

2007 SIWN International Conference on Adaptive Business Systems (ICABS'2007)

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<http://siwn.org.uk/ICABS2007/>

Scope

Areas of particular interest include 8 thematic Technical Tracks:

- Track 1 Enterprise Systems (in perspectives of information, management, organization, automation, etc.)
- Track 2 Enterprise Collaboration
- Track 3 Supply Chains and Logistics
- Track 4 E-Business
- Track 5 Business Intelligence
- Track 6 On-Demand Businesses
- Track 7 Industrial Applications of Multi-Agent Systems
- Track 8 Information Infrastructures of Businesses
- Track 9 Self-Organization and Emergence

Full lists of indicative topics in each Technical Track are as follows.

Track 1 Enterprise Systems (in perspectives of information, management, organization, automation, etc.)

- agile manufacturing
- business process management
- concurrent engineering
- e-manufacturing
- engineering/project management
- enterprise information systems
- enterprise resource planning
- enterprise workflow management
- enterprise-wide control and management
- flexible manufacturing system
- global manufacturing and management
- industrial automation
- industrial process control
- industrial process optimization
- information systems and management
- integrated manufacturing
- lean production
- management information systems
- manufacturing automation
- manufacturing execution systems
- manufacturing resource planning
- mass customization
- material requirement planning
- next generation manufacturing systems
- product data management
- product life cycle management
- production and operation management
- production planning and control
- production/workshop scheduling
- project management
- quality management in production and distribution
- scheduling and sequencing
- technology management and innovation
- total quality management and quality engineering
- transaction and workflow management
- warehouse and inventory management

Track 2 Enterprise Collaboration

- business coalition
- business ecosystems
- business process integration
- business partnership models
- coalition formation
- collaborative e-business
- collaborative engineering
- collaborative information systems
- collaborative networks
- computer supported collaborative work
- distributed information and knowledge management
- dynamic virtual enterprises
- enterprise consortium
- enterprise federation
- enterprise integration
- global enterprise
- global information systems
- global project management
- inter-enterprise transaction and workflow management
- inter-organizational systems
- knowledge network and management
- knowledge ontology
- management of distributed activities and working
- outsourcing management
- social networks and viral marketing
- strategic information systems
- trans-national corporation
- trust modeling and building processes
- virtual enterprises
- workflow interoperation management

Track 3 Supply Chains and Logistics

- combinatorial auctions in supply chains
- cooperation of supply chains
- coordination/optimization in supply chains
- customer/supplier relationship management
- demand chain management
- e-auction technology
- e-contracting in supply chains
- e-logistics
- e-supply chain management
- e-transportation & distribution
- inventory management in supply chains
- logistics and transportation systems
- managing global supply networks

- modeling of supply chains
- multi-agent negotiations in supply chains
- supply chain design and performance evaluation
- supply chain dynamic formation
- supply chain management
- supply, demand, and value chains

Track 4 E-Business

- agent mediated auction mechanisms
- agent mediated bidding and negotiation
- agent-mediated e-commerce
- B2B, B2C, C2C models
- digital cities and regions
- digital culture
- dynamic pricing models
- e-auction mechanisms
- e-banking
- e-bidding and e-negotiation technologies
- e-business design and developments
- e-business process modeling, integration, and monitoring
- e-business security, trust and privacy
- e-collaboration
- e-commerce
- e-commerce content management
- e-contracting
- e-democracy
- e-education
- e-government
- e-health
- e-hubs and portals
- e-inclusion to information society
- e-learning and innovations in teaching
- electronic data interchange
- e-marketing and e-advertising technologies
- e-marketplaces
- e-medicine
- e-negotiation
- enterprise e-services architectures
- e-payment systems
- e-project management
- e-quality control
- e-service auditing techniques
- e-services and service markets
- e-taxation
- e-trust (privacy issues in e-business)
- e-work
- global e-business
- information authentication techniques
- information privacy

- information security
- mobile commerce
- mobile public services
- one-stop government – service integration
- personalized ubiquitous e-service
- pricing and metering of on-demand services
- public e-services for citizens and enterprises
- ubiquitous commerce and services

Track 5 Business Intelligence

- adaptive systems
- ant colony optimization
- artificial intelligence applications in production and distribution
- artificial intelligence techniques
- artificial neural systems
- autonomous/intelligent agents
- collective intelligence
- cooperative systems
- customer behavior modeling
- data and knowledge engineering in e-business
- data warehousing and data mining
- decision analysis and decision support systems
- discrete event systems
- distributed intelligence systems
- evolutionary computation
- expert systems
- fuzzy logic systems
- group decision systems
- information integration and mediation
- information retrieval
- intelligence optimization
- intelligent automation systems
- intelligent decision support systems
- intelligent design systems
- intelligent e-business systems
- intelligent information systems
- intelligent planning and scheduling systems
- intelligent supply chain management
- intelligent systems
- intelligent user interfaces
- knowledge acquisition and discovery
- knowledge based systems
- knowledge management and ontology
- machine learning
- meta-heuristics
- multi-linguistic user interfaces
- natural language systems
- particle swarm optimization

- pattern recognition, clustering, classification
- real-time business performance monitoring
- semantic analysis and semantic web
- social intelligence
- soft computing
- swarm intelligence
- web data visualization
- web personalization
- web search techniques
- web site monitoring

Track 6 On-Demand Businesses

- adaptive business
- adaptive enterprises
- agile business
- agile enterprise
- autonomous systems
- business adaptation/evolution
- business process re-engineering
- collaborative systems for adaptive and self-managed enterprise applications
- context-aware middleware services
- emergent business
- emergent enterprise
- enterprise re-engineering
- failures handling
- flexible enterprise
- management of complex systems
- on-demand e-business
- reactive web
- re-configurable businesses
- re-configurable enterprises
- re-configurable manufacturing system
- responsive business
- responsive enterprise
- self-configuration of enterprise systems
- self-management
- self-organized production system
- self-organizing business
- self-organizing enterprises
- self-organizing systems
- self-protection of enterprise systems
- software architectures for adaptive and self-managed enterprise applications

Track 7 Industrial Applications of Multi-Agent Systems

- agent-based system integration
- fractal enterprise
- holonic collaborative systems

- holonic enterprises
- holonic manufacturing systems
- holonic virtual enterprises
- holonic/agent concepts
- industrial applications of holonic and multi-agent systems
- multi-agent based modeling and simulation tools
- multi-agent enterprises
- multi-agent frameworks of continuous process industries (e.g., chemical, petrochemical, refinery, etc.)
- multi-agent interaction
- multi-agent manufacturing system
- multi-agent negotiation
- multi-agent production scheduling
- specification of holonic and agent-based architectures and design methodologies

Track 8 Information Infrastructures of Businesses

- collaborative computing
- distributed enterprise computing
- distributed intelligence
- distributed object systems
- e-business applications and integration
- electronic data interchange
- enterprise application integration and interoperability
- enterprise computing
- enterprise Grid computing middleware
- Grid computing
- internet techniques
- mobile/pervasive computing
- multi-agent systems
- network security
- next generation internet
- ontology management
- open distributed systems
- peer-to-peer systems
- semantic web
- service management architectures
- service oriented architectures
- service oriented computing
- ubiquitous/context-aware services
- web services
- web-based applications
- web-centric security and trust
- wireless networks
- XML

Track 9 Self-Organization and Emergence

- adaptation in social insects
- analysis of coupled feedback loops for self-managing systems
- analytic models of emergent behaviors
- architectures of emergent systems
- architectures of self-organizing systems
- artificial immune systems
- artificial life
- autonomy based interactions
- behaviors of emergence
- behaviors of self-organization
- bio-inspired machine learning
- biologically inspired computing
- biologically inspired interaction mechanisms
- cellular automata approaches to emergence in multi-agent systems
- cellular automata model of multi-agent systems
- characterization frameworks of self-organizing software
- cognitive modeling
- complex adaptive systems
- complex non-linear systems
- computational pheromones, potential field, economy
- contextual and/or environmental awareness in emergent systems
- controllability of emergence
- convergence analysis of multi-agent systems
- cybernetic principles and self-organization
- dynamic policy development
- emergence and interactions
- emergence in layered systems
- emergence in socio-economic/technical systems
- emergent behaviors in multi-agent systems
- emergent properties of large complex systems
- entropy approaches to self-organization and adaptation
- evolutionary computation
- evolving emergent systems
- feedback control of chaos in complex systems
- feedback control of uncertainties in large complex systems
- game theoretic approaches to emergence in multi-agent systems
- game theory, decision theory for self-organization and adaptation

- holonic systems for self-organization and adaptation
- interaction mechanisms for self-organization and adaptation
- interactions as feedback to influence and control multi-agent systems
- managing interactions to achieve self-* outcomes
- market based control of multi-agent systems
- methodologies for engineering self-organization
- models of social insects
- multi-agent systems
- open complex systems
- role of cognitions (self-awareness)
- self-learning systems
- self-organization in socio-economic/technical systems
- self-organizing systems
- self-organization and adaptation principles and methodologies borrowed from systems theory, control theory, game theory, decision theory, etc.
- self-organization in biological systems
- self-organization to support multi-agent scalability
- self-stabilization of multi-agent systems
- stability of emergent systems
- stigmergy
- swarming and swarm intelligence
- testing and verification of emergent systems