



ICCCI 2015

Lecture Notes in
Artificial Intelligence
Lecture Notes in Computer Science

7th International Conference on
**Computational Collective Intelligence
Technologies and Applications**

September 21-23, 2015, Madrid, Spain

Organized by:



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ANST 2015

Special Session on Advanced Networking and Security Technologies at the 7th International Conference on Computational Collective Intelligence Technologies and Applications

September 21-23, 2015, Madrid, Spain

Conference website: <http://antares.sip.ucm.es/iccci2015/>

Special Session Organizers

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Objectives and topics

The ANST 2015 Special Session offers an opportunity to gather research scientific works related to Advanced Networking and Security Technologies in context of intelligent networks and architectures, smart sensors networks, ubiquitous networking and mobile computing, high-availability paradigm, parallel and distributed intelligence, quality of services, as well as educational, industrial and other application of advanced networking technologies.

Utilization of information and communication technologies has become an everyday part of our lives. According to the technological development we can see the rise of networking technologies, services and solutions that can connect users and systems all over the world. Mobile and other smart devices have changed the way we look at computing. Modern applications and systems are built upon this ubiquitous networking paradigm that allows applications to follow wherever users go. Implementation of solutions based on the idea of ubiquitous networking produces new challenges in such areas as management, security, technical solutions, infrastructure modeling, mobile devices support, etc.

The ubiquitous networks should be designed to better support existing and emerging applications. From a technological perspective, ubiquitous networking covers a broad palette of hardware and/or software technologies. Here we can include namely context-awareness, software defined applications and appliances, user adaptive interfaces, integration of smart devices and applications, dynamic network topology automation and adaptation, reliable high-speed communication, cloud computing integration, and many others.

Security of ubiquitous networking is a key challenge and frequently also the limiting factor for implementation or provisioning of advanced services. The deployment of new services should consider the aspects of compatibility, various type of networks and systems integration, such as home devices, industrial systems and/or mobile and smart devices. Furthermore the interconnection with the Internet and integration with the cloud computing technologies brings the security risks and vulnerabilities for a large number of specific organizations, e.g., army, governmental organizations, or for organizations working with sensitive data in general. This targeted session will address number of topics related to the above described aspects of advanced networking and its applications.

The goal of this special session is to bring together researchers from different fields of expertise, lead to a better understanding between them, and to promote interaction in this new and interdisciplinary area. All in all, we want to create an opportunity for the participants to exchange about a wide range of topics related to the area of advanced networking and security technologies.

Topics of interest include:

- Cloud computing and network virtualization,
- Distributed computing and databases in networking environment,
- Economical assets of network applications and services,
- Educational and e-learning aspects of networking and security,
- Intelligent networks and applications,
- Internet of Things and smart applications,
- Intrusion detection and prevention systems,
- Managerial and business aspects of ubiquitous networking,
- Measurement of applications and infrastructure services,
- Methodical approach to architecture development,
- Mobile and sensor networks,
- Multi-agent approach in networking and security,
- Network automation and development,
- Network reliability, availability and scalability,
- Security aspects of ubiquitous networking,
- Software appliances in networking and security,
- Software defined networks and devices,
- Specialized application of ubiquitous services,
- System life-cycle management in networking environments,
- Usage studies and workload characterization,
- User interaction and cognitive aspects of ubiquitous networking,
- Wireless Communication and Network.

Any other topics strongly related to Advanced Networking and Security Technologies are also welcome. Please contact directly session chairs to confirm a suitability of your paper topic.

Important dates

Submission of papers: **April 12, 2015**

Notification of acceptance: **May 15, 2015**

Camera-ready papers: **June 15, 2015**

Registration & payment:

Conference date: **September 21-23, 2015**

Program Committee (final)

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Dr. Oldřich Horak, University of Pardubice, Czech Republic

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **ANST 2015: Special Session on Advanced Networking and Security Technologies**.

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the ANST 2015 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in

the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).