9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021) June 25 - 26, 2021

National Institute of Technology Mizoram, India

CALL FOR PAPERS

Special Session on Optimization Methods in Multimedia Systems: Algorithms, Approaches and Applications

Session Chair (s): Dr. Ashutosh Kumar Dubey (SMIEEE, SMACM), Department of Computer Science, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India

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Theme of Session:

Indisputably communication is becoming multidimensional, adaptive, ambient, and reliable. With the onset of 5G connectivity, not only men but also machines get integrated to visualize and realize next-generation context-aware and people-centric services. And the more, the number of dimensions involved in a communication setup, the richer it is, and the more decisive and deeper impacts, it brings in. With ultra-low latency and high network capacity, besides obsessed with multimedia and multimodal systems, we are all set to experience virtual, augmented and mixed reality (VR/AR/MR) applications. We increasingly leverage sound, colour, action, gesture, tone, texture, and a wider variety of emotions in understanding what others express, and how our everyday environment is communicating to us, and how we interact with others in the vicinity. Even when confined to media that places severe limits to the number of dimensions available, we tend to innovate, by adding virtual dimensions. Dealing with data from different modalities, is the common case in today's systems. With the continuous development in network technologies, input/output (I/O) systems, and greater computational power, creating and sharing multimedia data is becoming easier for all people around the world. For an example, in Facebook, there are objective views, comments, well-intended opinions, cryptic posts, static images, voice messages, and video clips, etc. Storing, searching in, analyzing, and utilizing multimedia data is highly challenging. Massive amount of multi-structured data is being generated, stocked and subjected to a variety of investigations. To be able to deal with this poly-structured data from diversified sources in order to extract useful information and insights in time, we need knowledge discovery and dissemination technologies. That is why this Conference Session gives the opportunity for researchers and practitioners to present their efforts in addressing the challenges of dealing with multimodal and multimedia data. This Conference Session will provide the research students, scholars and scientists with opportunities to discuss and explore areas related to the multimedia engineering, science, analytics, and management.

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Topics of Interest:
We invite original (un-published) research contributions based on the above-mentioned theme including following topics **but not limited to**:

Intelligent Image / Video Analytics
Digital Image and Video Processing
Image Rendering and Quality
Imaging Sensors and Acquisition Systems
Content Based Image/Video Retrieval
Vision for Graphics
Human Behaviour Understanding
Deep Artificial Intelligence
Motion and Tracking Algorithms and Applications
Watermarking Methods and Protection
Image Data Structures and Databases
Color Reproduction
Image Compression, Coding, and Encryption
Statistical and Structural Pattern Recognition
Performance Analysis and Evaluation
Novel Image Processing Applications
Machine Learning Technologies for Vision
Multimedia in Bioinformatics
Virtual Reality and Simulations
Augmented Reality Image Processing
Computational and Architectural Aspects of Human Vision
Innovative Multimedia Systems or Devices
Internet / Mobile Multimedia Sharing
Intelligent e-Health based on Multimedia Analysis
Games and Gamification
Vision and Languages
Edge Computing
Edge AI Systems

Paper Submission Process:
Please submit your paper (in word/pdf format) at
email: dr.abhishekkpandey@ieee.org
With 'Optimization Methods in Multimedia Systems: Algorithms, Approaches and Applications' mentioned in the subject line.

Last Date for Submission: March 01, 2021.
Notification of Acceptance: May 01, 2021.

For more details, please visit: https://www.ficta.org/

Program Committee:

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