**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**

**Decoding Real-world applications using Computational Intelligence**

**SESSION ORGANIZERS:**

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**SESSION DESCRIPTION:**

**Artificial intelligence (AI), leveraging machine learning and deep learning is increasing as a key business enabler for today's software systems including autonomous vehicles, cloud-based services, big data, blockchain and IoT among many other industry applications. AI-based systems are heavily reliant on software, with each system growing massively towards having thousands of software components with intricate interdependencies. AI community has focused primarily on algorithmic performance and functional aspects of AI-based systems. A challenge in these systems is to ensure that they can continue to deliver high quality of service despite unforeseen changes and uncertainty of operational environments.**

**IoT is a rapidly expanding research area spanning the fields of computer science and has become a ubiquitous term in understanding and solving complex problems in different disciplinary fields such as engineering, applied mathematics, medicine, computational biology, healthcare, social networks, finance, business, government, education, transportation and telecommunications. Big data is used to build IoT architectures which include things-centric, data-centric, service-centric architecture, cloud-based IoT. Machine learning extracts meaning from big data using various techniques which include regression analysis, clustering, bayesian methods, decision trees, random forests, support vector machines, reinforcement learning, ensemble learning and deep learning. Our goal is to collect current research efforts, views and experiences among researchers and software practitioners contributing to advances in multidisciplinary research. It comprises of present state-of-the-art knowledge and the latest advances in intelligent systems. Also, it includes theoretical studies, design schemes and real-world implementations and applications. We look forward to a mutually rewarding and long lasting association with you and your esteemed organization.**

**RECOMMENDED TOPICS:**

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

* **Impact of different algorithms and ML approaches and challenges**
* **New development models, tools and methods that has evolved in interdisciplinary domains**
* **Emerging technologies, frameworks, platforms and tools in Blockchain, Cloud and IoT**
* **Software Engineering and Testing**
* **IoT Enabling Technologies and its Applications**
* **Architectures for robotics, autonomous vehicles and automation systems**
* **E-Learning, E-Commerce, E-Society, E-Business and E-Government**
* **Image Processing and Multimedia Applications**
* **Analysis techniques for uncovering architecture issues in AI-based systems**
* **Use of AI to improve architecture, design, conformance and quality**

**SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on **Decoding Real-world applications using Computational Intelligence** *on or before* **31-December-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 **Decoding Real-world applications using Computational Intelligence** at the top (above paper title) of the first page of your paper.

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