**DoSCI-2021**

**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**

**On 06 March 2021.**

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

**SPECIAL SESSION ON**

**Emerging Trends in Multimedia, IOT and signal processing based Computationally intelligent systems**

**SESSION ORGANIZERS:**

### **Dr. Jyotsna Yadav**, Asst. Professor and In-charge Signal processing Lab, University School of Information Technology, Guru Gobind Singh Indraprastha University, New-Delhi; email: jyotsnayadav@ipu.ac.in

### **Dr. Rajesh Mehta**, Assistant Professor, Thapar Institution of Engineering and Technology, Email: [rajesh.mehta@thapar.edu](mailto:rajesh.mehta@thapar.edu)

### **Mr. Pramod kumar soni-** Assistant Professor, Institute of Innovation in Technology and Management. Email:pramod.soni0007@gmail.com

**SESSION DESCRIPTION:**

Multimedia communications, IOT (Internet of things) and signal processing is playing a vital role in expanding the number of computationally intelligent systems. In order to make existing applications less expensive and more practical, researchers are now turning to emerge and augment new intelligent systems for smart applications. Successful examples include recent developments in systems for complex representation of visual information, enhancements in environmental monitoring, multimedia interactions planning and understanding of symbolic knowledge, recent trends in systematic thinking for smart city development, improved human system development using multimedia, signal sensing and processing using evolutionary approaches, fuzzy methodologies, deep learning techniques etc. Thus, this special session focuses to bring together work from leading academicians, scientists, researchers, research scholars, graduate and post graduate students from across the globe on emerging trends on computationally intelligent systems for novel applications related to multimedia, IOT and signal processing. Authors are encouraged to submit original and unpublished results of conceptual, constructive, empirical, experimental or theoretical work with no plagiarism in the areas multimedia, IOT and signal processing for enhancements in computational intelligent systems.

**RECOMMENDED TOPICS:**

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

**Emerging trends in Multimedia based computationally intelligent systems**

* Image based pattern recognition systems
* Medical image based diagnosis systems
* Enhanced multimedia compression methods
* Visual information systems
* Human-computer Interaction systems
* Content based image retrieval systems
* Advancements in Satellite imagery systems
* Improved multimedia based web mining systems

**Emerging trends in IOT based computationally intelligent systems**

* High dimensional big-data sensing systems
* Smart IOT based agricultural systems
* Smart IOT based traffic management systems
* Smart city management systems based on IOT
* Advancements in home security systems

**Emerging trends in Signal processing based computationally intelligent systems**

* Deep learning based Signal processing systems
* Bio-medical signal processing systems
* Speech processing systems
* Advancements in optical communication systems
* Advancements in video processing systems

**SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on “**Emerging Trends in Multimedia, IOT and signal processing based Computationally intelligent systems“ *on or before*****December 31, 2020**. 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>. All submitted papers will be reviewed on a double-blind, peer review basis.

**NOTE:** While submitting paper in this special session, please specify [**insert special session title- Emerging Trends in Multimedia, IOT and signal processing based Computationally intelligent systems**] at the top (above paper title) of the first page of your paper.

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