce - IAWTIC2003, Vienna, Austria, (ed.) M. Mohammadian, February, 2003, pages 124 - 135. (ISBN 1740880692)
55. Loke, S.W. **The A-Team Design Pattern: Useful Properties for Using Teams of Mobile Agents**. Proceedings of the International Conference on Intelligent Agents, Web Technologies and Internet Commerce - IAWTIC2003, Vienna, Austria, (ed.) M. Mohammadian, February, 2003, pages 433 - 438. (ISBN 1740880692)

56. S. Ling and S.W. Loke. **A Formal Compositional Model of Multiagent Interaction**. Proceedings 2nd International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS2003), Melbourne, Australia, 2003, ACM Press, pages 1052-53.
57. Padovitz, A., Loke, S.W., and Zaslavsky, A. **Using Publish-Subscribe Event Based Systems for Mobile Agents Communication**. Proceedings of the 1st German Conference on MultiAgent System Technologies (MATES 2003), Erfurt, Germany, (eds.) M. Schillo, M. Klusch, J. Muller, and H. Tianfield, September, 2003, pages 180 - 191, Springer-Verlag, Lecture Notes in Artificial Intelligence 2831. (ISBN 3-540-20124-6) (acceptance rate: 37%)
58. Ling, S. and S.W. Loke, S.W. **Engineering Multiagent Systems Based on Interaction Protocols: A Compositional Petri Net Approach**. Proceedings of the 5th International Conference on Enterprise Information Systems (ICEIS 2003), Anger, France, 2003, pages 42 - 48. Also appears as book chapter in Enterprise Information Systems V, ISBN 1-4020-1726-X, Kluwer Academic Publishers.
59. Ling, S. and Loke, S.W. **MIP-Nets: A Compositional Model of Multiagent Interaction**. In Multiagent Systems and Applications 3, Proceedings of the 3rd International/Central and Eastern European Conference on Multiagent Systems (CEEMAS 2003), Prague, Czech Republic, LNAI 2691, Springer-Verlag, pp. 61-72.
60. Padovitz, A., Zaslavsky, A., and Loke, S.W. **Awareness and Agility for Autonomic Distributed Systems: Platform-Independent Publish-Subscribe Event-Based Communication with Mobile Agents**. Proceedings of the 1st International Workshop on Autonomic Computing Systems, at DEXA 2003, Prague, Czech Republic, (eds.) M.T. Ibrahim, J.A. McCann, T. Eymann, and K. Iwano, September, 2003, pages 669 - 673, IEEE Computer Society. (attempts to apply work in the MATES2003 paper to autonomic systems!)
61. Loke, S.W., and Zaslavsky, A. **Communicative Acts of Elvin-Enhanced Mobile Agents** (4-page short paper). Proceedings of the IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Halifax, Canada, October 2003, pp. 446-449, IEEE Computer Society Press.
62. Jayaputera, G., Loke, S.W., and Zaslavsky, A. **Mission Impossible? Automatically Assembling Agents from High-Level Task Descriptions**. Proceedings of the IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Halifax, Canada, October 2003, pp. 161-167, IEEE Computer Society Press. (acceptance rate: 23%)
63. Phung, T., Loke, S.W., and Harland, J. **Achieving Flexibility Using Structured Goals: the Case of Itinerant Mobile Agents** (4-page short paper). Proceedings of the IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Halifax, Canada, October 2003, pp. 562-565, IEEE Computer Society Press.
64. Krishnaswamy, S. and Loke, S.W. **Towards Datacentric Grid Services: Cost Estimable Skeleton-Based Data Intensive Computations Executed Using Mobile Agents**. Proceedings of the Workshop on Knowledge Grid and Grid Intelligence at the 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Halifax, Canada, October 2003. (very much building from the initial ideas in the CCGRID2003 workshop paper)

65. Wickramasinghe, L.K., Loke, S.W., Zaslavsky, A., and Alahakoon, L.D. **A-GATE: A System of Relay and Translation Gateways for Communication Among Heterogeneous Agents in Ad Hoc Wireless Environments**. Proceedings of the 4th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS 2003), Paris, France, (eds.) J-B. Stefani, I. Demeure, and D. Hagimont, November, 2003, pages 212 - 223, Springer-Verlag, Lecture Notes in Computer Science 2893. (ISBN 3-540-20529-2) (acceptance rate: 24%)
66. Loke, S.W., Padovitz, A. and Zaslavsky, A. **Context-Based Addressing: the Concept and an Implementation for Large-Scale Mobile Agent Systems Using Publish-Subscribe Event Notification**. Proceedings of the 4th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS 2003), Paris, France, (eds.) J-B. Stefani, I. Demeure, and D. Hagimont, November, 2003, pages 274 - 284, Springer-Verlag, Lecture Notes in Computer Science 2893. (ISBN 3-540-20529-2) (acceptance rate: 24%)
67. Jayaputera, G., Zaslavsky, A., and Loke, S.W. **A Mission-Based Multiagent System for Internet Applications**. Proceedings of the 5th International Conference on Enterprise Information Systems, Angers, France, April 2003, pp. 232-237, ICEIS Press.
68. Jayaputera, G., Alahakoon, O., Cruz, L., Loke, S.W., and Zaslavsky, A. **Assembling Agents On-Demand for Pervasive Wireless Services**. Proceedings of the 2nd International Workshop on Wireless Information Systems at ICEIS2003, Angers, France, April 2003, pp. 21-30, ICEIS Press.
69. Jayaputera, G., Loke, S.W., and Zaslavsky, A. **Adding Value to Marketplaces by Assembling Location-Aware Agents On-Demand**. Proceedings of the 2nd International Conference on Mobile Business (2003), Vienna, Austria, (eds.) G.M. Giaglis, H. Werthner, V. Tschammer, and K.A. Froeschl, June 2003.
70. Loke, S.W. **Service-Oriented Device Ecology Workflows (PDF is an early version)**. Proceedings of the International Conference on Service-Oriented Computing, (eds.) M. Orłowska, S. Weerawarana, M.P. Papazoglou, and J. Yang, Trento, Italy, December 2003, pp. 559-574, Springer-Verlag, Lecture Notes in Computer Science 2910. (acceptance rate: 21%)
71. Padovitz, A., Krishnaswamy, S., and Loke, S.W. **Towards Efficient and Smart Selection of Web Service Providers Before Activation**. Proceedings of the Workshop on Web Services and Agent-based Engineering (WSABE-2003), held in conjunction with AAMAS-2003, Melbourne, Australia, 2003.
72. Loke, S.W. **Proactive and Reactive Discovery, Composition, and Activation of Localized Services Accessed from Mobile Devices (short paper)**. (Reviewed and accepted, but was unable to attend) Online proceedings of the (AI2IA 2003), AI Moves to IA: Workshop on Artificial Intelligence, Information Access, and Mobile Computing, August 2003. Paper available online.
73. Krishnaswamy, S., Zaslavsky, A., and Loke, S. W., (2004), **Estimating Computation Times to Support Scheduling of Data Intensive Applications**, Journal of IEEE Distributed Systems Online (Special issue on Data Management, I/O Techniques and Storage Systems for Large-scale Data Intensive Applications), February 2004, ISSN:

1541-4922.

(full citations to come for the following...)

74. Loke, S.W. **Towards Data-Parallel Skeletons for Grid Computing: An Itinerant Mobile Agent Approach**(*short paper/research statement*). Proceedings of the 3rd International Workshop on Agent Based Cluster and Grid Computing (at CCGRID 2003).
75. Ling, S. and Loke, S.W. **A Component-based Approach to Modelling Interaction Protocols for Multiagent Systems**. Proceedings of the International Conference on Integrated Design and Process Technology (IDPT 2003), Austin, Texas, USA. (to be published).
76. Krishnaswamy, S., Zaslavsky, A., and Loke, S, W. **Estimating Computation Times in Data Intensive E-Services**. Proceedings of the 4th International Conference on Web Information Systems Engineering (WISE 2003), IEEE Press, Rome, Italy, December. (acceptance rate: 25%)
77. Sutandiyono, W., Chhetri, M, B., Krishnaswamy, S., and Loke, S, W. **From m-Gaia to Grasshopper: Engineering Mobile Agent Applications**. Accepted for publication in the Fifth International Conference on Information Integration and Web-based Applications and Services (IIWAS 2003), Jakarta, Indonesia, September.
78. Alahakoon, O., Zaslavsky, A., and Loke, S.W. **Modular and Hierarchical User Profile Instantiation for E-commerce Applications Using Mobile Software Agents**. Accepted at 14th Australasian Conference on Information Systems (ACIS 2003).
79. Loke, S.W. and Zaslavsky, A. **Integrated Ambient Services as Enhancement to Physical Marketplaces**. Accepted at HICSS-37 2004 minitrack on Mobile Distributed Information Systems.
80. Krishnaswamy, S., Loke, S, W., and Zaslavsky, A. **Efficient Prediction of Quality of Service for Data Mining Web Services**. Proceedings of the 3rd International Conference on Electronic Business (ICEB 2003), Singapore, December.
81. Krishnaswamy, S. and Loke, S.W. **Towards Data Intensive Application Services on Datacentric Grids**. Proceedings of the 1st International Conference on Service Oriented Computing (ICSOC 2003) (short paper for forum).
82. Naing, T.T., Loke, S.W. and Krishnaswamy, S. **A Service-Domain Based Approach to Computing Ambient Services**. Proceedings of the 1st International Conference on Service Oriented Computing (ICSOC 2003) (short paper for forum).
83. Krishnaswamy, S., Zaslavsky, A., and Loke, S, W. **A Hybrid Model for Optimising Distributed Data Mining**, Proceedings of the 5th International Workshop on Distributed Computing (IWDC 2003), Lecture Notes in Computer Science (LNCS), Springer-Verlag, Kolkata, India, December. (acceptance rate: 31.4%)
84. Syukur, E., Cooney, D., Loke ,S.W., and Stanski, P. **Hanging Services: An Investigation of Context-Sensitivity and Mobile Code for Localised Services**. Proceedings of the 2004 IEEE International Conference on Mobile Data Management (MDM 2004). (acceptance rate: 25%,30/120)

85. Padovitz, A., Loke, S. W., and Krishnaswamy, S. **Performance Evaluation of Models for Dynamic Selection of Web Services**. Proceedings of the 11th International Conference on Advanced Computing (ADCOM 2003), Coimbatore, India, December.
86. Syukur, E., Loke, S.W., and Stanski, P. **Performance Issues in an Infrastructure for Mobile Hanging Services**. Proceedings of the International Conference on Mobile and Ubiquitous Computing 2004.
87. Kalepu, S., Loke, S.W., and Krishnaswamy, S. **Verity: A QoS Metric for Selecting Web Services and Providers**. Proceedings of the WQW2003.
88. Padovitz, A., Loke, S.W., and Zaslavsky, A. **Towards a Theory of Context Spaces**. Proceedings of CoMoRea 2004. See also IEEEExplore.
89. Soe, T.A., Krishnaswamy, S, Loke, S.W., Indrawan, M. and Sethi, D. **AgentUDM: A Mobile Agent Based Support Infrastructure for Ubiquitous Data Mining**. Proceedings of AINA 2004.
90. Chhetri, M.B., Loke, S.W., and Krishnaswamy, S. **Mobile Agents as Smart Virtual Counterparts**. Proceedings of AINA 2004.
91. Loke, S.W., Krishnaswamy, S., and Naing, T.T. **Service Domains for Ambient Services: Concept and Experimentation**. *Mobile Networks and Applications (MONET) 10(4)*, pp. 395-404, Kluwer Journal (Special Issue on Mobile Services). (very much extended version of the ICSOC2003 forum paper) Also here and here.
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