

ICxS 2016

Special Session on Intelligent and Context Systems

at the 8th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2016)

Da Nang, Vietnam, March 14-16, 2016

Conference website: <http://www.aciids.pwr.edu.pl/>

Special Session Organizers

Dr. Maciej Huk

Department of Computer Science
Wrocław University of Technology, Poland
E-mail: Maciej.Huk@pwr.edu.pl

Dr. Jan Kwiatkowski

Department of Computer Science
Wrocław University of Technology, Poland
E-mail: Jan.Kwiatkowski@pwr.edu.pl

Dr. Anita Pinheiro Sant'Anna

Center for Applied Intelligent Systems Research
Halmstad University, Sweden
E-mail: Anita.SantAnna@hh.se

Objectives and topics

Context based methods have gained great attention of scientific community over the last several years. Multiple context-based models have been theoretically and empirically shown to provide significantly better capabilities and performance than their context-free versions. Context aware algorithms have found their application in various real word problems ranging from person identity and activity recognition, through medical diagnosis and telerehabilitation to text classification and financial forecasting. The ICxS 2016 Special Session at the 8th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2016) is devoted to the context based methods addressing classification, ontology processing, context awareness, selective attention and scheduling problems as well as their use in benchmark and real life applications - especially adaptable, parallel, distributed and mobile systems. We want to offer an opportunity for researchers and practitioners to discuss the role of context in different fields, identify and exchange new promising research directions as well as to publish recent advances in this area. The scope of the ICxS 2016 includes, but is not limited to the following topics:

- Theoretical models and frameworks for context methods,
- Ontology based context modeling,
- Intelligent environments and sensor networks,
- Context aware services and computing (personalized, web based, mobile, wearable, other),
- Context-based machine learning methods,
- Implementations of context-aware algorithms,
- Hybrid and distributed contextual systems,
- Data mining with contextual methods,
- Prediction and control of the context during communication (e.g. web chatter bots),
- Adaptive and parallel systems and algorithms (e.g. codecs),
- Predictive scalability and performance modeling and evaluation of contextual parallel systems and applications,
- Context sensitive image and scene processing,
- Selective attention and tasks scheduling,
- Storing and reusing contextual knowledge,
- Context aware reasoning and languages (rule-based, markup-based, other),
- Analyzing, tracking and understanding context of text and multimedia sources,
- Using context in real-time, robotic, pervasive, and security systems,
- Application of context-aware methods and systems in medicine, engineering, business, science, etc.,
- Case studies showing the role of context awareness in various applications.

Important dates

Submission of papers: **15 October 2015**
Notification of acceptance: **15 November 2015**
Camera-ready papers: **1 December 2015**
Registration & payment: **1 December 2015**
Conference date: **14-16 March 2016**

Program Committee

Qiangfu Zhao, University of Aizu, Japan
Goutam Chakraborty, Iwate Prefectural University, Japan
Anita Sant'Anna, Halmstad University, Sweden
Michael Spratling, University of London, UK
Anna Fabijańska, Lodz University of Technology, Poland
Józef Korbicz, University of Zielona Góra, Poland
Jerzy Świątek, Wrocław University of Technology, Poland
Maciej Piasecki, Wrocław University of Technology, Poland
Michał Kędziora, Wrocław University of Technology, Poland
Nguyen Thanh Binh, Ho Chi Minh City University of Technology, Viet Nam
Quan Thanh Tho, Ho Chi Minh City University of Technology, Viet Nam
Ha Manh Tran, Ho Chi Minh City International University, Viet Nam
Nguyen Khang Pham, Can Tho University, Viet Nam
Nguyen Thai-Nghe, Can Tho University, Viet Nam
Pedro Medeiros, University Nova of Lisbon, Portugal
Jan Kwiatkowski, Wrocław University of Technology, Poland
Maciej Huk, Wrocław University of Technology, Poland
Emilio Luque, University Autònoma of Barcelona, Spain
Dolores Rexachs, University Autònoma of Barcelona, Spain
Philip Moore, Lanzhou University, China
Norbert Jankowski, Nicholas Copernicus University, Poland
Bartlett W. Mel, University of Southern California, USA
Gregory Hager, Johns Hopkins University, USA
Shimon Ullman, Weizmann Institute of Science, Israel
Santosh S. Venkatesh, University of Pennsylvania, USA
Garrison W. Cottrell, University of California, USA
Xiao-Ping Zhang, Ryerson University, Canada
Grażyna Suchacka, Opole University, Poland
Ryszard Tadeusiewicz, AGH, Poland
William Dally, Stanford University, UK
Marek Wróblewski, University of Stuttgart, Germany
Wen Gao, Peking University, China
Elan Barenholtz, Florida Atlantic University, USA

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: **ICxS 2016: Special Session on Intelligent and Context Systems**.

<https://www.easychair.org/conferences/?conf=aciids2016>

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 ICxS 2016 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.). The ICxS 2016 Program Committee will additionally confer the "ICxS'2016 Best Paper Award" for the outstanding contribution to research in contextual processing.