

We cordially invite you to submit your original contributions to IWCIM 2023 - the 11th International Workshop on Computational Intelligence for Multimedia Understanding (IWCIM), which will take place as a satellite workshop to IEEE ICASSP 2023, to be held in Rhodes Island, Greece on June 4 - 9, 2023.

Please see the workshop website <https://iwcim.itu.edu.tr/> and the general conference web page <https://2023.ieeeicassp.org/> for more information.

Notice that ICASSP, the flagship conference of the IEEE Signal Processing Society (SPS), in the first post-pandemic edition, will be held in person at the Rodos Palace Luxury Convention Resort.

IWCIM 2023 is the annual workshop organized by the working group Multimedia Understanding through Semantics, Computation and Learning (MUSCLE) of the European Research Consortium for Informatics and Mathematics (ERCIM).

Multimedia understanding is an important part of many intelligent applications in our social life, be it in our households, or in commercial, industrial, service, and scientific environments. Analyzing raw data to provide them with semantics is essential to exploit their full potential and help us manage our everyday tasks. Nowadays, raw data normally come from a host of different sensors and other sources and are different in nature, format, reliability and information content. Multimodal and cross-modal analysis are the only ways to use them at their best. Besides data analysis, this problem is also relevant to data description intended to help storage and mining. Interoperability and exchangeability of heterogeneous and distributed data is a need for any practical application. Semantics is information at the highest level, and inferring it from raw data (that is, from information at the lowest level) entails exploiting both data and prior information to extract structure and meaning. Computation, machine learning, statistical and Bayesian methods are tools to achieve this goal at various levels.

TOPICS:

The scope of IWCIM 2023 includes, but is not limited to the following topics:

- o Multisensor systems
- o Multimodal analysis
- o Crossmodal data analysis and clustering
- o Mixed-reality applications
- o Activity and object detection/recognition

- o Text and speech recognition
- o Multimedia labeling, semantic annotation, and metadata
- o Multimodal indexing and searching in very large data-bases
- o Big and Linked Data Search and mining Big Data
- o Large-scale recommendation systems
- o Multimedia and Multi-structured data
- o Semantic web and Linked Data
- o Cloud Optimization
- o Pervasive intelligence
- o Machine learning in multimedia understanding
- o Attention based approaches for multimedia understanding
- o Diffusion models for multi-modal data analysis
- o Multi-modal data analysis in compressed domain
- o Multi-modal data analysis for remote sensing applications
- o Case studies

PUBLICATION:

All the papers accepted for the workshop will be included in the conference proceedings published in IEEExplore.

SUBMISSION:

All contributions should be original and not published elsewhere or intended to be published during the review period. The link to the submission system will be managed by ICASSP and will be announced shortly.

DATES:

Submission of papers: February 24, 2023

Notification of acceptance: April 14, 2023

Camera-ready papers: April 28, 2023

Workshop date: TBA (June 4, 5, or 10, 2023)

- Workshop Organizers -

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