The 21st IEEE International Conference on Machine Learning and Applications (IEEE ICMLA 2022)

Special Session on: **Machine Learning Applications in Education**
December 12-15, 2022, The Bahamas, Caribbean
https://www.icmla-conference.org/icmla22/

Background and Aims

The field of education is currently undergoing extensive evolution, involving internet - and distance - based learning environments. New types of learning environments, such as virtual classrooms, distance laboratories and new learning methodologies present new problems that will need to be addressed. Traditional learning environments are in many cases being replaced with these new technologies. Machine Learning (ML) can be used to provide new solutions to problems presented by these new learning and teaching technologies. Machine learning involves a variety of techniques that are applicable to solving problems in education. Some examples of ML applications include: prediction of the learning success in vocational and technical education, determination of effective learning methods, using social media for educational purposes, and so on.

Scope/Topics

The aim of this special session is to obtain the recent perspective into the current state of the art on machine learning applications in addressing problems arising in education. Topics relevant to this session include but are not limited to:

- Applications of Machine Learning in Mobile Learning Environments
- Machine Learning in Agent Based Educational Applications
- Applications of Machine Learning in Distance Learning Environments
- Artificial Neural Networks Applications in Education
- Applications of Machine Learning in Social Networks
- Applications of Machine Learning in Authoring Technologies
- Applications of Machine Learning in Educational Software Testing
- Applications of Machine Learning in Intelligent Learning Environments
- Applications of Machine Learning in Human Computer Interaction
- Applications of Machine Learning in Virtual Learning Environments
- Applications of Machine Learning in Safe Internet in Education
- Applications of Machine Learning in Information Security

- Applications of Machine Learning in New Learning Theories
- Applications of Machine Learning in Social Media and Social Learning
- Applications of Machine Learning in Instructional Design

Submitted papers cannot be previously published or be under consideration for publication elsewhere. Authors must adhere to all submission procedures of the 21th IEEE ICMLA 2022, including paper formats and deadlines.

Submission Guidelines and Instructions

Papers submitted for review should conform to IEEE specifications. Manuscript templates can be downloaded from IEEE website[1]. The maximum length of papers is 8 pages. All the papers will go through the double-blind peer-review process. Authors' names and affiliations should not appear in the submitted paper. The authors' prior work should be cited in the third person. Authors should also avoid revealing their identities and/or institutions in the text, figures, links, etc.

Paper Publication

Accepted papers will be published in the IEEE ICMLA 2022 conference proceedings (published by IEEE). A selected number of accepted papers will be invited for possible inclusion, in an expanded and revised form, in some journal special issues.

Important Dates:

- Submission Deadline: September 9, 2022

- Notification of Acceptance: October 7, 2022

- Camera-ready papers & Pre-Registration: October 14, 2022

Special Session Organizers/Chairs:

Special Session Organizer:
Prof. Dr. Halil Ibrahim BULBUL, Gazi University, Turkey.
bhalil@gazi.edu.tr, ibrahmhalil@gmail.com

Program Committee:
Prof. Dr. Ilhami COLAK, Nisantasi University, Turkey, ilhcol@gmail.com
Prof. Dr. Seref SAGIROGLU, Gazi University, Turkey, ss@gazi.edu.tr
Prof. Dr. Ramazan BAYINDIR, Gazi University. Turkey, ramazanbayindir@gmail.com
Prof. Dr. Yasar Guneri SAHIN, Izmir Economy University, Turkey, yasar.sahin@ieu.edu.tr
Assoc. Prof. Dr. Abdurrahman ASLANYILMAZ, Youngstown State University, USA.
aarslanyilmaz@ysu.edu, USA
Assoc.Prof. Dr. Abdulkadir KARACI, Samsun University, Turkey, abdulkadir.karaci@samsun.edu.tr