



ICICC-2023
**6th International Conference on Innovative Computing and
Communication**

Organized by Shaheed Sukhdev College of Business Studies, New Delhi, India
On 17-18th FEBRUARY 2023.

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

**SPECIAL SESSION ON MACHINE LEARNING AND DEEP LEARNING APPLIED TO
COMPLEX PROBLEMS IN COMPUTER SCIENCE**

SESSION ORGANIZERS:

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EDITORIAL BOARD: (Optional)

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12. Dr. Jafar A. Alzubi, School of Engineering, AL-Balqa Applied University, Salt, Jordan

SESSION DESCRIPTION:

Over the last decades there has been an increasing interest in using machine learning and in the last few years, deep learning methods, combined with other vision techniques to create autonomous systems that solve vision problems in different fields. This special session is designed to serve researchers and developers to publish original, innovative and state-of-the art algorithms and architectures for real time applications in the areas of computer vision, image processing, biometrics, virtual and augmented reality, neural networks, intelligent interfaces and biomimetic object-vision recognition. This special session provides a platform for academics,

developers, and industry-related researchers belonging to the vast communities of *Neural Networks*, *Computational Intelligence*, *Machine Learning*, *Deep Learning*, *Biometrics*, *Vision systems*, and *Robotics *, to discuss, share experience and explore traditional and new areas of the computer vision, machine and deep learning combined to solve a range of problems. The objective of the workshop is to integrate the growing international community of researchers working on the application of Machine Learning and Deep Learning Methods in Vision and Robotics to a fruitful discussion on the evolution and the benefits of this technology to the society.

RECOMMENDED TOPICS:

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

- Healthcare and medical diagnosis
- Social network modeling
- Financial risk assessment
- Marketing and E-commerce
- Multimedia data mining
- Visual surveillance
- Application Systems for Big Visual Data Understanding
- Education data mining
- Location big data mining
- Intelligent transportation system
- Web mining
- Text mining
- Sentiment analysis for social media
- Network security
- Smart cities
- Smart government
- Smart and cyber-physical devices
- Self-adaptation, self-organization and self-supervised learning
- Robust computer vision algorithms (operation under variable conditions, object tracking, behavior analysis and learning, scene segmentation,)
- Convolutional Neural Networks CNN
- Recurrent Neural Networks RNN
- Deep Reinforcement Learning DRL
- Hardware implementation and algorithms acceleration (GPUs, FPGA,s,..)
- Computational Intelligence methods
- Machine Learning methods

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on MACHINE LEARNING AND DEEP LEARNING APPLIED TO COMPLEX PROBLEMS IN COMPUTER SCIENCE

on or before [30th November 2022]. 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://icicc->

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 MACHINE LEARNING AND DEEP LEARNING APPLIED TO COMPLEX PROBLEMS IN COMPUTER SCIENCE at the top (above paper title) of the first page of your paper.

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