Special Session on "Applied Mathematics and Intelligent Algorithms for Modern Industry "(AMIAMI) at FSDM 2024

November 5-8, 2024
Matsue, Japan

The 10th International Conference on Fuzzy Systems and Data Mining (FSDM 2024) that is to be held in Matsue, Japan during November 5-8, 2024. FSDM conference is an annually held conference that aims to provide a professional academic platform for experts, scholars, researchers to present their latest findings, opinions and views emphasized on Fuzzy Theory, Algorithm and System, Fuzzy Application, Data Mining and Interdisciplinary field of Fuzzy Logic and Data Mining. The agenda of the conference consists of keynote speeches, invited speeches, oral presentations and poster presentations. It also welcome special sessions on hot topics in related research fields.

✪ Aims of the "AMIAMI" Special Session

The session on "Applied Mathematics and Intelligent Algorithms for Modern Industry" (**AMIAMI**) aims to establish a dynamic forum for the dissemination of the latest research in applied mathematics and intelligent algorithms, specifically within the industrial context. It seeks to encourage interdisciplinary collaboration, connecting researchers, industry experts, and academics to explore and discuss both the challenges and emerging opportunities in the application of sophisticated mathematics and algorithmic solutions to real-world industrial problems. The session is dedicated to not only highlighting innovative research but also to fostering a deeper understanding of how these advanced methodologies can drive progress in various industrial sectors.

✪ Targets and Contributors

The targets and contributors include the following:

1. Researchers and academicians specializing in applied mathematics, computer science, engineering, and related fields.

2. Industry professionals and practitioners who are implementing intelligent algorithms in various industrial sectors.

3. Postgraduate students and early-career researchers who are engaged in relevant research.

4. Policy makers and educators interested in the latest developments in applied mathematics and its industrial applications.

Organizing Committee

Session Chair: Assoc. Prof. Dr. Sayan Kaennakham ,
Institute of Science, Suranaree University of Technology, Thailand
Research fields: data science, neural networks, machine learning, and AI-driven innovation

Representatives of Organizing Committee Members

Prof. Dr. Felix Raymundo Saucedo Zendejo, Research Center for Applied Mathematics, Autonomous University of Coahuila, Mexico
Research fields: computational fluid mechanics, numerical methods, mesh-free methods and simulation of industrial processes

Assoc.Prof. Dr.Konstantin Ryabinin, Heidelberg University, Germany
Research fields: visual analytics, human-computer interaction, computer graphics, multimedia, semantic data mining

Assoc.Prof. Dr.Geanette Polanco, The Arctic University of Norway, Norway
Research fields : energy, environment, mechanical engineering and engineering education

Asst.Prof. Dr.Sungsu Kim, University of Wisconsin-Green Bay, USA
Research fields: directional statistics, particularly in circular statistics

Click Here to find more Organizing Committee Members

✪ MAIN TOPICS

Topics in this special session include, but not limited to:

◈ Development and application of intelligent algorithms in industries such as manufacturing, logistics, healthcare, finance, energy, insurance, and telecommunications.

◈ Case studies showcasing successful implementation of mathematics models and algorithms in solving real-world industrial problems.

◈ Advances in computational methods, machine learning, and artificial intelligence that contribute to industrial applications.

◈ Theoretical and practical challenges in applying mathematics and algorithmic solutions in the industry.

◈ Future trends and emerging technologies in the field of applied mathematics and intelligent algorithms for industry.

◈ Ethical, legal, and societal implications of deploying algorithmic solutions in an industrial context.

IMPORTANT DATES

Sep. 1, 2024: Full Paper Submission Deadline
Oct. 10, 2024: Abstract Submission Deadline
Nov. 5, 2024 (Tuesday): Arrival & Registration
Nov. 6, 2024 (Wednesday): Welcoming &Keynote&Invited Speeches, Oral &Poster Presentations
Nov. 7, 2024 (Thursday): Invited&Oral Presentations and Awarding Banquet
Nov. 8, 2024 (Friday): One Day Tour
Jan. 15, 2025: Estimated Publication Date of Conference Proceedings

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◇ Frontiers in Artificial Intelligence and Applications (FAIA)

(Indexed by EI, Scopus, etc)

★ **Related SCI indexed Journals**

Journal of Nonlinear and Convex Analysis
IF= 1.1
EISSN: 1880-5221
JCR: Q2,Q3

axioms
IF= 2.0
EISSN: 2075-1680
JCR: Q2

CMES-Computer Modeling in Engineering & Sciences
IF=2.4
EISSN: 1526-1506
JCR: Q2, Q3

electronics
IF= 2.9
EISSN: 2079-9292
JCR: Q2

✪ CONFERENCE SECRETARIES

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