

1. **Special Session Title:** Evolutionary Computation Paradigms and Machine Intelligence to Computer Vision and Image Processing
2. **Mail id, ph num of session chair(s):**

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### 3. Objectives of the Proposed Session:

Over the last few years, there is an exponential upthrust in the number of platforms, applications, and tools based on machine intelligence and evolutionary computation paradigms. Scientists and developers have designed intelligent machines that can simulate reasoning and analytical ability, moving closer to mimicking how human being work. Evolutionary Computation Paradigms and Machine Intelligence to Computer Vision and Image Processing brings the ability for automatic identification of patterns, feature selection and classification. It can have significant advantages over traditional tools and methods.

The aim of the special session is to provide a hybrid and open platform to the researchers and practitioners from both academia as well as industry to share cutting-edge development in the field of machine intelligence and evolutionary computation techniques to computer vision and image processing problems. It mainly focuses on the hybridisation of machine intelligence method along with evolutionary computation techniques in the filed of computer vision and image processing.

### 4. Pictures of Session Chairs



Dr. Umesh Chandra Pati



Dr. Ashutosh Kumar Dubey

### 5. Recommended Topics:

Topics to be discussed in this special session include (but are not limited to) the following:

- Image Acquisition and Storage
- Medical Imaging
- Image Processing
- Image Mosaicing
- Image Fusion

- Remote Sensing
- 3-D Modeling
- Object Recognition and Tracking
- Monitoring and Surveillance
- Texture and Motion Analysis
- Stereo Vision
- Games and Animation
- Character and Handwritten Text Recognition
- Face and Gesture Recognition
- Biometrics
- Multimodal Image Analysis
- Virtual Reality and Environment
- Pattern Recognition
- Video Anomaly Detection
- Human Activity Detection
- Video Analytics
- Video Stabilization
- Camera Calibration
- Advanced Driving Assistance Systems