



विश्वजीवनामृतं ज्ञानम्

#### Patron

- Prof. SN Singh, Director, ABV-IIITM, India
- Prof. BB Chaudhuri, ISI, Kolkata, India

#### Gen Chairs

- Prof. KV Arya, ABV-IIITM, India
- Prof. Tomohisa Wada, University of the Ryukyus, Japan

#### Gen. Co- Chairs

- Prof. Shashikala Tapaswi, ABV-IIITM, India
- Prof. Peter Peer, University of Ljubljana, Slovenia
- Prof. Abdenour Hadid, University Polytechnique Hauts-de-France, France
- Prof. Wei-Ta Chu, National Cheng Kung University, Taiwan

#### Oversight Committee

- Dr. Vivek Tiwari, IIIT Naya Raipur, India
- Dr. Robin Singh, MIR Lab Gwalior, India

#### Conference Chairs

- Prof. PK Singh, ABV-IIITM, India
- Prof. KC Santosh, University of South Dakota, USA
- Prof. Vrijendra Singh, IIIT Allahabad, India
- Dr. Satish Kumar Singh, IIIT Allahabad, India

#### Technical Program Chairs

- Dr. Wilfred Godfrey, ABV-IIITM, India
- Dr. Shiv Ram Dubey, IIIT Allahabad, India
- Dr. Kang Dongshik, University of the Ryukyus, Japan

#### Tutorial Chairs

- Dr. Debanjan, ABV-IIITM Gwalior, India
- Dr. Anjali Gautam, IIIT Allahabad, India
- Dr. Navjot, IIIT Allahabad, India

#### Publication Chairs

- Dr. Debanjan, ABV-IIITM, India
- Prof. Aditya Trivedi, ABV-IIITM, India
- Dr. KK Pattanaik, ABV-IIITM, India
- Dr. Matadeen Bansal, IIITDM, India

#### Finance Chairs

- Dr. Avadh Kishor, ABV-IIITM, India
- Dr. Gaurav Agarwal, ABV-IIITM, India

#### Web Chairs

- Dr. Narinder Singh Pun, ABV-IIITM, India
- Prof. Mahua Bhattacharya, ABV-IIITM, India
- Dr. Pinku Ranjan, ABV-IIITM, India
- Dr. Nalinn Sharma, ABV-IIITM, India

#### Publicity Chairs

- Dr. Narinder Singh Pun, ABV-IIITM, India
- Dr. Jeevaraj, ABV-IIITM, India
- Dr. Vinal Patel, ABV-IIITM, India
- Dr. Binod Prasad, ABV-IIITM, India
- Dr. Sunil Kumar, ABV-IIITM, India

#### Organizing Chairs

- Dr. Amrendra Singh Yadav, ABV-IIITM, India
- Prof. Gyan Prakash, ABV-IIITM, India
- Dr. Somesh Kumar, ABV-IIITM, India
- Prof. Manisha Pattanaik, ABV-IIITM, India
- Prof. Rajendra Sahu, ABV-IIITM, India

#### Conference Secretary

- Dr. Santosh Singh Rathore, ABV-IIITM, India

#### Registration Chairs

- Dr. Amrendra Singh Yadav, ABV-IIITM, India
- Dr. Anuraj Singh, ABV-IIITM, India
- Dr. MK Dash, ABV-IIITM, India

#### Special Session Chairs

- Dr. Santosh Singh Rathore, ABV-IIITM, India
- Dr. Amrendra Singh Yadav, ABV-IIITM, India

#### Important Dates (All times in IST)

Full paper submissions: July 15, 2023, 23:59 IST

Research paper notifications: September 15, 2023, 23:59 IST

Camera-ready submission: November 20, 2023, 23:59 IST

#### Contact

For any queries kindly reach general chairs or email at [cvmi2023@iiitm.ac.in](mailto:cvmi2023@iiitm.ac.in)

## CALL FOR PAPERS



# International Conference on Computer Vision and Machine Intelligence CVMI – 2023

10-11 December, 2023

Jointly organized by ABV-IIITM Gwalior and University of the Ryukyus

#### About

The present world is witnessing rapid advancements in the field of Information Technology, specifically, in the areas of Computer Vision and Machine Intelligence, cherished by the society and industry. The amount of Research and Development activities across the globe has been drastically scaled up from the past one decade in these research areas. Hence, the international conference on Computer Vision and Machine Intelligence (CVMI) 2023 is organized at Atal Bihari Vajpayee Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior, Madhya Pradesh, India from 10 to 11 December 2023. This conference is meant for researchers from academia, industries and research & development organizations all over the globe interested in the areas of computer vision, artificial intelligence, optimization, machine learning algorithms, and related applications. It will put special emphasis on the participations of PhD students, Postdoctoral fellows and other young researchers from all over the world. It would be beneficial to bring together a group of experts from diverse fields to discuss recent progress and to share ideas on open questions. The conference will feature world-class keynote speakers in the main areas.

#### Conference Topics:

CVMI-2023 welcomes high-quality, original, and previously unpublished submissions in computer vision and machine intelligence. Topics of interests for the CVMI-2023 conference include, but not limited to, the following:

#### Track 1: Image and Video Processing

- Image/video processing for Autonomous Vehicles
- 3D image/video processing
- Image Enhancement/Super Resolution / Restoration
- Image/ Video Retrieval
- Remote sensing, Multispectral/Hyperspectral image Processing
- Segmentation and Shape Representation
- Image/Video Scene Understanding
- Transfer Learning
- Multi-task Learning

#### Track 2: Biometrics and Security

- Biometrics, Forensics, Content protection
- Face, Iris, Emotion, Sign Language and Gesture Recognition
- Action and Event Detection/Recognition
- Motion and Tracking
- Vision-based Human GAIT Analysis
- Image/Video Security

#### Track 3: Artificial Intelligence Foundations

- Machine Learning
- Deep Learning

- Computational Intelligence
- Optimization Techniques
- Explainable AI

#### Track 4: Artificial Intelligence Applications and Ethics

- Fairness, Accountability, Privacy, Transparency, and Ethics
- Robotic Intelligence
- Limited Data Intelligence
- Multimedia Intelligent Systems
- Document and Synthetic Visual Processing
- Medical Image and Video Analysis
- Document Image Analysis

#### Track 5: Human-AI Interaction and Intelligent Systems

- Brain-Computer Interaction
- Hand-sensor based Intelligence
- Light-weight Intelligent Systems
- Hardware Realization of Intelligent Systems
- Robustness of Intelligent Systems
- Fooling Intelligent Systems
- Supervised Intelligence
- Unsupervised Intelligence
- Self-supervised Intelligence

#### Submission Guidelines

Prospective authors are invited to submit full-length original research papers. In submitting a manuscript to CVMI-2023, authors acknowledge that no paper substantially similar in content has been or will be submitted to another journal, conference or workshop during the review period. In such a case the paper will be rejected without review. Papers must be electronically submitted before the deadline expires without exception. The paper must not exceed 6 pages in length (including all text, figures, and references). The manuscript must be submitted in pdf format only and the file size of your manuscript should not exceed 10 MB. CVMI-2023 follows single blind review process. Authors must use the manuscript template as follows: [Overleaf](#), [LaTeX](#) or [Word](#). The manuscript has to be uploaded online at the ICCVMI-2023 Microsoft Research paper submission portal using the following link: <https://cmt3.research.microsoft.com/ICCVMI2023>.

#### Publication

The proceedings of the conference will be published by IEEE. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Any paper selected for presentation but not physically present at the conference will not be published by IEEE.