

Workshop on Machine Learning in Multimedia Signal Processing (MLMSP)

September 27-29, 2019 MNIT Jaipur, India,
<http://cvip2019.mnit.ac.in/>

EXTENDED Submission Deadline: June 15 2019
Firm deadline no further extensions.

Machine learning techniques and deep learning algorithms have claimed very good performances on a wide range of tasks in even on Big Multimedia data. The expansion of online multimedia and other social media appearing on mobile, wearable and other devices has become extremely accelerated in recent years. The Machine Learning in Multimedia Signal Processing (MLMSP) workshop is based on emerging interdisciplinary multimedia research and systems using Machine-learning techniques on conventional and big multimedia data. The primary goal of the MLMSP workshop in CVIP 2019 is to present state-of-the-art research results on emerging machine learning techniques in multimedia signal processing as well as their applications and services for retrieval, classification, semantics, detection and recognition of multimedia information including various signals, images, video and 3D/VR/AR/MR. The workshop also welcomes new topics that can help to establish semantical and contextual relations among users based on the information of their interest. We hope this goal will encourage academic and industrial interaction and to promote collaborative research activities on the field Machine Learning in Multimedia Signal Processing.

The topics of interest of the workshop include, but are not limited to:

Deep and Machine Learning Models and Techniques

Novel machine and deep learning
Active learning
Incremental learning and online learning
Agent-based learning
Manifold learning
Multi-task learning / parallel and distributed learning
Bayesian networks and applications
Case-based reasoning methods
Statistical models and learning
Computational learning
Evolutionary algorithms and learning
Evolutionary neural networks
Fuzzy logic-based learning
Genetic optimization
Clustering, classification and regression
Neural network models and learning
Reinforcement learning
Supervised, semi-supervised and unsupervised learning

Multimedia Analysis and Processing

Novel multimedia signal processing and analysis
Content-based analysis for big multimedia data
Feature extraction for big multimedia data representation
Human activity recognition, action detection, motion tracking, and video surveillance
Multimedia search and retrieval
Semantics and emotion analysis
Computation linguistics analysis
Multimedia data modeling and visualization
Filtering, Time-Sensitive and Real-time Search
Personalized Search
Images and video data mining

Multimedia knowledge discovery in large datasets
Indexing, classification, clustering, and association
Segmentation, grouping and shape representation
Multimedia knowledge acquisition and learning
Multimedia knowledge representation and reasoning
Mining spatial and temporal multimedia datasets
Machine Learning Multimedia Applications
Retrieval and annotation of big multimedia data
Object and/or context based multimedia information retrieval
Multimedia networking, communication, and IoT
Emotion and semantics in content-based retrieval systems
Multi-modal multimedia systems, document processing
Multimedia image/video scene understanding
Semantic-based multimedia retrieval and annotation
Mobile Multimedia Systems and Applications
Cloud-assisted multimedia systems
Human computer interaction based on multimedia
Entertainment, gaming and e-learning
3D / AR / VR / MR, Animation
Intelligent traffic and transportation
Multimedia security, rights management and forensics
Multimedia systems for digital library and SNS
Multimedia for smart homes
Multimedia for wearable technologies and applications
Bioinformatics, biomedical informatics, and face recognition
Medical, healthcare, medicine and clinical decision support
Computer vision
Natural language processing
Recommendation systems

Submission and publication

CVIP 2019 invites submission of high quality and original papers on the topics listed above. All submitted papers will be peer-reviewed by at least three reviewers for technical merit, originality, significance and relevance to track topics. Papers must be up to 12 pages and follow Springer Lecture Notes publication format. Accepted papers will be included in the conference proceedings and submitted for inclusion to IAPR and major indexes. Content will be submitted to the indexing companies for possible indexing.

Important dates [Indian Standard Time]

* Submission Deadline 11:59 p.m., **June 15, 2019**
* Supplementary Material Deadline 11:59 p.m., **June 20, 2019**
* Final Decision To Author 11:59 p.m., July 25, 2019
* Camera Ready Paper 11:59 p.m., August 05, 2019

Workshop Co-Chairs

Andrea KUTICS, International Christian University, Japan
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