



Agent-Mediated Electronic Commerce

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Abstract. Electronic commerce has been one of the traditional arenas for agent technology. The complexity of these applications has been a challenge for researchers that have developed methodologies, products, and systems, having in mind the specificities of trade, the interaction particularities of commerce, the strict notion of commitment and contract, and the clearly shaped conventions and norms that structure the field. In this paper I survey some key areas for agent technology which, although general, are of special importance in electronic commerce, namely, solid development methodologies, negotiation technologies and trust-building mechanisms. I give examples of systems in which I have directly participated, although I also try to refer to the work of other AgentLink Special Interest Group members over the last few years.

Keywords: agent-mediated electronic commerce, organizational theory, mechanisms, trust and reputation.

1. Introduction

Society considers Information and Communication Technologies (ICT) as one of the most important transforming forces of the turning of the Century. There is a clear agreement that ICT have had a positive impact on productive growth, on productive capacity and on international competitiveness, through the reduction of transaction costs, the increased efficiency of management, and the interchange and access to more information. This is especially true for commerce. A direct consequence of the development of ICT has thus been a fundamental change in how enterprises and economies work.

A recent study by the United Nations [50] highlights three foci of attention to be considered by electronic commerce, with special importance placed on developing countries:

1. *Business process outsourcing (BPO):* The management of the supply chain has been a central concern for decades as the key element in reducing costs. Advances in network topology and increased bandwidth have made the outsourcing of services easier, so that companies can now offload entire business functions. BPO may reach \$585 billion in the next two years, where BPO varies from basic administrative tasks (such as data entry and billing) to complex tasks requiring decision-making and problem solving.
2. *Marketing agricultural exports:* Agricultural exports are key in many economies. These commodities' marketing chains involve many intermediaries that introduce inefficiencies in the system as the earnings are shared by a multitude of traders and processors, and producers receive only a small share of the final consumer price. Electronic commerce can allow producers to reach global markets at reduced

Agentmediated Electronic Commerce Iii

Frank Dignum, Ulises Cortes



Agent-mediated Electronic Commerce Iii:

Agent-Mediated Electronic Commerce III Frank Dignum, Ulises Cortes, 2003-06-29 In this book we present a collection of papers around the topic of Agent Mediated Electronic Commerce Most of the papers originate from the third workshop on Agent Mediated Electronic Commerce held in conjunction with the Autonomous Agents conference in June 2000 After two previous workshops one during the Autonomous Agents conference in 1998 in Minneapolis and the second one in conjunction with the International Joint Conference On Artificial Intelligence in 1999 this workshop continued the tradition of the previous ones by setting the scene for the assessment of the challenges that Agent Mediated Electronic Commerce faces as well as the opportunities it creates By focusing on agent mediated interactions specialists from different disciplines were brought together who contribute theoretical and application perspectives in the narrowly focused topic that nevertheless involves wide ranging concerns such as agent architectures institutionalization economic theory modeling legal frameworks and policy guidelines The main topics for the workshop were Electronic negotiation models for agents Formal issues for agents that operate in electronic market places Virtual trading institutions and platforms Trading strategies for interrelated transactions respectively auctions The workshop received 12 submissions of which 7 were selected for publication in this volume Although the number of submissions was less than expected for an important area like agent mediated electronic commerce there is no reason to worry that this area does not get enough attention from the agent community

Agent-Mediated Electronic Commerce IV. Designing Mechanisms and Systems Julian Padget, Onn Shehory, David Parkes, Norman Sadeh, William E. Walsh, 2003-08-03 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Agent Mediated Electronic Commerce AMEC 2002 held in Bologna Italy in July 2002 during the AAMAS 2002 conference The 20 revised full papers presented together with an introductory survey by the volume editors were carefully selected and improved during two rounds of reviewing and revision The book gives a unique overview of the state of the art of designing mechanisms and systems for agent mediated e commerce The papers are organized in topical sections on electronic auctions negotiations and electronic markets

Agent Mediated Electronic Commerce II

Alexandros Moukas, Carlos Sierra, Fredrik Ygge, 2007-01-01 The Internet is spawning many new markets and electronic commerce is changing many market conventions Not only are old commercial practices being adapted to the new conditions of immediacy brought forth by the global networks but new products and services as well as new practices are beginning to appear There is already ample evidence that agent based technologies will be crucial for these developments However many theoretical technological sociological and legal aspects will need to be addressed before such opportunities become a significant reality In addition to streamlining traditional transactions agents enable new types of transactions For example the elusive one to one marketing becomes more of a reality when consumer agents capture and share or sell consumer demographics Prices and other transaction dimensions need no longer to be fixed selling agents can dynamically tailor

merchant offerings to each consumer Economies of scale become feasible in new markets when agents negotiate on special arbitration contracts Dynamic business relationships will give rise to more competitively agile organizations It is these new opportunities combined with substantial reduction in transaction costs that will revolutionize electronic commerce

Agent-Mediated Electronic Commerce. Automated Negotiation and Strategy Design for Electronic Markets

Maria Fasli, Onn Shehory, 2007-06-06 This book constitutes the thoroughly refereed post proceedings of the joint International Workshops on Trading Agent Design and Analysis TADA 2006 and on Agent Mediated Electronic Commerce AMEC VIII 2006 held in Hakodate Japan The papers address a mix of both theoretical and practical issues in trading agent design and technologies theoretical and empirical evaluation of strategies in complex trading scenarios as well as mechanism design

Agent-Mediated Electronic Commerce. Designing Trading Agents and Mechanisms Han La Poutré, Norman Sadeh, Sverker Janson, 2006-10-11 This book constitutes the thoroughly refereed post proceedings of the 7th International Workshop on Agent Mediated Electronic Commerce AMEC VII 2005 held in Utrecht Netherlands in July 2005 as part of AAMAS 2005 and the third Workshop on Trading Agent Design and Analysis TADA 2005 held in Edinburgh UK in August 2005 in the course of the IJCAI 2005 conference meetings The seven revised full AMEC 2005 papers presented were carefully selected

Agent Mediated Electronic Commerce Pablo Noriega, Carles Sierra, 2003-06-29 Electronic Commerce as a gamut of activities involving electronic transactions performed over a network via software that may be more or less autonomous is an emerging reality Strategic studies have shown that electronic commerce is a major growth industry The book is devoted to the challenges and opportunities that electronic commerce opens for agent technology For some time electronic commerce has attracted the avid attention of agent builders and agent technology researchers and these have decisively contributed to advancing the state of the art in the field The second generation software agents now entering the scene hold great promise for the further advancement of electronic commerce This book originates from a workshop on Agent Mediated Electronic Trading held at Agents 98 in Minneapolis Minnesota in May 1998 The eleven carefully reviewed and revised papers present a unique survey of software agents in the context of electronic commerce

Agent Mediated Electronic Commerce, 2002 Vol for 1998 consists of selected papers from proceedings of the International Workshop on Agent Mediated Electronic Trading

Agent-Mediated Electronic Commerce III Frank Dignum, Ulises Cortes, 2001-02-21 This book presents 12 revised full papers on Agent Mediated Electronic Commerce seven papers were initially presented at the AMEC 2000 Workshop and the five others were solicited by the volume editors in order to achieve competent coverage of all relevant topics The book is divided in topical sections on electronic negotiation models for agents formal issues for agents operating on electronic market places virtual trading institutions and platforms and trading strategies for interrelated transactions

Agent-Mediated Electronic Commerce III Frank Dignum, Ulises Cortes, 2014-01-15 **Journal of Research and Practice in Information Technology**, 2004 **Directory of Published Proceedings**, 2002 *EAdoption and the*

Knowledge Economy Paul M. Cunningham, Miriam Cunningham, 2004 Proceedings ,2002 *DATA&KNOWLEDGE ENGINEERING* ,2002 *Engineering of Computer-based Systems* IEEE Computer Society. Technical Committee on the Engineering of Computer Based Systems, 2002 Papers from an April 2002 conference 25 in all report on academic achievements and industrial applications in the engineering of computer based systems Contributors represent some 12 countries and a variety of application domains Papers deal with themes of requirements engineering processes and tools system properties and methods modeling and analysis system architecture model based system development component based design and reuse embedded systems and mobile agents Specific topics include an intelligent agent security intrusion system managing complex temporal requirements in real time control systems using category theory to model software component dependencies and advanced Petri nets for modeling mobile agent enabled interorganizational workflows There is no subject index Annotation copyrighted by Book News Inc Portland OR **Advances in Artificial Intelligence** ,2004
Decision Support Systems and Electronic Commerce ,2002-12 **International Electronic Conference on Computer Science** Theodore E. Simos, George Psihoyios, 2008-12-02 The aim of IeCCS 2007 is to bring together leading scientists of the international Computer Science community and to attract original research papers of very high quality The topics to be covered include but are not limited to Numerical Analysis Scientific Computation Computational Mathematics Mathematical Software Programming Techniques and Languages Parallel Algorithms and its Applications Symbolic and Algebraic Manipulation Analysis of Algorithms Problem Complexity Mathematical Logic Formal Languages Data Structures Data Bases Information Systems Artificial Intelligence Expert Systems Simulation and Modeling Computer Graphics Software Engineering Image Processing Computer Applications Hardware Computer Systems Organization Software Data Theory of Computation Mathematics of Computing Information Systems Computing Methodologies Computer Applications Computing Milieu see <http://www.ieccs.net/topics.htm> *Agent-oriented Software Engineering ...* ,2002 Conceptual Structures ,2001

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