ICCCN-2022
2nd International Conference on Computing and Communication Networks

Will be held at Manchester Metropolitan University, Manchester, United Kingdom
18th-19th November, 2022.

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

INTERNATIONAL WORKSHOP ON
2nd Workshop on the Role of Machine Learning and Federated Learning in the Emerging technologies and trends
WORKSHOP ORGANIZERS:
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EDITORIAL BOARD: (Optional)
[Name, University or Organization, Country, e-mail]

WORKSHOP DESCRIPTION:
With the development of computer technologies and the introduction of intelligent mechanics, the concept of artificial intelligence (AI) has evolved. AI is the intelligence mimicked by computers and probes designed to mimic human intelligence. The Machine Learning (ML) and the Federated Learning (FL) are the sub-domains of AI which are responsible for mimicking the intelligent inference artificially which is a biological thing in human by nature. Utilizing ML/FL algorithms and methods, social media platforms produce enticing and superior services. For example, Facebook monitors and logs your activity, conversations, likes, and comments, as well as the amount of time you spend viewing certain types of postings. The ML/FL algorithm learns from your personal experience and suggests friends and pages for your profile. Product recommendation is a well-known ML/FL application. Product recommendations are a prominent aspect of almost all e-commerce websites nowadays, which is a sophisticated use of ML/FL algorithms. Using ML/FL, websites monitor your behaviour based on your past purchases, browsing habits, and shopping cart history, and then offer products. Picture recognition, which is a method for categorizing and identifying a feature or item in a digital image, is one of the most important and renowned ML/FL approaches. This method is being used for further analyses, including pattern recognition, face detection, and face recognition. The most important use of ML/FL is sentiment analysis. It is a real-time application of machine learning that identifies the speaker's or author's sentiment or opinion. For example, if there is a digital review or mail (or any other kind of document), a sentiment analyser will immediately determine the text's genuine sentiment and tone. This programme for sentiment analysis may be used to examine review-based websites, decision-making software, etc. Banks are now utilizing the most powerful ML/FL technologies to combat fraud and secure customer accounts from hackers. The algorithms identify which criteria to examine while developing a filter to prevent damage. Multiple unauthenticated websites will be instantly screened out and prevented from beginning transactions. The main

objective of this special section is to comprehend ML/FL techniques in various sectors, distinct roles, and applications.

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

- **ML/FL supported Industry 4.0.**
- **Role of ML/FL in Medication and Healthcare sector.**
- **ML/FL tools in smart manufacturing.**
- **ML/FL enabled Cyber threat detection and mitigation systems in CPS**
- **Involvement of ML/FL in the Blockchain networks.**
- **Security and privacy of ML/FL assisted SDN.**
- **ML/FL assisted Sentiment Analysis.**
- **ML/FL implication image processing.**

SUBMISSION PROCEDURE:
INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://easychair.org/conferences/?conf=icccn20210 .All submitted papers will be reviewed on a double-blind, peer review basis.

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