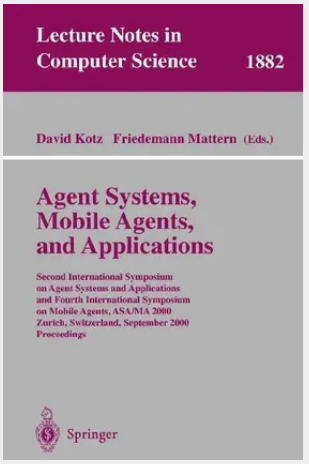
Kotz / Mattern

Agent Systems, Mobile Agents, and Applications

Second International Symposium on Agent Systems and Applications and Fourth International Symposium on Mobile Agents, ASA/MA 2000 Zurich, Switzerland, September 13-15, 2000 Proceedings



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ThisvolumecontainstheproceedingsoftheSecondInternationalSymposium on Agent Systems and Applications and the Fourth International Symposium onMobile Agents.ASA/MA 2000tookplacein Zurich,Switzerland,atthe ETH (the Swiss Federal Institute of Technology) on September 13–15, 2000. In the age of information overload, agents have become an important p- gramming paradigm. Agents can act on behalf of users to collect, ?lter, and process information. They can act autonomously and react to changing en- ronments. Agents are deployed in di?erent settings, such as industrial control, Internet searching, personal assistance, network management, games, and many others. In our increasingly networked world, mobile code is another important p-grammingparadigm.Indistributed applicationsmobile code can improvespeed, ? exibility,structure,security,orthe ability to handle disconnection.Mobile code has been applied to mobile computing, wireless networks, active networks, m-ufacturing,networkmanagement,resourcediscovery,softwaredisseminationand con? guration, and many other situations. Mobile agents combine the features of agents and mobile-code technologies, and present their own set of challenges. Their use is increasingly explored by an expanding industry.

Invited Talk.- Invited Talk (Abstract): Data or Computation - Which Should We Move?.- Migration.- Strong Mobility and Fine-Grained Resource Control in NOMADS.- Bytecode Transformation for Portable Thread Migration in Java.- Portable Support for Transparent Thread Migration in Java.- Security Issues of Mobile Agents.- Secure Mobile Agent-Based Merchant Brokering in Distributed Marketplaces.- Solving Fair Exchange with Mobile Agents.- Systems and Applications.- Principles of Mobile Maude.- Secure Dynamic Reconfiguration of Scalable CORBA Systems with Mobile Agents.- The Bond Agent System and Applications.- Mobile Agent Application.- MobiDoc: A Framework for Building Mobile Compound Documents from Hierarchical Mobile Agents.- Distributed Collaborations Using Network Mobile Agents.- Using Adaptation and Organisational Knowledge to Coordinate Mobile Agents.- Applications of Multi-agent Systems.- Multiple Agent-Based Autonomy for Satellite Constellations.- Saving Energy and Providing Value Added Services in Intelligent Buildings: A MAS Approach.- CarPAcities: Distributed Car Pool Agencies in Mobile Networks.- Communication and Mobility Control.- Quantitative Evaluation of Pairwise Interactions between Agents.- A Reliable Message Delivery Protocol for Mobile Agents.- Monitoring-Based Dynamic Relocation of Components in FarGo.- Cooperation and Interaction.- Agent-Based Negotiations for Multi-provider Interactions.- Modeling Soccer-Robots Strategies through Conversation Policies.- Using Intelligent Agents and a Personal Knowledge Management Application.

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Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)