



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Business Economics and Agent-based Modeling

Name of Chair:

Prof. Hiroshi Takahashi, Keio University, Japan (htaka@kbs.keio.ac.jp)

Co-Chair:

Prof. Takao Terano, Chiba University of Commerce, Japan (terano@cuc.ac.jp)

Prof. Setsuya Kurahashi, University of Tsukuba (kurahashi.setsuya.gf@u.tsukuba.ac.jp)

Details of Session:

This organized session aims to discuss the cutting-edge techniques for business economics through agent-based modelling and their applications to business task domains. Business Economics, Business Informatics, Serious Game, and Data Analysis have been successfully applied to various problems such as management systems, finance, service sciences, manufacturing industries, and so on.

However, the concepts of business economics and agent based systems to enhance the capabilities of conventional techniques have not been investigated adequately. Our focus on business economics is to manage the issues of firms and organizations for getting profit on interaction with human- and computer- mixed systems, while such a focus is also fundamental for agent-based research for complex but bounded rational business environments.

The main purpose of this session on 'Business Economics and Agent-based Modelling' is to bring together the communities of Business Economics, Machine Learning and Agent-based Modeling to exchange latest results, to join efforts in solving the common challenges, to establish effective communication between researchers and developers involved in both areas to create a worthwhile synergy.

The topics include but are not limited to:

Business Economics

Agent-Based Computational Economics & Finance

Agent-Based Computational Organizational Theory

Business Informatics

Issues and Case Studies on Business and Finance Problems

Gaming Simulation on Social and Business Problems

Collective Intelligence and Human Computation on Social Problems

Participatory Design and Simulation on Social Problems

Simulators for Macroeconomic Policy

Valuation and Asset Pricing

Corporate Governance and Regulation

Discrete Choice Models in Economics and Management Sciences

Emergence and Dynamics of Norms and Conventions

Financial Market models and Auction

Dynamics of Complex, Social and Economic Networks

Complexity and Market Dynamics

Health and Infectious Diseases

Power Market and Consumer Market Analysis

Knowledge Management

Machine Learning and Data Analysis

Empirical Analysis on Managerial Decision Making

Information Security

Innovation and Corporate Valuation

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