INTERNATIONAL WORKSHOP ON
Role of AI-enabled Machine Learning and Deep Learning techniques in the Emerging technologies

WORKSHOP ORGANIZERS:
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WORKSHOP DESCRIPTION:

The intention of Artificial intelligence (AI) has taken a step forward with the emergence of computing techniques and the outset of intelligent mechanics. AI is the imitated intelligence of programming machines and probes to emulate human intelligence. The machine learning and deep learning techniques are a subdomain of AI that matters about establishing software agents that enhance acquaintance. In AI, an operation like human brain intelligence can be performed by a computer-controlled machine. The intelligent restoration of AI incorporates data, logical reasoning, and auto-correction. The ML & DL technique plays a leading role in Robotics. In large industries, AI-enabled Robots can work with accurate decision making and low computation time. Likewise, in Agriculture, the ML & DL-controlled technologies enable crop monitoring, peerless harvesting, pest control, planting management, weather reporting, water management, food safety, etc. AI can overcome various significant challenges today in the healthcare industry, including treatment outcomes, maintaining electronic medical records, and medical imaging. AI plays a major role in medical emergencies of the COVID-19 pandemic by the operation of tracking, controlling, and identifying the low and high range of risks and spread of diseases. Similarly, AI is involved in several applications of mobile networks, like Network Function Virtualization (NFV), Telecom Computing Architecture (TCA), Software Defined Network (SDN), and MANagement & Orchestration (MANO). In digital currencies, blockchain provides more security; AI practices can assist the control operations between each block code. Machine Learning is one of the fascinating techniques in AI. Consequently, with AI, machine learning and deep learning enables a different classification of prediction models, a variety of classes, and evaluation of new testing cases. Especially in social media and email, ML & DL are employed in facial recognition, filtering spam, and providing spam reports to the user with the help of learning algorithms. The control policy structured through AI can assist translation and mapping between sensors and actuators. The advent of AI with ML executes a significant role in Cyber threats that
include the banking sector, Intrusion Detection Systems (IDS), malware functions, etc. AI-aided cyber defense aims to detect the attacks that target Cyber-Physical Systems (CPS) and provide cyber protection using machine learning. Intelligent Manufacturing plays a prominent role in the intelligent manufacturing industry 4.0. In educational programs, AI tutoring demonstrates highly skilled tutoring by practicing with students and expert models. So, it is absolute that in the emerging trends, AI is inevitable and provides solutions to changing requirements by consumers and the end-users of the technologies. The main objective of this workshop is to comprehend ML and DL techniques in various discussed sectors, distinct roles, and applications of AI.

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

- AI supported Industry 4.0 automation.
- Role of AI-enabled ML & DL in Medication and Healthcare sector.
- ML tools in smart manufacturing.
- ML & DL techniques in Cyber threat detection and mitigation systems
- ML & DL algorithms for the Blockchain networks.
- AI-assisted Edge and Fog computing.
- Security and privacy of AI-assisted SDN.
- AI based Smart Agriculture.
- AI-enabled ML & DL assisted Intelligent tutoring.
- ML & DL techniques in smart cities.

**SUBMISSION PROCEDURE:**
All the 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 [https://easychair.org/cfp/WS2ICCCN2021](https://easychair.org/cfp/WS2ICCCN2021). All submitted papers will be reviewed on a double-blind, peer review basis.

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