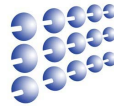


2022 IEEE ICCP
2022 IEEE 18th International Conference on
Intelligent Computer Communication and Processing

September 22-24, 2022, Cluj-Napoca, Romania
<http://www.iccp.ro>



Aims and Scope

The goal of the 2022 IEEE 18th International Conference on Intelligent Computer Communication and Processing Software is to bring together researchers, engineers and practitioners working towards improving the power of both communication and processing software using the most advanced intelligent methods available today. The conference will have a hybrid format, with in-person and online attendance options.

The growing toolkit of AI - computer vision, natural conversation, and machines that learn over time—has the potential to enhance almost the entire economic and social life. The driving forces of this development are the increased volumes of data, the continuously growing of communication, processing, storage capabilities and the new machine learning techniques especially deep learning and reinforcement learning algorithms.

The fast development of artificial intelligence and its applications implies more advanced but also more secure artifacts, which require the intelligent computer communication and processing technologies to improve at a high pace.

Topics

Technical tracks include, but are not limited to:

Machine Learning: Theoretical contributions to Supervised Learning, Semi-supervised Learning, Self-supervised Learning, Unsupervised Learning, Reinforcement Learning, Deep Learning, Transformers.

Computer Vision: Conventional Image Processing and Computer Vision Techniques, Machine Learning and Deep Learning Based Image Processing and Computer Vision Techniques: Image enhancement; Feature extraction; Segmentation; Semantic, Instance and Panoptic Segmentation, Optical Flow; Stereovision and 3D Reconstruction; Monocular Depth Estimation, Motion; 2D and 3D Object Detection, Tracking and Recognition; Multi-sensor and temporal fusion; Environment Representation; Driving Assistance Applications; Autonomous Driving; Robotic Applications; Biomedical Image Analysis

Intelligent Systems: Agent-based and Multi-agent Systems; Knowledge Representation, Reasoning and Engineering; Ontology Modeling and Mediation; Machine Learning; Natural Language Processing; Multidisciplinary Topics and Applications, Web and Knowledge-based Information Systems; Systems and Organization.

Intelligent Distributed Computing and Networking: Cloud Computing, Context Aware; Autonomic Computing; Resource Coordination and Management; Quality of Service; Queuing Network Models; Pervasive Computing; Grid Computing; Fault Tolerance; Cooperative Applications.

Keynote Speakers

Rada Mihalcea professor of computer science and engineering at the University of Michigan.

Radu Grosu full professor and the Head of the Cyber-Physical Systems Division, Faculty of Informatics, TU Wien.

Special Sessions

HiPerGrid: organized in cooperation with Politehnica University, Bucharest, RO

Cloud Computing: organized by the Computer Science Department of Technical University of Cluj-Napoca, RO

Deep Learning Based Perception for Autonomous Systems organized by Technical University Cluj-Napoca, RO

Workshops

Semantic and Geometric Visual Perception: organized by Technical University Cluj-Napoca in the framework of the PN-III-P4-ID-PCCF-2016-0180 Integrated Semantic Visual Perception and Control for Autonomous Systems – SEPCA project.

Bosch Workshop: organized by Robert Bosch Romania.

Workshop on Big Data and Machine Learning in CloudUT: organized in the framework of the CLOUDUT Project, cofunded by the European Fund of Regional Development through the Competitiveness Operational Programme 2014-2020, contract no. 235/2020.

Industrial Track

The industrial track is an excellent modality for companies working in the conference domains to advertise and promote their innovative products and services, connect with other companies and engage in discussions about research and development initiatives.

Important Dates

Submission of papers: ~~May 29~~ ~~June 20~~ July 10, 2022

Industrial track proposals: May 29, 2022

Notification of acceptance: ~~July 15~~ August 16, 2022

Accepted Camera-ready papers: ~~July 31~~ September 5, 2022

Author registration due: ~~July 31~~ September 5, 2022

Publication

Papers should not exceed 8 pages and should comply with IEEE formatting (8.5"x11", two-column). Accepted papers will be included in the 2021 IEEE ICCP Proceedings and will be available in IEEE Xplore digital library. They will also be submitted for indexing in Web of Science and Scopus.

Steering Committee

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Deep Learning Based Perception for Autonomous Systems Session Chairs

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Florin Oniga, Technical University of Cluj-Napoca, RO

HiPerGrid Session Chairs

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Valentin Cristea, Politehnica University, Bucharest, RO

Florin Pop, Politehnica University, Bucharest, RO