

## **Call for Papers KES-AMSTA-2010**

### **Digital Economy Special Session (DE 2010)** of the 4th International KES Symposium on Agents and Multi-Agent Systems – Technologies and Applications

23 - 25 June 2010

Gdynia, Poland

<http://amsta-10.kesinternational.org>

#### **Key words**

Digital Economy, Business Models, Business Intelligence, Trading Agents, Virtual Organisations, Distributed Systems

#### **Background**

This is an Era for a Digital Economy. The Web is rapidly developing towards an environment that is physically distributed; control decentralised and run by self-motivated software systems. This provides a unique and exciting opportunity that could potentially revolutionise entirely the conventional ways of doing business.

In parallel, the Internet has attracted a critical mass of subscriptions, from both businesses and individuals, where the Internet is used for information exchange, facilitating collaboration and cooperation, and carrying out e-Commerce and e-Business activities. Virtual organisations and automated e-commerce operations are a reality today. However, true autonomous trading systems that have full decision-making power rather than limited pre-determined operations are not available yet.

What are the relevant business and technological obstacles in achieving this? What are the make and break factors? What business intelligences are needed in such autonomous business systems? What types of system architecture are suitable for facilitating and encouraging such autonomous business systems? Can supply chain be fully automated? Are trust and security issues an obstacle for such automated systems? What are the existing technologies that one can draw on to overcome these obstacles? Can semantics-based technologies capture and enrich the relevant business knowledge thus enhance the decision making power and capabilities of such autonomous systems? Are (logical) reasoning mechanisms helpful? If so, what are their strengths and weakness? What types of system architectures are suitable, e.g. from a complete peer to peer architecture to a tightly (controlled) controlled systems, for creating ideal electronic environment for a virtual e-commerce market? What are their strengths and weakness?

#### **Topics**

This special session welcome reports on computational, business and social issues related to the above topics. It will focus on recent research and application results. The papers should have significant 'intelligent systems' content.

A list of interested topics for this session, but not limited to, is provided below:

- Vision on novel advances of automated intelligent business agents and e-Commerce
- Technologies and applications on Business Intelligence

- Modelling and simulation of business processes
- Service Oriented Architecture for business processes
- e-Supply Chains
- e-Logistics
- Supply Chain Configuration
- Agile Supply Chains
- Supply Chain Event Management
- e-Procurement
- e-Sourcing
- Vision and discussion papers on Digital Economy
- Novel business models and automations in the Digital Economy
- e-Business standards
- Enterprise Architecture and implementation issues
- Interaction, collaboration and negotiation models
- Trading agents
- Risk and knowledge management
- Semantic Web technologies
- Dynamic organisational issues and distributed agents
- Scalability issues in (fully) automated trading environments
- Real-world applications and business scenarios

### **Instructions for Authors**

Submitted papers must follow the format requirements as detailed in the “Information for LNCS Authors” section, available from the web site

<http://www.springer.com/computer/lncs?SGWID=0-164-7-72376-0>.

Please note that the maximum paper length is 10 pages. Papers longer than this are subject to a penalty charge, or may be rejected as a main cause, if considered excessively long by the KES organizers. All accepted papers must be presented by one of the authors, who must register for the conference and pay the fees.

All papers should be submitted electronically using the software reviewing system, Prose, indicated at the above conference web site.

### **Publication**

The conference proceedings will be published by Springer-Verlag in the LNAI series. Extended versions of selected papers will be considered for publication in special issues in the some prestigious international journals.

### **Important Dates**

Submission of papers: Feb. 5, 2010

Notification of acceptance: Feb. 28, 2010 (extended)

Camera-Ready papers to be received by: **Mar. 10, 2010 (extended)**

### **Special Session Chairs**

Dr. Arkadiusz Kawa, The Poznań University of Economics, Poland,

[arkadiusz.kawa@ue.poznan.pl](mailto:arkadiusz.kawa@ue.poznan.pl)

Dr. Yun-Heh (Jessica) Chen-Burger, The University of Edinburgh, UK, [jessicac@inf.ed.ac.uk](mailto:jessicac@inf.ed.ac.uk)

Mr. Konrad Fuks, The Poznań University of Economics, Poland, [konrad.fuks@ue.poznan.pl](mailto:konrad.fuks@ue.poznan.pl)