



**DoSCI-2022**  
**International Conference/Doctoral Symposium on Computational Intelligence**

*Organized by Institute of Engineering & Technology, a constituent college of Dr APJ Abdul Kalam Technical University Lucknow, India in association with University of Calabria, Italy*  
**05 March 2022.**

\*\*\*\*\* **CALL FOR PAPERS** \*\*\*\*\*

**SPECIAL SESSION ON**

**Advances in Image Processing, Computer Vision and Deep Learning**

**SESSION ORGANIZERS:**

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### **SESSION DESCRIPTION:**

This session mainly focuses to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Image Processing Technologies, Computer Vision and Deep Learning. The field of computer vision is shifting from statistical methods to deep learning neural network methods. There are still many challenging problems to solve in computer vision. Nevertheless, deep learning methods are achieving state-of-the-art results on some specific problems. It is not just the performance of deep learning models on benchmark problems that is most interesting; it is the fact that a single model can learn meaning from images and performs vision tasks, obviating the need for a pipeline of specialized and hand-crafted methods. It is interdisciplinary platform for researcher scholars to present and discuss the most recent innovations, trends, practical challenges encountered and solutions adopted in the fields of Image Processing Technologies, Computer Vision and Deep Learning.

### **Objectives**

- To explore the possible technological solutions for the societal problems in the different thrust areas.
- The participants including Faculty Members, Research Scholars and Industry persons will be able to present their research work and will get suggestions for further enhancement in the topic.
- The Participants will be able to explore the current research happenings in the domains of Image Processing, Computer Vision and Deep Learning by listening to the peer researchers and session chairs.

### **RECOMMENDED TOPICS:**

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

- Image Classification
- Image Segmentation
- Object Detection
- Object Segmentation
- Image Captioning
- Image Style Transfer
- Image Colorization
- Image Reconstruction
- Image Super-Resolution
- Image Synthesis
- Biomedical Imaging
- Computer Vision
- Natural Language Processing

- Generative adversarial Networks
- Unsupervised Deep Learning Architectures
- Speech Processing
- Question Answering
- Transfer Learning
- Q Learning
- Machine Translation
- Time Series/Sequence Models
- Neural Networks
- Convolutional Networks
- AutoEncoders
- Deep Belief Networks
- Recurrent Neural Networks
- Long Short Term Memory
- Deep and restricted Boltzmann Machines
- Deep Reinforcement Learning
- Hybrid Models of Deep Learning

#### **SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on **“Advances in Image Processing, Computer Vision and Deep Learning” on or before 30 November 2021**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE’S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at [http://dosci-conf.com/paper\\_submission.html](http://dosci-conf.com/paper_submission.html). All submitted papers will be reviewed on a double-blind, peer review basis.

**NOTE:** While submitting paper in this special session, please specify **Advances in Image Processing, Computer Vision and Deep Learning** at the top (above paper title) of the first page of your paper.

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