Key Characteristics of Software Agents

- Autonomy
- Collaboration and Competition
- Learning
- Goal-Driven
- Adaptiveness
- Communication

[Software Agents](#)

J Ma

Software Agents:

   Software Agents for Future Communication Systems Alex Hayzelden,John Bigham,2012-12-06 Agent technology has recently become one of the most vibrant and fastest growing areas in information technology And advanced digital communicatiion is a central enabling technology for the coming information society So software agents and their exploitation for future communication systems are attracting particular attention from the research and development community as well as from economic and user communities interested in everyday private and professional digital communication applications This monograph like anthology is the first systematic introduction to software agents and future communication systems Fifteen coherently written chapters by leading software agent researchers provide complementary coverage of the relevant issues Multi agent systems and mobile agent approaches are presented in a well balanced way and applied to most important topics in future communication systems In addition the volume editors have provided a detailed introductory survey chapters

   Internet Commerce and Software Agents Syed Mahbubur Rahman,Robert J. Bignall,2001-01-01 The Internet is revolutionizing retail merchandising and shopping Software agents are capable of automating the more routine tedious and time consuming tasks involved in the trading process Internet Commerce and Software Agents Cases Technologies and Opportunities addresses some major Internet commerce issues and the challenges to be met in achieving automated and secure Internet trading   **Software-Agents and Liberal Order** Dirk Nicolas Wagner,2001 Liberal order and software agents long established ideas and modern technology are bridged The impulse for undertaking this effort comes from the observation that it becomes difficult for computer science alone to create order for and within machines The growing complexity of computer systems open networks like the Internet and the increasingly social role of software entities push the traditional quest for total global control out of reach Economic theory of social order offers extensive experience with such conditions so that it can complement and guide research in computer science It is shown that a common understanding between economics and computer science s sub field of distributed artificial intelligence is possible on the level of software agents On this basis four fundamental problems of social order are encircled first the requirement to overcome and prevent state of nature situations in the sense of Thomas Hobbes second the necessity to accommodate unpredictable individual actors third the challenge of exiting the small worlds of traditional software systems and fourth the ambition to reach a transaction cost efficient social order Economics can contribute to an understanding and to possible solutions of these problems by unfolding the idea of liberal order for software agents In a systematic analysis that covers the order of rules the model of the individual actor and the order of actions it is shown that the conditions for liberal order can be created without exception in agent environments   **Customer-based IP Service Monitoring with Mobile Software Agents** Manuel Günter,2012-12-06 Presenting mobile software agents for Internet servic monitoring this research monograph discusses newly standardized Internet technologies that allow service providers to offer secured Internet services with quality

guarantees Yet today the customers of such services have no independent tool to verify monitor the service quality This book shows why mobile software agents are best fit to fill the gap The book is addressed to mobile agent researchers looking for new and fruitful application areas It will also be a valuable resource for innovative Internet providers who are looking for a service monitoring infrastructure going beyond monthly reports <u>Designing Distributed Learning Environments with Intelligent Software Agents</u> Fuhua Oscar Lin,2005-01-01 Designing Distributed Learning Environments with Intelligent Software Agents reports on the most recent advances in agent technologies for distributed learning Chapters are devoted to the various aspects of intelligent software agents in distributed learning including the methodological and technical issues on where and how intelligent agents can contribute to meeting distributed learning needs today and tomorrow This book benefits the AI artificial intelligence and educational communities in their research and development offering new and interesting research issues surrounding the development of distributed learning environments in the Semantic Web age In addition the ideas presented in the book are applicable to other domains such as Agent Supported Web Services distributed business process and resource integration computer supported collaborative work CSCW and e Commerce *Intelligent Software Agents* Walter Brenner,Rüdiger Zarnekow,Hartmut Wittig,2012-12-06 2 chapter contains examples of intelligent agents arranged according to their appli cation areas Chapter 7 closes with a prospective view of the future development of intelligent agents Everyone concerned with the Internet and the new possibilities of information and communication technology knows that nowadays there is no area that is devel oping faster The authors are aware of the dynamics of this research area and its effects when they describe such a fast developing area in a slow traditional me dium like a book One thing is sure today when the book appears on the market new intelligent agents will already exist and some of the hypotheses made by this book will have been shown to be incorrect Why despite this does it make sense to write a classical book on this subject Is there an alternative Experience shows that the majority of the people in business and public life who make decisions on the use of new technologies continue to prefer books and articles in periodicals rather than electronic sources such as the Internet Or is there some other reason for the enormous success of Nicolas Negroponte s book Being Digital which we thank for multimedia and many concepts of the digital and networked world and even intelligent agents Today a book is still the only way to establish a new area **Software Agent-Based Applications, Platforms and Development Kits** Rainer Unland,Matthias Klusch,Monique Calisti,2006-01-27 This book introduces major agent platforms frameworks systems tools and applications Each system is described by their developers in sufficient detail so that the reader can get a good understanding of the architecture functionality and application areas of the system All systems are running systems One main focus of the book lies on agent platforms and toolkits **Applications of Software Agent Technology in the Health Care Domain** Antonio Moreno,John L. Nealon,2003-10-24 This volume contains a collection of papers that provides a unique novel and up to date overview of how software agents technology is being applied in very diverse problems in health

care ranging from community care to management of organ transplants It also provides an introductory survey that highlights the main issues to be taken into account when deploying agents in the health care area The intended audience includes graduate and postgraduate students specializing in artificial intelligence and researchers interested in the application of new technologies **Innovations in Computing Sciences and Software Engineering** Tarek Sobh,Khaled Elleithy,2010-06-26 Innovations in Computing Sciences and Software Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Topics Covered Image and Pattern Recognition Compression Image processing Signal Processing Architectures Signal Processing for Communication Signal Processing Implementation Speech Compression and Video Coding Architectures Languages and Systems Algorithms Databases Embedded Systems and Applications File Systems and I O Geographical Information Systems Kernel and OS Structures Knowledge Based Systems Modeling and Simulation Object Based Software Engineering Programming Languages and Programming Models and tools Parallel Processing Distributed Scheduling Multiprocessing Real time Systems Simulation Modeling and Development and Web Applications Signal and Image Processing Content Based Video Retrieval Character Recognition Incremental Learning for Speech Recognition Signal Processing Theory and Methods and Vision based Monitoring Systems Software and Systems Activity Based Software Estimation Algorithms Genetic Algorithms Information Systems Security Programming Languages Software Protection Techniques Software Protection Techniques and User Interfaces Distributed Processing Asynchronous Message Passing System Heterogeneous Software Environments Mobile Ad Hoc Networks Resource Allocation and Sensor Networks New trends in computing Computers for People of Special Needs Fuzzy Inference Human Computer Interaction Incremental Learning Internet based Computing Models Machine Intelligence Natural Language **Software Agents, Agent Systems and Their Applications** Mohamed Essaaidi,Maria Ganzha,Marcin Paprzycki,2012 Seen by many as the next revolution in software development for large complex distributed systems agent systems represent one of the more exciting research areas in computer science With the development of powerful personal devices the vision of a personal agent now seems increasingly appealing too It can even be claimed that intelligent software agents will eventually become an essential part of Web 4 0 Software agents are finding their way into areas such as environmental security climate change seismic safety epidemic prevention detection and response computer emergency response and human and societal dynamics Because these are of direct interest to the NATO Science for Peace and Security Program a NATO Advanced Study Institute ASI dealing with the subject was held in Tangier Morocco in September 2010 This book presents the content of that ASI This book is divided into three sections Foundations Applications and Student Papers Subjects covered include agent system modeling system design and experimentation sensor networks disaster management ehealth and medical emergencies management of UAVs and agents in the grid Agent systems security and the application of

agents in network security are also addressed and the final section includes participant presentations The book has been designed to be usable as a textbook for example in a graduate course covering software agents agent systems and their applications and will be of interest to all those involved in related fields **Software Agents** Stanford University. Center for Integrated Facility Engineering,1994 **Intelligent Software Agents** Richard Murch,Tony Johnson,1999 This book discusses the current state of the use and possible uses of intelligent agent technology *Industrial Agents* Paulo Leitão,Stamatis Karnouskos,2015-03-13 Industrial Agents explains how multi agent systems improve collaborative networks to offer dynamic service changes customization improved quality and reliability and flexible infrastructure Learn how these platforms can offer distributed intelligent management and control functions with communication cooperation and synchronization capabilities and also provide for the behavior specifications of the smart components of the system The book offers not only an introduction to industrial agents but also clarifies and positions the vision on going efforts example applications assessment and roadmap applicable to multiple industries This edited work is guided and co authored by leaders of the IEEE Technical Committee on Industrial Agents who represent both academic and industry perspectives and share the latest research along with their hands on experiences prototyping and deploying industrial agents in industrial scenarios Learn how new scientific approaches and technologies aggregate resources such next generation intelligent systems manual workplaces and information and material flow system Gain insight from experts presenting the latest academic and industry research on multi agent systems Explore multiple case studies and example applications showing industrial agents in a variety of scenarios Understand implementations across the enterprise from low level control systems to autonomous and collaborative management units **Software Agents for Future Communication Systems** Alex L. G. Hayzelden,John Bigham,1999 Agent technology has recently become one of the most vibrant and fastest growing areas in information technology And advanced digital communicatiion is a central enabling technology for the coming information society So software agents and their exploitation for future communication systems are attracting particular attention from the research and development community as well as from economic and user communities interested in everyday private and professional digital communication applications This monograph like anthology is the first systematic introduction to software agents and future communication systems Fifteen coherently written chapters by leading software agent researchers provide complementary coverage of the relevant issues Multi agent systems and mobile agent approaches are presented in a well balanced way and applied to most important topics in future communication systems In addition the volume editors have provided a detailed introductory survey chapters **Multiple Criteria Decision Making in Application Layer Networks** Frank Schneider,2010-12 Diploma Thesis from the year 2008 in the subject Computer Science Commercial Information Technology grade 1 3 University of Bayreuth Lehrstuhl f r Wirtschaftsinformatik BWL VII language English abstract This work is concerned with the conduct of Multiple Criteria Decision Making MCDM by intelligent software agents trading digital

commodities in Application Layer Networks ALN such as grids or clouds These agents consider trustworthiness in their course of negotiation and select offers with respect to product price and seller reputation To automate the selection process we seek an appropriate MCDM method that provides clear advice for an agent prior to negotiating We compare eleven well known MCDM methods and choose the TOPSIS approach of Hwang and Yoon since it produces comprehensible and plausible results with a justifiable amount of effort We modify the method and present a draft named xTOPSIS that promises intertemporal performance analysis for further automatation The resulting tool is finally tested and evaluated in the context of a scenario similar to the eRep Social Knowledge for e Governance project   Software Engineering for Multi-agent Systems ... ,2004   **Software Agents for Future Communication Systems** Alex Hayzelden,John Bigham,1999-05-04   **Software Agents and Soft Computing: Towards Enhancing Machine Intelligence** Hyacinth S. Nwana,1997-01-22 This carefully arranged book is mainly based on work done by the Intelligent Systems Research Group at BT Laboratories essentially in cooperation with internationally leading scientists from outside BT It opens with a detailed introduction surveying the area and putting the work presented in context Conceptual issues surrounding intelligent agents and multi agent systems are investigated and the practical and industrial applicability of this exciting new technology is demonstrated One section is devoted to the rationale philosophy and techniques of the emerging area of soft computing The final section outlines the broader context in dealing with machine intelligence in general and intelligent software systems in particular   *International Conference on Multi Agent Systems* IEEE Computer Society,1998 This volume on multi agent systems is suitable for researchers professors practitioners students and other computing professionals   **Geomatica** ,2002

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web in the mark of vishnu by khushwant singh we have the theme of tradition modernity faith loyalty respect and change taken from his collected stories collection the story is narrated in the first person by a young unnamed boy and after reading the story the reader realises that singh may be exploring the theme of tradition

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web the theme of the short story the mark of vishnu by khushwant singh is superstition and ignorance the main character gunga ram is both superstitious and ignorant he believes that by leaving a saucer full of milk for the snake to drink he is protecting the household from snake bites

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web the main characters in the short story the mark of vishnu by khushwant singh are gunga ram and the four schoolboys gunga ram is a servant in the household where the schoolboys live the four brothers go to school and receive a formal education since gunga ram is a servant the schoolboys make fun of him for his lack of education and