The aim of the conference is to bring researchers working in the areas of machine learning and applications together. The conference will cover both theoretical and experimental research results. Submission of machine learning papers describing machine learning applications in fields like medicine, biology, industry, manufacturing, security, education, virtual environments, game playing and problem solving is strongly encouraged.

Key Dates:

PROPOSALS DUE
- Special Sessions/Workshops: May 10, 2021
- Tutorials: July 6, 2021

PAPER SUBMISSION DEADLINE (All paper submission deadlines are "Anywhere On Earth.")
- Main Conference: July 3, 2021
- Special Sessions/Workshops/Challenges: August 6, 2021
- Notification of Acceptance: September 4, 2021
- Camera-ready Papers: October 1, 2021
- Pre-registration: October 1, 2021

Scope of the Conference:

We encourage submissions of high quality research papers on all topics in the general area of machine learning and its applications. Topics of interest include, but are not limited to, the following areas:

- General Machine Learning (e.g., statistical learning, reinforcement learning, supervised learning, unsupervised learning, clustering, hybrid learning, federated learning, online and incremental learning, ranking, feature selection, few-shot learning, evolutionary learning, etc.)
- Deep Learning (neural network models, deep reinforcement learning, etc.)
- Learning Theory (game theory, statistical learning theory, computational learning theory, plausible reasoning theory and models, etc.)
- Machine Learning performance and optimization (network architectures search, pruning, quantization, learning low capacity devices, scalability of learning algorithms, system, performance, offloading, distributed and parallel learning, etc.)
- Probabilistic Inference (Bayesian methods, graphical models, Monte Carlo methods, etc.)
- Trustworthy Machine Learning (security, privacy, adversarial learning, etc.)
- Applications (gaming, problem solving, virtual environments, industry, manufacturing, homeland security, medicine, bioinformatics and system biology, healthcare, neuroscience, economics, business, social good, web, mobile data, time series data,
multimedia data, natural language processing, data mining, information retrieval, knowledge discovery, etc.)

Contributions describing applications of machine learning (ML) techniques to real-world problems, interdisciplinary research involving machine learning, experimental and/or theoretical studies yielding new insights into the design of ML systems, and papers describing development of new analytical frameworks that advance practical machine learning methods are especially encouraged.

**Paper Submission Formats:**
Papers submitted for reviewing should conform to IEEE specifications with maximum length of 8 pages. Manuscript templates can be downloaded from IEEE website (http://www.ieee.org/conferences_events/conferences/publishing/templates.html). All submissions must be anonymized and may not contain any information with the intention or consequence of violating the double-blind reviewing policy, including (but not limited to) citing previous works of the authors or sharing links in a way that can infer any author’s identity or institution, actions that reveal the identities of the authors to potential reviewers.

**Submission:**
Please follow the link (https://cmt3.research.microsoft.com/ICMLA2021/) for initial submission and updates.

**Journal Publication:**
A short list of presented papers will be selected so that revised and extended versions of these papers will be published in 1) special issue on Application of Machine Learning Techniques for Sensing and Imaging of Sensors of MDPI Sensors; 2) Journal of Machine Learning Theory, Applications and Practice by River Publishers

**Organizing Committee:**

Conference Co-Chairs:
  Ishwar K Sethi, Oakland University
  Weisong Shi, Wayne State University

Program Committee Co-Chairs:
  Daniela Raicu, DePaul University
  Guangzhi Qu, Oakland University

Special Sessions Chair:
  Ruoming Jin, Kent State University

Tutorials Chair:
  Mahdi Khosravy, Osaka University, Japan

Publicity Chair:
  Tegjyot Singh Sethi