



**17th IEEE International Symposium on Embedded
Multicore/Many-core Systems-on-Chip (MCSoc-2024)**
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Special Session on

Advances in Intelligent Systems and Learning Technologies

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Call for papers

Advancements in artificial intelligence, particularly in large language models (LLMs) like GPT-4 and conversational agents such as ChatGPT, have revolutionized human-machine interactions and opened new horizons in learning technologies. Deep learning continues to push the boundaries of intelligent systems, especially in education, where AI-driven tools like intelligent tutoring systems and adaptive learning platforms enhance learners' efficiency and effectiveness. This special session invites researchers and practitioners to discuss innovations and trends in intelligent systems and learning technologies. We welcome research contributions focusing on the development and application of machine learning methods, including advancements in LLMs and conversational AI.

Topics of Interest include (but not limited to):

- **Development and Applications of Intelligent Systems**
 - Innovative intelligent systems across various domains
- **Large Language Models and Conversational AI**
 - Applications of LLMs like GPT-4
- **Advancements in Deep Learning**
 - Deep learning applications in any domain
- **Intelligent Tutoring Systems**
 - Adaptive and personalized learning environments
- **Text Mining and Recommender Systems**
 - Personalized recommendations
- **Mobile and Ubiquitous Learning**
 - Mobile learning applications and platforms
- **Smart Educational Software and Hardware Systems**
 - Virtual and augmented reality in learning and immersive learning experiences
- **Recommender Systems for Learning**
 - AI-driven curriculum design and learning path optimization through recommendations
- **Ethics and Responsible AI in Learning Technologies**
 - Ethical considerations in educational AI deployment
- **Applications of Machine Learning in Emerging Areas**
 - Gamification and AI-enhanced learning
- **Collaborative and Social Learning Platforms**
 - Social network analysis in education

Organizing Chairs and Members

1. Debopriyo Roy, University of Aizu, Japan
2. Ebina Shoji, University of Aizu, Japan
3. Muhammad Hassan, University of Bayero, Nigeria
4. Md. Atiqur Rahman, East West University, Bangladesh