

IDC'2015

9th International Symposium on Intelligent Distributed Computing

University of Minho, Guimarães, Portugal

7th-9th October 2015

<http://algoritmi.uminho.pt/IDC2015>

2nd CALL FOR PAPERS

The emergent field of Intelligent Distributed Computing focuses on the development of a new generation of intelligent distributed systems. It faces the challenges of adapting and combining research in the fields of Intelligent Computing and Distributed Computing. Intelligent Computing develops methods and technology ranging from classical artificial intelligence, computational intelligence and multi-agent systems to game theory.

The field of Distributed Computing develops methods and technology to build systems that are composed of interacting and collaborating components. The symposium welcomes submissions of original papers on all aspects of intelligent distributed computing ranging from concepts and theoretical developments to advanced technologies and innovative applications.

Paper acceptance and publication will be judged on the basis of their relevance to the symposium themes, clarity of presentation, originality and accuracy of results and proposed solutions. Symposium topics include, but are not limited to:

Intelligent Distributed and High-Performance Architectures

- Hybrid distributed systems involving software agents and human actors
- Intelligent grid and cloud infrastructures
- Agent-based wireless sensor networks
- Distributed frameworks and middleware for the Internet of Things
- GPU, multicore, and many-core intelligent computing
- Intelligent high-performance architectures
- Virtualization infrastructures for intelligent computing
- Bio-inspired and nature-inspired distributed computing
- Context-aware intelligent computing

Organization and Management

- Autonomic and adaptive distributed computing
- Intelligent service composition and orchestration
- Self-organizing and adaptive distributed systems
- Emerging behaviors in complex distributed systems
- Intelligent integration of heterogeneous data and processes
- Methodologies for development of intelligent distributed systems and applications

Intelligent Distributed Knowledge Representation and Processing

- Information extraction and retrieval in distributed environments
- Knowledge integration and fusion from distributed sources

- Data mining and knowledge discovery in distributed environments
- Semantic and knowledge grids
- Ontologies and meta-data for describing heterogeneous resources and services
- Distributed fusion of sensor data streams

Networked Intelligence

- E-service and web intelligence
- Intelligence in mobile, ubiquitous and wearable computing
- Intelligence in peer-to-peer systems
- Intelligence in distributed and networked multimedia systems
- Security, privacy, trust and reputation

Intelligent Distributed Applications

- Distributed problem solving and decision making
- Intelligent applications in e-business/e-commerce, e-learning, e-health, e-science, e-government, crisis management, smart grid
- Modeling, simulation and development of intelligent distributed systems
- Simulation of groups and crowds
- Intelligent data processing
- Intelligent robots
- Intelligent environments

Paper Submission and Publication

All accepted papers will be included in the Symposium Proceedings, which will be published by Springer as part of their series Studies in Computational Intelligence. Papers must have at most 10 pages length and must be formatted according to Springer format for Proceedings and Other Multiauthor Volumes (Latex only) available at: <http://www.springer.com/series/7092>

Submissions and reviews are automatically handled by EasyChair. Please submit your paper at:

<http://algoritmi.uminho.pt/IDC2015>

Special Issue

Extended versions of the best papers accepted and presented at this symposium may be considered for publication in a special issue published in Soft Computing Journal (JCR Impact Factor 2013: 1.304).

<http://www.springer.com/engineering/computational+intelligence+and+complexity/journal/500>

Invited Speakers

Amílcar Cardoso - University of Coimbra, Portugal.

"Computational Creativity: distributed approaches"

Vincenzo Loia - University of Salerno, Italy.

"On Humans and Sensor Awareness for Decision Support Systems: approaches, architectures and application domains"

Important dates

Full paper submission: March 30, 2015

Notification of acceptance: April 24, 2015
Final (camera ready) paper due: May 22, 2015
Symposium: October 7-9, 2015

Collocated events

Workshops:

Seventh International Workshop on Multi-Agent Systems Technology and Semantics (**MASTS 2015**)
<http://aimas.cs.pub.ro/masts2015/>

2nd Workshop on Cyber Security and Resilience of Large-Scale Systems (**WSRL 2015**)
<http://parsec.unina2.it/a4c/index.php/wsrl-2015>

International Workshop on Future Internet and Smart Networks (**FI&SN'2015**)
<http://marco.uminho.pt/conferences/fi-sn-2015/>

Special Sessions:

Energetic Sustainable Ambient Intelligent (**ESAmI 2015**)
<http://islab.di.uminho.pt/ESAmI2015/>

Cognitive Models and Emotions detection for Ambient Intelligence (**COMEDAI 2015**)
<http://islab.di.uminho.pt/COMEDAI2015/>

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