

CoSenseAI 2021

Special Session on Commonsense Knowledge, Reasoning and Programming in Artificial Intelligence

at the 13th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021)

Phuket, Thailand, April 7-10, 2021

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

Special Session Organizers

Prof. Pascal Bouvry

University of Luxembourg, Luxembourg

E-mail: pascal.bouvry@uni.lu

Dr. Matthias R. Brust

University of Luxembourg, Luxembourg

E-mail: matthias.brust@uni.lu

Dr. Grégoire Danoy

University of Luxembourg, Luxembourg

E-mail: gregoire.danoy@uni.lu

Prof. El-ghazil Talbi

Polytech'Lille, University Lille, INRIA, France

E-mail: el-ghazali.talbi@univ-lille.fr

Objectives and topics

Recent advances in machine learning (ML) have seen the emergence of society-transforming AI applications. However, side-stepped areas such as common sense and self-explanatory AI are considered the next leap in the evolution of AI from narrowly focused to more human-like intelligent systems. The CoSenseAI 2021 Special Session at the 13th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021) is devoted to offering an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the CoSenseAI 2021 includes, but is not limited to the following topics:

- New forms and advances of commonsense reasoning
- New forms and advances of knowledge representation
- Interface and interconnection between commonsense AI and ML
- Explainable AI and transparent AI
- Commonsense programming
- Optimization of AI/ML algorithms
- Application of AI/ML in optimization problems
- Self-regulatory AI (e.g. with common sense)
- Concepts of mental agents
- Cognitive AI
- Crowd sourcing for automated knowledge acquisition
- Complex networks in AI for analysis, reasoning and knowledge representation
- Analysis of AI systems (neural networks, Machine Learning, etc.)
- Challenges of commonsense AI (e.g. ambiguity resolution)
- AI standardization and regulatory challenges

Important dates

Submission of papers:	1 December 2020
Notification of acceptance:	30 December 2020
Camera-ready papers:	15 January 2021
Registration & payment:	15 January 2021
Conference date:	7-10 April 2021

Program Committee (to be invited)

Roland Bouffanais, Singapore University of Technology and Design, Singapore
Ronaldo Menezes, University of Exeter, UK
Apivadee Piyatumrong, NECTEC, Thailand
M. Ilhan Akbas, Embry-Riddle Aeronautical University, USA
Christoph Benz Müller, Freie Universität Berlin, Germany
Bernabe Dorransoro, University of Cadiz, Spain
Rastko Selmic, Concordia University, Canada
Daniel Stolfi, University of Luxembourg, Luxembourg
Juan Luis Jiménez Laredo, Normandy University, France
Kittichai Lavangnananda, King Mongkut's University of Technology Thonburi, Thailand
Boonyarit Changaival, University of Luxembourg, Luxembourg
Marco Rocchetto, ALES, United Technologies Research Center, Italy
Jundong Chen, Dickinson State University, USA
Emmanuel Kieffer, University of Luxembourg, Luxembourg
Fang-Jing Wu, Technical University Dortmund, Germany
Umer Wasim, University of Luxembourg, Luxembourg

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: **CoSenseAI 2021: Special Session on Commonsense Knowledge, Reasoning and Programming in Artificial Intelligence.**

<https://easychair.org/conferences/?conf=aciids2021>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 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 CoSenseAI 2021 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.).