

ICxS 2025

Special Session on Intelligent and Contextual Systems

at the 17th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2025)

Kitakyushu, Japan, April 23-25, 2025

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

ICxS Special Session website: <http://www.icxs.pwr.edu.pl>

Special Session Organizers

Prof. Łukasz Łaczmański

Hirsfeld Institute of Immunology and Experimental Therapy
Polish Academy of Sciences, Poland
E-mail: lukasz.laczmański@hirsfeld.pl

Prof. Keun Ho Ryu

Faculty of Information Technology
Ton Duc Thang University, Vietnam
E-mail: khryu@tdtu.edu.vn

Prof. Rashmi Dutta Baruah

Department of Computer Science and Engineering
Indian Institute of Technology Guwahati, India
E-mail: r.duttabaruah@iitg.ac.in

Dr. Maciej Huk

Department of Information Systems
Wrocław University of Science and Technology, Poland
E-mail: maciej.huk@pwr.edu.pl

Prof. Goutam Chakraborty

Department of Software and Information Science
Iwate Prefectural University, Japan
E-mail: goutam@iwate-pu.ac.jp

Prof. Tetsuji Kuboyama

Computer Centre
Gakushuin University, Japan
E-mail: tkuboyama@tk.cc.gakushuin.ac.jp

Prof. Chao-Chun Chen

Department of Computer Science and Information Engineering
National Cheng Kung University, Taiwan
E-mail: chenc@imis.ncku.edu.tw

Objectives and topics

Context based methods have gained great attention of scientific community over the last several years. Multiple context based and awareness related 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 solutions of various real world problems ranging from robots control, person identity and activity recognition, through medical diagnosis to text classification and financial forecasting. The ICxS 2025 Special Session at the 17th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2025) is devoted to the context based methods addressing classification, context awareness, genome analysis, selective attention and computational awareness problems as well as their use in benchmark and real life applications - especially adaptable, 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 2025 includes, but is not limited to the following topics:

- Context-based machine learning methods,
- Implementations of context-aware algorithms, hybrid and distributed contextual systems,
- Neural networks for aware and contextual systems,
- Intelligent environments and sensor networks,
- Contextual data analysis in bioinformatics, genome sequencing and toxicology,
- Context sensitive text, sound, image and scene processing,
- Contextual Embedding models and Generative AI systems,
- Contextual programming and modeling of living processing systems,
- Ontology based models and frameworks for contextual methods,
- Computational awareness theory,
- Using context and awareness in robots, transportation, assistive and medical systems,
- Contextual neural aggregation functions,
- Selective attention, perception and tasks scheduling,
- Recognition and control of the context during communication (e.g. web chatter bots),
- Context aware reasoning and languages (rule-based, markup-based, other),
- Analyzing, tracking and understanding context of text and multimedia sources,
- Context aware services in data medicine, engineering, society, business, science, etc.

Important dates

Submission of papers: **31 October 2024**
Notification of acceptance: **3 February 2025**
Camera-ready papers: **17 February 2025**
Registration & payment: **17 February 2025**
Conference date: **23-25 April 2025**

Program Committee (to be invited)

Adriana Albu, Polytechnic University of Timisoara, Romania
Basabi Chakraborty, Iwate Prefectural University, Japan
Chao-Chun Chen, National Cheng Kung University, Taiwan
Dariusz Frejlichowski, West Pomeranian University of Technology Szczecin, Poland
Erdenebileg Batbaatar, Chungbuk National University, South Korea
Goutam Chakraborty, Iwate Prefectural University, Japan
Hideyuki Takahashi, Tohoku Gakuin University, Japan
Jerzy Świątek, Wrocław University of Science and Technology, Poland
Józef Korbicz, University of Zielona Góra, Poland
Keun Ho Ryu, Chungbuk National University, Korea
Kilho Shin, Gakushuin University, Japan
Lkhagvadorj Munkhdalai, Chungbuk National University, Korea
Ly Tu Nga, Ho Chi Minh City International University, Vietnam
Łukasz Łaczmański, Polish Academy of Sciences, Poland
Maciej Huk, Wrocław University of Science and Technology, Poland
Maciej Powierża, Polish Academy of Sciences, Poland
Marcin Fojcik, Western Norway University of Applied Sciences, Norway
Masafumi Matsuhara, Iwate Prefectural University, Japan
Plamen Angelov, Lancaster University, UK
Qiangfu Zhao, University of Aizu, Japan
Rafał Palak, Wrocław University of Science and Technology, Poland
Rashmi Dutta Baruah, Indian Institute of Technology Guwahati, India
Sansanee Auephanwiriyakul, Chiang Mai University, Thailand
Takako Hashimoto, Chiba University of Commerce, Japan
Tetsuji Kuboyama, Gakushuin University, Japan
Thai-Nghe Nguyen, Can Tho University, Vietnam

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 2025: Special Session on Intelligent and Contextual Systems**.

<https://easychair.org/conferences/?conf=aciids2025>

Authors are invited to submit original previously unpublished research papers written in English, of up to 12 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 2025 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 2025 Program Committee will additionally confer the "ICxS 2025 Best Paper Award" for the outstanding contribution to research in contextual processing.