

Intelligent Agents in Telecommunications

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ABSTRACT

The underlying fabric for communication among intelligent agents will in many cases be provided by telecommunication networks. But telecommunication networks have been seen as a natural domain for the investigation and application of intelligent agents' technology as it emerged from the area of Distributed Artificial Intelligence (DAI). Telecommunication network administrators are vast organizations dedicated to operating and managing networks with broad functional segmentations: telephone network outside plant, switching and transmission plants, public network, all supporting different layers of specialized customer or service networks. These networks are organized into multiple physical and logical layers both with large quantities of repeated network elements and sub network structures. All these elements need to be configured, monitored, and controlled. In the future, this will probably be done by automated operation support systems and without substantial human intervention.

Keywords

Distributed Artificial Intelligence (DAI), Telecommunication network administrators.

INTRODUCTION

The telecommunication networks have been seen as a natural domain for the investigation and application of intelligent agents' technology as it emerged from the area of Distributed Artificial Intelligence (DAI). Telecommunication network administrators are vast organizations dedicated to operating and managing networks with broad functional segmentations: telephone network outside plant, switching and transmission plants, public network, all supporting different layers of specialized customer or service networks. These networks are organized into multiple physical and logical layers both with large quantities of repeated network elements and sub network structures. All these elements need to be configured, monitored, and controlled. In the future, this will probably be done by automated operation support systems and without substantial human intervention.

Although many recent efforts in applying DAI techniques have come from the telecommunications industry, the legacy information infrastructures that service interoperations in this industry has so far dampened immediate attempts at introducing DAI-based systems in the field. Consequently, the experimental DAI-based systems that have been developed for telecommunications have been primarily aimed at future networks and laboratory environments.

This paper presents a brief survey of recent efforts in applying DAI to telecommunications including some of our specific experiences with such applications. Applications and domain descriptions then take precedence over focused analytical study of the corresponding agent systems and their theoretical justifications.

Our communication engineering and automated 'coarse-grained' co-operative agent perspective leads us to omit treatment of human-computer interaction themes, 'information agents,' etc. Thus, we do not consider here applications based on mobile agents and scripting languages such as offered by Java and Tcl/Tk, which lack explicit support for co-operative behavior, even though these types of agents have received a lot of attention in the telecommunications domain over the last couple of years. This is not to say that this technology is not promising. In fact, the commercial application of mobile agents and scripting languages may be closer than that of intelligent, co-operative agents.

Overview of Distributed Artificial Intelligence (DAI) and Telecommunications

After providing the basic rationale for DAI and telecommunications, this section briefly surveys the field with a small classification that also serves to ground the bibliography.

Rationale for DAI in Telecommunications

Subnet distribution and interconnectedness of telecommunication networks and their constituent components provide the basic rationale for DAI approaches to the solution

Studies In Health Technology And Informatics 36

Intelligent Agents For Telecommunications Applications

Kumar, A.V. Senthil,Rahman, Hakikur



Studies In Health Technology And Informatics 36 Intelligent Agents For Telecommunications Applications:

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

Context-Aware Communication and

Computing: Applications for Smart Environment Punnarumol Temdee, Ramjee Prasad, 2017-06-29 This book introduces context aware computing providing definitions categories characteristics and context awareness itself and discussing its applications with a particular focus on smart learning environments It also examines the elements of a context aware system including acquisition modelling reasoning and distribution of context It also reviews applications of context aware computing both past and present to offer readers the knowledge needed to critically analyse how context awareness can be put to use It is particularly to those new to the subject area who are interested in learning how to develop context aware computing oriented applications as well as postgraduates and researchers in computer engineering communications engineering related areas of information technology IT Further it provides practical know how for professionals working in IT support and technology consultants and business decision makers and those working in the medical human and social sciences

Mobile Agents For Telecommunications Applications: Proceedings Of The First International Workshop Ahmed Karmouch, Roger Impey, 1999-09-24 A software agent has a spectrum of definitions At one end of the scale are relatively simple client based software applications that can assist users in performing mundane tasks such as sorting e mail or downloading web pages This class of agents is often referred to as personal assistant agents At the other end of the scale is the concept of sophisticated software entities possessing artificial intelligence that autonomously travel through a network environment and make complex decisions on a user s behalf In telecommunications the definition lies somewhere between those two extremes This classification of mobile agents although not strictly adhering to the definition of intelligent agents originally proposed by the artificial intelligence community is generally acknowledged to be a useful categorization and has started to gain widespread acceptance We therefore define a mobile agent as a program that acts on behalf of a user or another program and is able to migrate from host to host on a network under its own control The agent chooses when and where it will migrate and may interrupt its own execution and continue elsewhere on the network The agent returns results and messages in an asynchronous fashion This volume discusses the emerging field of mobile software agents and their applications to the area of telecommunications such as active networks e commerce the Internet interactive QoS network management and feature interactions It addresses the needs of a wide audience including researchers software agent

systems and telecommunication applications designers and users of software agents

Information and Communication Technologies for Ageing Well and e-Health Martina Ziefle, María Dolores Lozano, Maurice Mulvenna, 2024-07-25 This book constitutes the refereed post conference proceedings of the 9th International Conference ICT4AWE 2023 held in Prague Czech Republic during April 22-24 2023 The 9 full papers of ICT4AWE 2023 included in this book were carefully reviewed and selected from 39 submissions They focus on current research in Information and Communication Technologies for Ageing Well and e Health such as data and real time analytics health information systems decision support systems computer vision and healthcare robotics medical data science technologies Internet of Things and smart devices for independent living human communication and behavioural studies of senior citizens home care monitoring systems health geography cultural issues and emergency and alerts handling

Intelligent Information Technologies: Concepts, Methodologies, Tools, and Applications Sugumaran, Vijayan, 2007-11-30 This set compiles more than 240 chapters from the world's leading experts to provide a foundational body of research to drive further evolution and innovation of these next generation technologies and their applications of which scientific technological and commercial communities have only begun to scratch the surface

Emerging Communication Technologies for E-Health and Medicine Rodrigues, Joel J.P.C., 2012-04-30 According to the World Health Organisation WHO e health is the combined use of electronic communication and information technology in the health sector and moreover it enables a safer higher quality more equitable and sustainable health system Emerging Communication Technologies for E Health and Medicine is a fundamental source for the advancement of knowledge application and practice in the interdisciplinary areas of healthcare e health m health u health sensors biomedical engineering and telemedicine Due to its grounding in research and theory evidence this book is designed for use in graduate courses in health management medicine nursing health professionals and medical informatics The book can help to e health contents applications and interesting experiences It is an important way to communicate e health concepts

Mobile Computing Techniques in Emerging Markets: Systems, Applications and Services Kumar, A.V. Senthil, Rahman, Hakikur, 2012-01-31 This book provides the latest research and best practices in the field of mobile computing offering theoretical and pragmatic viewpoints on mobile computing Provided by publisher

Navigating Healthcare Through Challenging Times Günter Schreier, 2021-06-15 Aside from the dramatic effects that the COVID 19 pandemic has had on the lives of people everywhere it has also triggered and accelerated some important process changes in healthcare Digital health has become ever more important supporting test strategies and contact tracing statistical analysis prognostic modeling and vaccination roll out and documentation Video calls have become more common and it seems likely that all these changes will continue to influence healthcare in the longer term This book presents the proceedings of dHealth 2021 the 15th annual conference on Health Informatics Meets Digital Health held as a virtual conference on 11-12 May 2021 The dHealth conference is where research and application meet as equals and the conference series has been contributing to scientific

exchange and networking since 2007 The 2021 edition is the second that has been organized virtually Each year this event attracts 300 participants from academia industry government and healthcare organizations and provides a platform for researchers practitioners decision makers and vendors to discuss innovative health informatics and dHealth solutions with the aim of improving the quality and efficiency of healthcare The 24 papers included here offer an insight into the research on digital health conducted during the COVID 19 crisis and topics include the management of infectious diseases telehealth services standardization and interoperability in healthcare nursing informatics data analytics predictive modeling and digital tools for rare disease research The book provides new healthcare insights from both science and practice and will be of interest to all those working in healthcare Mobile Computing: Concepts, Methodologies, Tools, and Applications Taniar, David,2008-11-30 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher **Future of Intelligent and Extelligent Health Environment** Renata Glowacka Bushko,2005 Human body and the world in which it functions is a changing complex adaptive system We are able to collect data about it but the challenge is to infer local dynamics from that data Intelligent Caring Biomechatronic Creatures and Healthmaticians have a better chance of inferring the dynamics that needs to be understood than human physicians

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