FSDM 2026

The 12th International Conference on Fuzzy Systems and Data Mining



November 20-23, 2026 Macao, China

Table of Contents

Part I Conference Program Overview 2

Part II Conference Program in Details 3

Part III Keynote & Invited Speeches 9

Keynote Speech 1: *Processing and Mining Information from Time Series Using Fuzzy Modeling Methods* 9

Keynote Speech 2: *Future Applications Based on Mobile Clouds and Software-Defined Networks* 9

Keynote Speech 3: *From Crisp to Fuzzy Volterra Integral Equations: Piecewise Discontinuous Kernels and Proportional Delay* 10

Invited Speech 1: *Equations in Ωalgebra in Classical Setting* 11

Invited Speech 2: *Functionally Justified Integration of Quantum Computing, Generative Artificial Intelligence and Extended Reality for Adaptive Immersive Learning* 11

Invited Speech 3: *Towards Digital Twins for Energy Transmission Infrastructure: Multimodal Sensing, Data Fusion, and Early-Warning Analytics* 12

Invited Speech 4: *Multimodal Fusion and Efficient Spatiotemporal Modeling for Traffic Forecasting* .13

Invited Speech 5: *Embodied AI for Sustainable Agriculture: Intelligent Sensing, IoT, and the Future of Post-Harvest Management* 14

Invited Speech 6: *AI-Aging: An Integrated Omics-to-Primary Care Digital Infrastructure for Decentralized Longevity Health Systems* 14

Invited Speech 7: *AI-Driven Anomaly Detection for Industrial Control Systems: From Structural Context to Reliable Diagnosis* 15

Part IV Oral Presentation 17

Oral Presentation Guidelines 17

Best Oral Presentation Awards 17

Part V Conference Venue 19

Regency Art Hotel 19

Access to Regency Art Hotel 19

Part VI Field Investigation 20

Part VII Acknowledgements 21

Part VIII Invitation Letter to FSDM 2027 24

Part I Conference Program Overview

Day 1: Friday, November 20, 2026 **Regency Art Hotel**

Time	Activities	Location
14:00-18:00	Registration	Lobby of Regency Art Hotel (Ground Floor)

Note for on-site registration:

* Please let us know your name or abstract / paper number for registration.
* Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Dining Tickets, Tour ticket etc.).

Day 2: Saturday, November 21, 2026 **Regency Art Hotel**

Time	Activities	Location
09:00-09:05	Opening Speech	Ballroom III (1st Floor)
09:05-09:45	Keynote Speech 1	
09:45-10:25	Keynote Speech 2	
10:25-10:35	Group Photo	Lobby Staircase (Ground Floor)
10:35-11:00	Coffee Break	Ballroom Foyer (1st Floor)
11:00-11:40	Keynote Speech 3	Ballroom III (1st Floor)
11:40-12:00	Invited Speech 1	
12:00-13:30	Lunch Break	A Pousada Café / 玲瓏閣餐廳 (Ground Floor)
14:00-16:30	Parallel Oral Session 1	Ballroom III (1st Floor)
14:00-17:10	Parallel Oral Session 2	Drawing Room (1st Floor)
17:45-18:00	Depart for Macau Tower	Gather at the Lobby of Regency Art Hotel (Ground Floor)
18:30-20:30	Welcome Banquet	Macau Tower

Day 3: Sunday, November 22, 2026 **Regency Art Hotel**

Time	Activities	Location
09:00-11:55	Parallel Oral Session 3	Ballroom III (1st Floor)
09:00-11:50	Parallel Oral Session 4	Drawing Room (1st Floor)
12:00-13:30	Lunch Break	A Pousada Café / 玲瓏閣餐廳 (Ground Floor)
14:00-17:05	Oral Session 5	Ballroom III (1st Floor)
17:05-17:15	Thai-style Performance by AMIAMI Team from Thailand	
17:15-17:40	*Open-Microphone Session: "Vibe Coding & Generative AI in Science and Industry"	
17:40-18:20	*Follow-Up Collaboration Session: What We Could Do Together After FSDM	

Day 4: Monday, November 23, 2026 **Macao City**

Time	Activities	Location
09:00-12:30	Field Investigation	Macao City

Part II Conference Program in Details

DAY 1 | November 20, 2026 (Friday)

14:00-18:00	**Registration**	**@ Lobby of Regency Art Hotel (Ground Floor)**

DAY 2 | November 21, 2026 (Saturday)

Opening, Keynote and Invited Speeches		**@ Ballroom III (1st Floor)**
Hosts:	**Prof. Andreja Tepavcevic**, Mathematical Institute SANU, Serbia **Dr. Konstantin Ryabinin**, Heidelberg University, Germany	
09:00-09:05	**Opening & Welcoming Speech** **Prof. Vilem Novak,** University of Ostrava, Czech Republic	
09:05-09:45	**Keynote Speech 1: Processing and Mining Information from Time Series Using Fuzzy Modeling Methods** **Prof. Vilem Novak,** University of Ostrava, Czech Republic	
09:45-10:25	**Keynote Speech 2: Future Applications Based on Mobile Clouds and Software-Defined Networks** **Prof. Sergei Gorlatch**, University of Muenster, Germany	
10:25-10:35	**Group Photo**	**@Lobby Staircase (Ground Floor)**
10:35-11:00	**Coffee Break**	**@Ballroom Foyer (1st Floor)**
11:00-11:40	**Keynote Speech 3: From Crisp to Fuzzy Volterra Integral Equations: Piecewise Discontinuous Kernels and Proportional Delay** **Prof. Samad Noeiaghdam**, Henan Academy of Sciences, China	
11:40-12:00	**FSDM4986 (Invited Speech 1): Equations in Ωalgebra in Classical Setting** **Prof. Andreja Tepavcevic,** Mathematical Institute SANU, Serbia	
12:00-13:30	**Lunch Break**	**@ A Pousada Café / 玲瓏閣餐廳 (Ground Floor)**

Parallel Oral Session 1: Fuzzy Set Theory, Algorithm and System		**@ Ballroom III (1st Floor)**
Session Chairs:	**Prof. Samad Noeiaghdam,** Henan Academy of Sciences, China **Prof. Andreja Tepavcevic,** Mathematical Institute SANU, Serbia	
14:00-14:15	**FSDM4928: A Hybrid Machine Learning and Interval Type-2 Fuzzy TOPSIS for River Pollution Assessment and Mitigation in Terengganu** **Assoc. Prof. Nurnadiah Zamri**, Universiti Sultan Zainal Abidin, Malaysia	
14:15-14:30	**FSDM4888: A New Approach for Assessing Corporate Governance Quality: Incorporating Left and Right Indices in Multi-Criteria Decision Making** **Assoc. Prof. Ngoc Minh Thi Luu**, Vietnam National University, Vietnam	
14:30-14:45	**FSDM4994: When Coverage Is Not Enough: Outcome-Free Observability Stress Testing for Fuzzy Student-Readiness Profiling** **Asst. Prof. Chantana Simtrakankul**, Suranaree University of Technology, Thailand	
14:45-15:00	**FSDM5037: Fuzzy Information Granulation in Metagraphs Based on Fuzzy Junction Points** **Dr. Yuriy Gapanyuk**, Bauman Moscow State Technical University, Russia	

15:00-15:20	**Coffee Break** **@Ballroom Foyer (1st Floor)**
15:20-15:35	**FSDM4998:** Tail-Risk-Aware MQ Shape Selection for Kansa Collocation under Node Perturbations: Density-Dependent Numerical Brittleness **Asst. Prof. Pornthip Pongchalee**, Rajamangala University of Technology Isan, Thailand
15:35-15:50	**FSDM4937:** The Analytic Center Falling Algorithm for Linear Programming **Dr. Hochung Lui**, Independent Researcher, Hong Kong, China
15:50-16:05	**FSDM4996:** Characterizing the Failure Regimes of Fuzzy C-Means in Multivariate Semicontinuous Data: A Controlled Study of Excess-Zero Structure **Mr. Papon Tantiwanichanon**, Suranaree University of Technology, Thailand
16:05-16:20	**FSDM4875:** A Computer-Aided Fuzzy Clustering-Based Improvement Method to Translation Evaluation and Market Segmentation **Mr. Yatong Wu**, Xi'an Petroleum University, China
16:20-16:30	**Presenting Onsite-Oral Presentation Certificates**

Parallel Oral Session 2: AI, and Intelligent Computing for Society, Education, and Interdisciplinary Applications	**@Drawing Room (1st Floor)**
Session Chairs:	**Prof. Dimiter Velev,** University of National and World Economy, Bulgaria **Dr. Martin Bobak,** Slovak Academy of Sciences, The Slovak Republic
14:00-14:20	**FSDM5019 (Invited Speech 2):** Functionally Justified Integration of Quantum Computing, Generative Artificial Intelligence and Extended Reality for Adaptive Immersive Learning **Prof. Dimiter Velev**, University of National and World Economy, Bulgaria
14:20-14:40	**FSDM4881 (Invited Speech 3):** Towards Digital Twins for Energy Transmission Infrastructure: Multimodal Sensing, Data Fusion, and Early-Warning Analytics **Dr. Martin Bobak**, Slovak Academy of Sciences, The Slovak Republic
14:40-14:55	**FSDM4975:** Debating the Truth: Multi-Agent Misinformation Detection with Social and Credibility Evidence **Assoc. Prof. Yiu-Kai Ng**, Brigham Young University, USA
14:55-15:10	**FSDM5006:** Prefix-Only Regime-Aware Conformal Regret Gating for Dispatching-Policy Selection in Online Flexible Job Shops **Assoc. Prof. Nara Samattapapong**, Suranaree University of Technology, Thailand
15:10-15:25	**FSDM4880:** Exploring Jesus' Relationship with His Disciples and Analyzing His Teachings in the Gospels Using Natural Language Processing and VADER **Dr. Electa Alice Jayarani A**, K. S. Institute of Technology, India
15:25-15:45	**Coffee Break** **@Ballroom Foyer (1st Floor)**
15:45-16:00	**FSDM5031:** A Bilingual NAO Humanoid Robot Assistant Using a Client–Server Architecture: System Design and Functional Evaluation **Mr. Steven Ka-Kin Chong**, Hong Kong Computer Society, China
16:00-16:15	**FSDM4897:** Comparative Analysis of Deep Learning Models for Agricultural Land Potential Mapping Using Multispectral Satellite Imagery **Mr. Tuan Anh Tran**, Foreign Trade University, Vietnam
16:15-16:30	**FSDM5022:** Research on the Competency Reconstruction and Pathway Optimization for Talent Cultivation in Library and Information Science from the Perspective of Education 5.0 **Prof. Yufang Peng**, Nanjing Institute of Technology, China
16:30-16:45	**FSDM5047:** Can Machine Learning Generalize to Unseen Polymers in Electrospinning? **Dr. Wiwat Nuansing**, Suranaree University of Technology, Thailand

16:45-17:00	**FSDM4956:** Exploring the Impact of Renewable Energy Consumption Absorption System on the Development of Green Economy **Prof. Lianbiao Cui**, Anhui University of Finance and Economics, China
17:00-17:10	**Presenting Onsite-Oral Presentation Certificates**

17:45-18:00	**Depart for Macau Tower by shuttle bus** **Gather at the Lobby of Regency Art Hotel (Set off on time at 18:00)**
18:30-20:20	**Welcome Banquet at Macau Tower (With Buffet Dinner Ticket)**
20:20-20:30	**Gather at the Ground Floor of Macau Tower (Set off on time at 20:30)**
20:30-21:00	**Back to Regency Art Hotel by shuttle bus**

DAY 3 | November 22, 2026 (Sunday)

Parallel Oral Session 3: Interdisciplinary Field of Fuzzy Logic and Data Mining

@ Ballroom III (1st Floor)

Session Chair:	**Dr. Konstantin Ryabinin,** Center for Astronomy of Heidelberg University, Germany
09:00-09:15	**FSDM4895:** NChart3D: Multiplatform Library for Big Data Visual Mining **Dr. Konstantin Ryabinin**, Center for Astronomy of Heidelberg University, Germany
09:15-09:30	**FSDM4896:** Vision-Based Parking Guidance Using YOLOv11-OBB, DeepSORT, and A* Routing **Dr. Dinh-Thai Kim**, International School, Vietnam National University, Vietnam
09:30-09:45	**FSDM4997:** Do Debt Sources Form Preferred Combinations? A Degree-Preserving Null Audit of Multi-Source Household Borrowing Across Thai Districts **Assoc. Prof. Worarit Kopsiripat**, Nakhon Ratchasima Rajabhat University, Thailand
09:45-10:00	**FSDM4898:** Bank Loan Approval Prediction Using an Ensemble Machine Learning Approach **Dr. Manh-Hung Ha**, International School, Vietnam National University, Vietnam
10:00-10:15	**FSDM4985:** Imbalance-Aware Binary Particle Swarm Optimization for Feature Selection in Household Poverty Severity Classification **Dr. Supailin Pichai**, Loei Rajabhat University, Thailand
10:15-10:40	**Coffee Break** **@Ballroom Foyer (1st Floor)**
10:40-10:55	**FSDM4974:** Deep Learning-Based Identification of Cultural Landscape Narrative Structure in Agriculture–Culture–Tourism Integrated Rural Homestays **Dr. Yidan Zhu**, Hunan Women's University, China
10:55-11:10	**FSDM4991:** Assessing the Generalization of Swarm-Tuned Adaptive Activation Functions in Tabular Neural Networks under Compute-Matched Nested Cross-Validation **Mr. Suraphol Pudhom**, Suranaree University of Technology, Thailand
11:10-11:25	**FSDM5014:** Customer Trust and Consumer Repurchase Intention in Cross-Border E-Commerce: A PLS-SEM Study in Guangdong, China **Mr. Bin Lin**, Xidian University, China
11:25-11:40	**FSDM5052:** Mechanisms of Mutual Adaptation in Russian Translations of Xi Jinping's Governmental Discourse: A Fuzzy Metagraphic Analysis of Metaphor Propagation **Prof. Irina Karabulatova**, Heilongjiang University in Harbin, China
11:40-11:55	**Presenting Onsite-Oral Presentation Certificates**

Parallel Oral Session 4: Special Session on Digital Transformation from Omics to Primary Care in Decentralized Health Systems (Omics2Care)	**@Drawing Room (1st Floor)**
Session Chair:	**Dr. Wiwat Nuansing**, Suranaree University of Technology, Thailand
09:00-09:15	**FSDM4963:** Heat Transfer Simulation in Biological Tissues: A Perspective on Mathematical Models, Numerical Methods and Biomedical Applications **Prof. Citlaly Castillo Rodríguez**, Autonomous University of Coahuila, Mexico
09:15-09:30	**FSDM5003:** A Data Mining-Driven Intelligent Retrieval-Augmented AI Chatbot for Workplace Mental Health Monitoring **Assoc. Prof. Nurnadiah Zamri**, Universiti Sultan Zainal Abidin, Malaysia
09:30-09:45	**FSDM5008:** Completion-Stable Ordinal Triage under Missing Clinical Panels for Prediabetes Screening **Dr. Nattapat Khumtong**, Suranaree University of Technology, Thailand
09:45-10:00	**FSDM5034:** What Can a Short Knowledge Test Certify? Fuzzy Three-Way Decisions for Follow-Up in Community Diabetes Education **Dr. Chutrapee Popitikul**, Nakhon Ratchasima Rajabhat University, Thailand
10:10-10:40	**Coffee Break** **@Ballroom Foyer (1st Floor)**
10:40-10:55	**FSDM5013:** Robust Data-Driven Stratification of Multidose Drug-Response Profiles in Hepatoblastoma Patient-Derived Organoids **Ms. Qiong Liu**, Beijing Normal-Hong Kong Baptist University, China
10:55-11:10	**FSDM4993:** Physiological-Path-Preserving Observation Refinement for Stress Testing Recurrent ICU Mortality Models under Irregular Sampling **Ms. Janejira Laomala**, Suranaree University of Technology, Thailand
11:10-11:25	**FSDM5023:** Automatic Segmentation of High-Grade Gliomas in Pediatric Patients Using an Entropy-Weighted Hybrid Pooling SegResNet Model **Mr. Arturo Iván Hernández Salas**, Autonomous University of Coahuila, Mexico
11:25-11:40	**FSDM5036:** A Controlled Evaluation of Entropy-Pooling Gates for Parameter-Efficient Adaptation under Breast Ultrasound Domain Shift **Mr. Ratapong Onjun**, Suranaree University of Technology, Thailand
11:40-11:50	**Presenting Onsite-Oral Presentation Certificates**
12:00-13:30	**Lunch Break** **@ A Pousada Café / 玲瓏閣餐廳 (Ground Floor)**

Oral Session 5: Special Session on Applied Mathematics and Intelligent Algorithms for Modern Industry (AMIAMI), 3rd Edition	**@ Ballroom III (1st Floor)**
Session Chairs:	**Assoc. Prof. Sayan Kaennakham**, Suranaree University of Technology, Thailand **Prof. Felix Raymundo Saucedo Zendejo**, Research Center for Applied Mathematics, Autonomous University of Coahuila, Mexico
14:00-14:20	**FSDM5053 (Invited Speech 7):** AI-Driven Anomaly Detection for Industrial Control Systems: From Structural Context to Reliable Diagnosis **Prof. Donghoon Shin**, Daegu Gyeongbuk Institute of Science and Technology (DGIST), Republic of Korea
14:20-14:35	**FSDM4940:** Seeing Less While Knowing More – Alert-Driven Pattern Mining in Large-Scale Control Systems **Prof. Wieland Schwinger**, Johannes Kepler University, Austria
14:35-14:50	**FSDM4964:** RainEye: A Weather-Aware IoT and Deep Learning System for Low-Latency Urban Flood Detection and Alerting **Dr. Mohammed Jubur**, Jazan University, Saudi Arabia
14:50-15:05	**FSDM4894:** Hybrid Approach to Modularization of Monolithic Application **Dr. Martin Bobak**, Slovak Academy of Sciences, The Slovak Republic

15:05-15:20	**FSDM5005:** Selection-Preserving Event-Triggered Multiquadric Adaptation in DRBEM for Nonlinear Reaction-Diffusion Equations **Asst. Prof. Krittidej Chanthawara**, Ubon Ratchathani Rajabhat University, Thailand
15:20-15:40	**Coffee Break** **@Ballroom Foyer (1st Floor)**
15:40-15:55	**FSDM4892:** Enhanced G-Learning and Generative Inverse Reinforcement Learning for Goal-Based Wealth Management with Adaptive Risk Adjustment **Mr. Tuan Anh Tran**, Foreign Trade University, Vietnam
15:55-16:10	**FSDM4992:** When Search Geometries Disagree: A Controlled Study of Discordance-Regularized Firefly Hyperparameter Optimization **Mr. Narongdech Dungkratoke**, Suranaree University of Technology, Thailand
16:10-16:25	**FSDM5017:** TRACE-VQ: Temporal-Aware Latent Formation with Shared-Routed Experts for Cross-Sectional Stock Prediction **Mr. Junwei Gan**, South China Normal University, China
16:25-16:40	**FSDM4984:** A Network for Open-Set Recognition of Wi-Fi RF Fingerprints Based on CNN and Mamba Style Modules **Ms. Ming Gu**, Sichuan University, China
16:40-16:55	**FSDM5049:** Risk-Aware Scenario Planning for Collaborative Community Recycling Using Transaction Data **Dr. Vichet Ludpa**, Yasothon Community College, Thailand
16:55-17:05	**Presenting Onsite-Oral Presentation Certificates**
17:05-17:15	**Thai-style Performance by AMIAMI Team from Thailand**
17:15-17:40	***Open-Microphone Session: "Vibe Coding & Generative AI in Science and Industry"** Proposed and Chaired by Dr. Konstantin Ryabinin, Heidelberg University, Germany
17:40-18:20	***Follow-Up Collaboration Session: What We Could Do Together After FSDM** Proposed and Chaired by Assoc. Prof. Sayan Kaennakham, Suranaree University of Technology, Thailand

*Notes:

Open Microphone Session: "Vibe Coding & Generative AI in Science and Industry

Generative AI has rapidly reshaped software development and scientific research. It unlocks extraordinary productivity gains, but it also introduces real risks – from code quality and reproducibility issues to shifts in the job market. Love it or hate it, Generative AI and Vibe Coding are here, and the academic community must actively frame how we adopt these tools reasonably and responsibly. This open microphone session is a space to share raw success stories, cautionary tales, and honest perspectives. Our goal is to kickstart a broader conversation on how Generative AI is redefining our fields and how we can steer these changes toward true progress.

Format: Short, slide-free lightning talks (3–5 minutes per speaker).

Discussion Points:

1. The Verdict: What is your stance on Generative AI and Vibe Coding – unmitigated progress, a risky shortcut, or something in between?
2. The Workbench: What is your hands-on experience using Generative AI in research or industry? Please share your wins, bugs, or blunders.
3. The Playbook: What is your expert advice for leveraging Generative AI effectively without losing rigour (or your mind)?

Follow-Up Collaboration Session: What We Could Do Together After FSDM

Our team from Thailand will present practical ideas for continuing academic collaboration after FSDM. We will look at how colleagues can start writing papers together, apply for research funding, and explore staff and student exchanges. We will also share ideas for bringing new partners into the network through our existing connections and helping more students present their research at future FSDM meetings.

Format: A presentation by the team from Thailand.

Separately, if some colleagues would like to explore these ideas further, we may invite them to continue the conversation informally over dinner.

Pre-recorded Video Oral Presentations

Please watch the videos online via (http://www.academicconf.com/video?confname=fsdm2026) during the conference period.

FSDM5018: Adaptive Hybrid Framework for Natural Disaster Damage Assessment Using Fuzzy Logic and Generative Models
Prof. Dimiter Velev, University of National and World Economy, Bulgaria

FSDM4988: A Power Set Scale for Expectation Intervals of Belief Functions
Dr. Xingyuan Chen, University of Electronic Science and Technology of China, China

FSDM4990: Ethical Risks of GenAI Application in College Ideological and Political Education: A Moral Alienation Perspective
Dr. Yanyu Zhou, National University of Defense Technology, China

FSDM5025 (Invited Speech 4): Multimodal Fusion and Efficient Spatiotemporal Modeling for Traffic Forecasting
Prof. Chao Zhang, Shanxi University, China

FSDM5030 (Invited Speech 5): Embodied AI for Sustainable Agriculture: Intelligent Sensing, IoT, and the Future of Post-Harvest Management
Dr. Razia Sulthana Abdul Kareem, University of Greenwich, UK

FSDM5020: A Conceptual Model for Intelligent Training in Natural Disaster Risk Management Using Digital Twins and Generative Artificial Intelligence
Prof. Dimiter Velev, University of National and World Economy, Bulgaria

FSDM4981: Quantifying Visual form Feature Contributions to Design Semantic Perception of Wooden Chairs Using Fuzzy Data Mining
Dr. Xiaohong Lin, Tsinghua University, China

FSDM4989 (Invited Speech 6): AI-Aging: An Integrated Omics-to-Primary Care Digital Infrastructure for Decentralized Longevity Health Systems
Prof. Ming Chen, Zhejiang University, China

FSDM5009: Explainable Text Mining of Medical Chatbot Outputs Using Multi-Word Units and Finite Automata
Prof. Alberto Postiglione, University of Salerno, Italy

FSDM4979: Fuzzy-Based Depth-First Sequential Pattern Mining from Health Administration Data for Early Detection of Juvenile Arthritis
Prof. Carson K. Leung, Brandon University, Canada

FSDM5028: Physics-Informed Neural Networks (PINNs) for Predicting Tumor Growth
Dr. Yajaira Cardona Valdes, Autonomous University of Coahuila, Mexico

FSDM5012: Computational Modelling of Problems Associated with the Heat, Wave, and Burgers Equations Using PINNs and GFDM
Mr. Oscar Joel Castro Contreras, Autonomous University of Coahuila, Mexico

DAY 4 | November 23, 2026 (Monday)

Field Investigation | Time: 09:00-12:30

Part III Keynote & Invited Speeches

Keynote Speech 1: *Processing and Mining Information from Time Series Using Fuzzy Modeling Methods*

Speech Time: 09:05-09:45, November 21, 2026 (Saturday)

Speaker: Prof. Vilem Novak, University of Ostrava, Czech Republic



Biography: Prof. Vilém Novák, DSc. is founder of the Institute for Research and Applications of Fuzzy Modeling of the University of Ostrava, Czech Republic. He obtained PhD in mathematical logic at Charles University in Prague, DSc. (Doctor of Sciences) in computer science in Polish Academy of Sciences, Warsaw, full professor at Masaryk University, Brno. His research activities include mathematical fuzzy logic, approximate reasoning, mathematical modeling of linguistic semantics, fuzzy control, processing of time series, and applications of fuzzy modeling. He is pioneer of the fuzzy set theory and author or co-author of 6 monographs and over 350 papers with almost 10000 citations.

Abstract: We will present special techniques of fuzzy modeling suitable for applications in time series processing, namely the Fuzzy Transform (F-transform) and selected methods of Fuzzy Natural Logic (FNL). The F-transform is applied to estimation of the trend or trend-cycle of time series, and to estimation of the slope of time series over an imprecisely specified area. Our methods are based on the decomposition of the time series into 4 components: trend, cycle, seasonal component, and random disturbances. The fuzzy transform makes it possible to find arbitrary shape of the trend or trend-cycle. It has been proved that using the F-transform, we can eliminate seasonal component and significantly reduce noise. Moreover, the computational complexity is low. Methods based on FNL have applications in mining information from time series. Among them, let us mention reduction of dimensionality, finding intervals of monotonous behavior and their characterization using expressions of natural language, finding perceptually important points, measure of similarity between time series, or automatic summarization of knowledge about time series. We also suggest a powerful method for detection and statistical testing of structural breaks in time series. We will compare our methods with traditional methods and demonstrate that they can on one hand successfully compete with them and on the other hand, both kinds of methods can be combined to increase the effectivity of the processing of time series.

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Keynote Speech 2: *Future Applications Based on Mobile Clouds and Software-Defined Networks*

Speech Time: 09:45-10:25, November 21, 2026 (Saturday)

Speaker: Prof. Sergei Gorlatch, University of Muenster, Germany



Biography: Sergei Gorlatch is Full Professor of Computer Science at the University of Muenster (Germany) since 2003. Earlier he was Associate Professor at the Technical University of Berlin, Assistant Professor at the University of Passau, and Humboldt Research Fellow at the Technical University of Munich, all in Germany. Prof. Gorlatch has more than 200 peer-reviewed publications in renowned international books, journals and conferences. He was principal investigator in several international research and development projects in the field of software for parallel, distributed, Grid and Cloud systems, machine learning, and networking, funded by the European Community and by German national bodies.

Abstract: We consider an emerging class of high-performance applications called Real-Time Online Interactive Applications (ROIA). ROIA are networked applications connecting a potentially very high number of users who interact with the application and with each other in real time, i.e., a response to a user's action happens virtually immediately. Typical representatives of ROIA are multiplayer online computer games, advanced simulation-based e-learning, and real-time data mining. All these applications are characterized by

high performance and QoS requirements, such as: short response times to user inputs (about 0.1-1.5 s); frequent state updates (up to 100 Hz); large and frequently changing numbers of users in a single application instance (up to tens of thousands simultaneous users). This talk will specifically address two challenging aspects of future applications: a) using Mobile Cloud Computing for allowing high application performance when a ROIA application is accessed from multiple mobile devices, and b) managing dynamic QoS requirements of ROIA applications by employing the emerging technology of Software-Defined Networking (SDN).

Keynote Speech 3: *From Crisp to Fuzzy Volterra Integral Equations: Piecewise Discontinuous Kernels and Proportional Delay*

Speech Time: 11:00-11:40, November 21, 2026 (Saturday)

Speaker: Prof. Samad Noeiaghdam, Henan Academy of Sciences, Zhengzhou, China



Biography: Prof. Samad Noeiaghdam, PhD of Applied Mathematics, is Research Professor of Henan Academy of Sciences, Zhengzhou, China. He was an Associate Professor of Irkutsk National Research Technical University, and a Senior Researcher in South Ural State University, Russia during 2019-2024. His main research interests are numerical analysis, solving mathematical models, fuzzy problems with applications, energy system problems, load leveling in energy storage, supply and demand systems, MHD and heat and mass transfer problems. He has more than 190 publications including several high-quality papers in top journals as well as books, chapters and conference papers. Because of his high-level activities in research and contribution to mathematical advancement globally he has been acknowledged as one of the top 2% scientists by Stanford University. He is the member of editorial board and guest editor in various journals and special issues.

Abstract: Volterra integral equations (VIEs) are important mathematical tools for modeling systems with memory and have applications in various fields of science, engineering, and applied mathematics. This talk begins with classical (crisp) VIEs and their numerical approximation, before extending the discussion to fuzzy Volterra integral equations, which allow uncertainty in the mathematical description of real-world systems. We then consider a more general class of fuzzy VIEs involving proportional delay and piecewise discontinuous kernels. In this setting, the discontinuity curves are defined by the proportional delay parameter. This structure partitions the original integral equation into several subintervals, each associated with its own continuous kernel and nonlinear term. We also establish the existence and uniqueness of solutions using a Picard-type iteration and the Gronwall inequality. For the numerical solution, we develop a collocation method based on piecewise fuzzy polynomial approximation and apply the Gauss--Legendre quadrature rule separately on each subinterval. We also derive an error bound in terms of the fuzzy modulus of continuity and investigate the performance of the proposed method through numerical examples. The results illustrate the accuracy and effectiveness of the approach for solving fuzzy Volterra integral equations with proportional delay and piecewise discontinuous kernels. The talk thus provides a systematic progression from classical Volterra integral equations to fuzzy formulations and, finally, to delay problems with discontinuous kernels, emphasizing the theoretical and computational challenges at each stage.

Invited Speech 1: *Equations in Ωalgebra in Classical Setting*

Speech Time: 11:40-12:00, November 21, 2026 (Saturday)

Speaker: Prof. Andreja Tepavcevic, Mathematical Institute SANU, Serbia



Biography: Dr. Andreja Tepavcevic is a principal research fellow at the Mathematical Institute of the Serbian Academy of Sciences and Arts (Mathematical Institute SANU) in Belgrade, Serbia, and a full professor at the Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad. She graduated with two tracks in Informatics and Mathematics and defended a Ph.D. thesis at the University of Novi Sad. She was a visiting professor and gave courses and seminar lectures at more than 25 universities worldwide, including many EU countries, Japan, the USA, Russia, and others. She gave tutorials at FUZZ-IEEE conferences and was a plenary and invited speaker at many conferences. She supervised six Ph. D.s, several master's and graduate theses. Her main research is in lattice theory and theory of ordered sets; fuzzy set theory and applications, with about 200 refereed publications in journals, chapters in monographs, international conferences, one research monograph, and 10 university textbooks. She is an associate editor and a member of the editorial board of several journals, including Fuzzy Sets and Systems, the coordinator of several research projects (national and international), and the head or a member of organizing and program committees of several conferences. From 2023-2026, she is the coordinator of the project "Advanced Techniques of Mathematical Aggregation and Approximative Equations Solving in Digital Operational Research - AT-MATADOR" financed by the Science Fund of the Republic of Serbia. Currently, she is the chairperson of the Artificial Intelligence Seminar at Mathematical Institute SANU http://www.mi.sanu.ac.rs/novi_sajt/research/seminars/ai.php and the head of the Computer Science department at Mathematical Institute SANU.

Abstract: An Ωalgebra is a kind of fuzzy algebra in the lattice-valued framework, with an algebra equipped with a latticevalued equality. Algebra identities are satisfied as special lattice-valued formulas, and as a consequence, cuts of equality correspond to weak congruences of the underlying crisp algebra. In earlier work, we investigated many types of Ωalgebras. Recently, in an attempt to study consequences of our work in the classical setting with the [0,1] interval, we have studied connections with chains in weak congruence lattices. Building on this foundation, we now turn to the classical setting of Ωgroups and Ωquasigroups, where subgroup lattices and weak congruence lattices interact directly with the solvability of equations. Classical group theory provides deep results on solvability: equations in groups are closely tied to subgroup chains, normal series, and congruence relations. In particular, solvability of equations often reflects the structure of chains in subgroup lattices, such as composition series or chains of normal subgroups. These chains serve as algebraic witnesses to the existence of solutions, linking latticetheoretic properties with equation solvability. Similarly, in quasigroups, congruence chains impose constraints on the solvability of functional equations, revealing structural parallels with group theory. Our contribution demonstrates that chains of weak congruences in Ωgroups can be systematically aligned with chains in subgroup lattices, thereby providing a latticevalued framework for analyzing solvability of equations. Extending this approach to Ωquasigroups, we show how weak congruence chains capture algebraic conditions that govern equation solvability in nonassociative settings. These results enrich the representation theory of Ωalgebras by connecting chains of weak congruences with classical solvability theory, offering a unified perspective that bridges discrete subgroup lattices, weak congruence structures, and equation systems in both groups and quasigroups. In this way, by dealing with numbers, we are able to approximately solve some types of equations.

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Invited Speech 2: *Functionally Justified Integration of Quantum Computing, Generative Artificial Intelligence and Extended Reality for Adaptive Immersive Learning*

In Parallel Oral Session 2: AI, and Intelligent Computing for Society, Education, and Interdisciplinary Applications

Speech Time: 14:00-14:20, November 21, 2026 (Saturday)



Speaker: Prof. Dimiter Velev, Department of Informatics at the University of National and World Economy (UNWE), Sofia, Bulgaria

Biography: Prof. Dr. Dimiter Velev is with the Department of Informatics at the University of National and World Economy (UNWE), Sofia, Bulgaria (https://www.unwe.bg/en/). Dimiter Velev is the Director of the Science Research Center for Disaster Risk Reduction at UNWE. He holds a M.Sc. degree in Electro-Engineering from the Sofia Technical University, Bulgaria and a Ph.D. degree in Computer Systems, Complexes, Systems and Networks from the Pukhov Institute for Modelling in Energy Engineering at the National Academy of Sciences of Ukraine. Prof. Velev is a member of the International Federation for Information Processing (IFIP) (http://ifip.org/), in which he is the Chair of Technical Committee #5 – Information Technology Applications (https://www.ifip.org/bulletin/bulltcs/memtc05.htm). Prof. Velev is also the Chair of the IFIP Domain Committee on Quantum Computing. Prof. Velev's main areas of academic and R&D interest are Information Technology, Integrated Information Systems for Disaster Management, Artificial Intelligence, Cybersecurity, Virtual Reality, Quantum Computing. He is a regular chair and a keynote speaker of conferences in Asia and Europe and a reviewer of many scientific publications in journals and conferences.

Abstract: The rapid development of generative artificial intelligence (GenAI), extended reality (XR), and quantum computing (QC) creates new opportunities for adaptive and immersive learning, but technological combination alone does not guarantee pedagogical or computational value. The aim of the invited speech is to propose the Quantum-Generative Immersive Education (QGIE) conceptual architecture, based on the principle of functionally justified technological integration. The architecture organizes learning as a closed adaptive loop linking learner interaction, a dynamic learner model, pedagogical decision-making, computational requirement extraction, technology-resource selection, GenAI adaptation, and XR realization. A Quantum Justification Framework (QJF) is proposed, introducing a mandatory classical baseline, feasibility and quantum relevance screening, multicriteria comparison, and a Quantum Justification Index (QJI). The principal contribution is the shift from technology-driven integration toward a pedagogy-first, function-first, and technology-selective architecture in which a quantum resource is activated only when it provides sufficiently justified functional value relative to the applicable classical alternative.

Invited Speech 3: *Towards Digital Twins for Energy Transmission Infrastructure: Multimodal Sensing, Data Fusion, and Early-Warning Analytics*

In Parallel Oral Session 2: AI, and Intelligent Computing for Society, Education, and Interdisciplinary Applications

Speech Time: 14:20-14:40, November 21, 2026 (Saturday)



Speaker: Dr. Martin Bobák, Senior Research Scientist, Institute of Informatics, Slovak Academy of Sciences, The Slovak Republic

Biography: Martin Bobák is a senior research scientist at the Institute of Informatics of the Slovak Academy of Sciences, where he is also a member of the Scientific Board. He has participated in multiple RIA/IA projects, including FP7, H2020, and Horizon Europe research programs, as well as Slovak national research projects. He was a deputy leader of a work package in the PROCESS project funded by the European Union's Horizon 2020 excellent science research and innovation program, and he is a principal investigator of a Slovak Scientific Grant Agency project. He is the author or co-author of more than 30 scientific publications in the field of cloud computing, artificial intelligence, and data science, with over 1000 citations.

Abstract: Enhancing the resilience of electricity transmission infrastructure requires timely situational awareness, reliable diagnostics, and actionable early warnings under uncertain and heterogeneous conditions. The presented results are achieved from an integrated research effort focused on digital technologies and

analytical models for critical infrastructure monitoring, with emphasis on experimental validation in controlled and pre-operational settings. It covers a modular approach combining remote sensing, field telemetry, operational logs, and physical simulation to support future digital twin and early-warning capabilities. The presented work is derived from multiple data modalities and demonstrators. Airborne hyperspectral campaigns (VNIR/SWIR) over selected Slovak localities produced a georeferenced and annotated dataset enabling ecological and infrastructure mapping, including a labelled geodatabase of vegetation and non-vegetation structures. Complementary LiDAR point clouds were processed into classified outputs and canopy height models suitable for 3D integration. For condition monitoring, acoustic diagnostics assessed the feasibility of detecting patterns related to high-voltage insulators using large-scale audio recordings and power lines audio embeddings, while telemetric meteorological observations were analysed to identify conditions linked to moisture-driven degradation, and dust contamination. On the operational side, SCADA/RIS logs and PMU phasor measurements were investigated for synchronization, causality inference, and precursor detection using deep learning concepts (e.g., sequence models and graph-based architectures). Finally, fire-risk assessment was explored through Fire Dynamics Simulator scenarios to study vegetation heterogeneity effects and establish methodological foundations for calibration to local conditions.

Invited Speech 4: *Multimodal Fusion and Efficient Spatiotemporal Modeling for Traffic Forecasting*

In Parallel Oral Session 3: Interdisciplinary Field of Fuzzy Logic and Data Mining
Speech Time: November 22, 2026 (Sunday) (Pre-recorded Video Speech)



Speaker: Prof. Chao Zhang, Institute of Intelligent Information Processing, Shanxi University, China

Biography: Chao Zhang is a Professor at the Institute of Intelligent Information Processing, Shanxi University, China. His research interests include data mining, time-series analysis, and intelligent decision-making. He has published more than 100 papers in leading conferences and journals, including The ACM Web Conference, IJCAI, CIKM, and several IEEE Transactions, and has authored two academic monographs and holds several national invention patents. He has led more than ten research projects supported by the National Natural Science Foundation of China and other funding programs. His research has received the Second Prize of the Natural Science Award of Shanxi Province. He currently serves as an Associate Editor of Computational Intelligence and an Editorial Board Member of Information Processing & Management and has been listed among the World's Top 2% Most-Cited Scientists.

Abstract: Accurate traffic forecasting requires effective modeling of temporal dynamics, spatial interactions, and heterogeneous data sources. This invited talk presents our recent studies on multimodal fusion and efficient spatiotemporal modeling for traffic forecasting. We first investigate multimodal metro flow prediction under distributed and privacy-sensitive settings, where cross-modal alignment, efficient long-range sequence modeling, and collaborative learning are jointly considered to improve predictive robustness. We then explore adaptive traffic flow forecasting by combining multi-scale temporal representations, multi-granularity spatial graph construction, and cross-domain feature interaction to better capture complex spatiotemporal dependencies. Moving toward finer-grained traffic analysis, we further study lane-level forecasting with dynamic spatial memory and bidirectional knowledge transfer, aiming to improve both modeling efficiency and adaptability across traffic scenarios. Finally, we broaden the discussion to vision-spatiotemporal fusion, examining how visual observations can be aligned with structured traffic dynamics at different representation levels, and highlighting the semantic and geometric gaps that remain in current forecasting systems. Together, these studies illustrate a progression from multimodal representation and adaptive spatiotemporal learning toward more robust, generalizable, and spatially aware traffic forecasting.

Invited Speech 5: *Embodied AI for Sustainable Agriculture: Intelligent Sensing, IoT, and the Future of Post-Harvest Management*

In Parallel Oral Session 3: Interdisciplinary Field of Fuzzy Logic and Data Mining

Speech Time: November 22, 2026 (Sunday) (Pre-recorded Video Speech)



Speaker: Dr. Razia Sulthana Abdul Kareem, PhD, FHEA, Senior Lecturer, Department of Computing and Mathematical Sciences, University of Greenwich, UK

Biography: Dr. Razia Sulthana Abdul Kareem is an academic and researcher in the field of Computer Science and Artificial Intelligence, with over a decade of experience in higher education and research. She currently serves as a Senior Lecturer in the Department of Computing and Mathematical Sciences at the University of Greenwich, UK. Her expertise spans across Machine Learning, Artificial Intelligence, Big Data Analytics, and Computer Vision, with a strong focus on real-world applications, including healthcare, agriculture, and remote sensing. She is actively involved in collaborative projects with the Natural Resources Institute, University of Greenwich, developing machine learning solutions for fungal infection detection in stored fruits and real-time vegetation canopy segmentation. Dr. Razia has an extensive publication record, with 50 international journal articles published in IEEE, Elsevier, Springer, and other reputed platforms, along with 8 conference papers, 2 book chapters, and 3 patents. She has also served as an invited keynote speaker and session chair at multiple international conferences and faculty development programs. She has received multiple certifications from IBM, NVIDIA, Microsoft, Udacity, and Coursera, further strengthening her technical expertise. Recognized for her contributions to academia, Dr. Razia is a Fellow of the Higher Education Academy (FHEA, UK). Her work continues to make a significant impact on the fields of AI, machine learning, and applied data science, with a commitment to fostering innovation and sustainable technological solutions.

Abstract: The integration of artificial intelligence, advanced sensing, and embodied intelligent systems is opening new opportunities to transform agricultural production and post-harvest management. This speech explores how AI-enabled sensing and machine learning can support early detection, prediction, and management of quality deterioration in stored pome fruits, with particular emphasis on the analysis of chemical volatiles and other non-invasive sensing signals. By combining intelligent sensing with data-driven models, it becomes possible to move from conventional, reactive approaches to predictive and intelligent post-harvest management. AI systems can identify early indicators of deterioration, classify fruit conditions, optimize storage environments, and support decisions on when produce should be released to the market. These capabilities have direct relevance to embodied intelligence, where sensing, perception, decision-making, and physical action must operate together in complex real-world environments. The speech will examine the broader industrial, economic, and societal implications of these technologies. For industry, intelligent early-warning systems can help protect large quantities of high-value agricultural produce and improve supply-chain efficiency. Economically, improved prediction and intervention can reduce avoidable post-harvest losses and associated financial costs. From a societal perspective, intelligent assessment of fruit quality can contribute to food security, sustainability, waste reduction, and safer decisions regarding food entering the consumer market. The speech will conclude by considering how the convergence of AI, sensor fusion, and agricultural science can contribute to a new generation of intelligent, sustainable, and resilient food systems.

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Invited Speech 6: *AI-Aging: An Integrated Omics-to-Primary Care Digital Infrastructure for Decentralized Longevity Health Systems*

In Parallel Oral Session 4: Special Session on Digital Transformation from Omics to Primary Care in Decentralized Health Systems (Omics2Care)

Speech Time: November 22, 2026 (Sunday) (Pre-recorded Video Speech)



Speaker: Prof. Ming Chen, Department of Bioinformatics, College of Life Sciences, Zhejiang University, China

Biography: Prof. Ming Chen is the director of the Bioinformatics Laboratory at the College of Life Sciences, and is the leading figure in the field of Bioinformatics at Zhejiang University, China. He obtained his Ph.D. in Bioinformatics from Bielefeld University, Germany, in 2004. He was seconded to the Fundamental Research Department of the Ministry of Science and Technology, served as the president's assistant and was specially appointed dean at Inner Mongolia Minzu University. Prof. Chen's research work covers bioinformatics, systems biology, non-coding RNA transcriptomics, and precision medicine. He has published over 200 academic papers in peer-reviewed journals such as Cell, Nature, Nucleic Acids Research, Bioinformatics, etc. with his Google Scholar H-index over 59. He has been included in the list of top 2% scientists of the world.

Abstract: The digital transformation of decentralized healthcare demands integrated multi-omics datasets, population health records and translational evidence to support primary care clinical decisions. However, fragmented biological databases and disconnected analytical pipelines create major barriers to translating aging research into real-world healthcare practice. To tackle this challenge, we built AI-Aging, a unified AI-based digital infrastructure delivering an end-to-end translational pipeline spanning multi-omics profiling to population-wide aging health management. The system consists of four standardized, interoperable sub-platforms: HALDxAI, a large-scale aging knowledge graph containing 2.8 million biological nodes and 180 million relational links to dissect aging mechanisms; ARIES, a literature-derived evidence graph enabling traceable causal connections between geroprotective chemicals, molecular pathways and aging phenotypes; AITED, a translational database curating more than 8,700 aging interventions to measure translational gaps and safety signals for clinical trial design; and Fluxera, an interpretable predictive model trained on a cohort of 178,000 participants to map population aging trajectories and forecast individual health risks. Uniform data schemas, open APIs and traceable evidence chains are implemented across all modules, forming a closed-loop system for omics fusion, mechanistic interpretation, intervention assessment and population health forecasting. This infrastructure connects fundamental multi-omics findings with on-the-ground decentralized primary care, establishing a solid digital framework for precision aging intervention and equalized longevity health management.

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Invited Speech 7: *AI-Driven Anomaly Detection for Industrial Control Systems: From Structural Context to Reliable Diagnosis*

In Oral Session 5: Special Session on Applied Mathematics and Intelligent Algorithms for Modern Industry (AMIAMI), 3rd Edition

Speech Time: 14:00-14:20, November 22, 2026 (Sunday)



Speaker: Prof. Donghoon Shin, Department of Electrical Engineering and Computer Science, Daegu Gyeongbuk Institute of Science and Technology (DGIST), Republic of Korea

Biography: Dr. Donghoon Shin is an Associate Professor in the Department of Electrical Engineering and Computer Science at Daegu Gyeongbuk Institute of Science and Technology (DGIST), Republic of Korea. He received his M.S. and Ph.D. degrees in Computer Science from KAIST, Republic of Korea. Prior to joining DGIST, he worked as a Senior Researcher in the Department of Critical Infrastructure Protection at the National Security Research Institute (NSRI), where he conducted research on cybersecurity for critical infrastructure. His research interests include cybersecurity for industrial control systems (ICS), AI-based anomaly detection, digital twins, and information hiding. His recent research focuses on anomaly detection and diagnosis for industrial systems, automated identification and monitoring of ICS environments, privacy-preserving anomaly detection, and steganography and digital watermarking. He has

published his research in international journals and conferences including the IEEE Internet of Things Journal, Computers & Security, IEEE Embedded Systems Letters, IEEE Access, ACM SIGKDD, and Interspeech. He is also actively leading government-funded research projects on digital twin-based fault diagnosis and prediction for power plants and robust information hiding technologies.

Abstract: Industrial Control Systems (ICSs) are at the core of critical infrastructure, where cyberattacks and system anomalies can affect not only digital assets but also the reliability and safety of physical processes. Unlike conventional IT systems, ICSs exhibit strong physical and logical dependencies among sensors, actuators, and controllers, as well as complex temporal behavior and changing operating conditions. These characteristics present unique challenges for AI-driven anomaly detection. In this talk, I will present our recent research on anomaly detection for ICSs, focusing on how structural and temporal context can be incorporated into AI-based monitoring. We first explore a functional patch-based approach that decomposes complex industrial systems into functionally meaningful units based on their physical and logical relationships. Building on this structural perspective, we introduce DRAMA, a drift-aware memory-augmented spatio-temporal graph attention framework that jointly captures physical topology, behavioral relationships, long-term temporal dependencies, and device-specific drift under evolving operating conditions. Beyond detecting anomalies, effective ICS monitoring requires operators to understand where an anomaly originates and how it relates to the underlying control process. To address this challenge, we further discuss ICSDiag, which connects anomaly detection with process-aware diagnosis and uses a constrained language-model-based approach to support reliable investigation while reducing unsupported diagnostic claims. Finally, I will discuss emerging challenges in evaluating ICS anomaly detection, highlighting the need to move beyond conventional point-wise metrics toward event-level detection, localization, and operationally meaningful diagnosis.

Part IV Oral Presentation

Oral Presentation Guidelines

- The oral presentations include the forms of onsite presentations and online presentations. The online presentations are all pre-recorded video presentations.
- The regular oral presentation is 15 minutes including 2-3 minutes for Q&A; the invited speech is 20 minutes including 2-3 minutes for Q&A.
- For oral presentations, please make the following preparations:
  1) The presentation PowerPoint or PDF file should be formatted with figures and tables included; plain text is not recommended.
  2) Speakers are recommended to bring their presentation data in the form of PPT or PDF file by a USB memory stick and send one copy to the organizing committee as a backup via email fsdm@fsdmconf.org or upload it to the submission system via clicking "More"→ "Upload Oral Files". For those who have not sent a file to the committee or any update needed, please copy it to the laptop in the session room about 15 minutes before the starting time, and make sure it could be normally displayed.
- The pre-recorded videos for regular oral presentations or invited speeches should be uploaded to submission system **before November 10, 2026** in the format of **.mp4** with a volume less than 300MB and time duration should be 10-15 mins. Please keep the speaker's face visible throughout the video, and speak in a clear, loud voice.
- The PPT file for oral presentation could be designed as you like with requirements as below:
  - ✓ The conference logo should be added to each PPT slide (a ppt sample can be downloaded via "Files Download" at FSDM 2026 homepage)
  - ✓ Paper ID, title, presenter and affiliation information should be indicated in the first slide
- All speakers should inform the Session Chair (before the start of your Session) that you are in the meeting room.
- At the conclusion of each oral session, the session chair will formally present a signed and stamped oral presentation certificate to each presenter and take individual photos with them. Following this, the session chair will join all presenters for a group photo.

Best Oral Presentation Awards

Selection Criteria

The best presentation will be selected based on the following items:

- ✓ Research Quality
- ✓ Presentation Performance
- ✓ Language Presentation
- ✓ Interaction with Listeners
- ✓ PowerPoint Design
- ✓ Effective Communications

Selection Procedure

- ➢ An assessment sheet will be delivered to listeners before the session.
- ➢ Write the numbers of two candidates for best presentations and submit the filled assessment sheet (with the listener's name and signature) to the Session Chair before the session termination.
- ➢ The Session Chair will count the votes for each presentation and name the winner based on the maximal number of votes. The Session Chair has three votes but can use only one in favor of his/her own presentation (if any). To avoid any conflict of interest, only registered listeners are entitled to vote.
- ➢ The Best Oral Presentation Awards are open to contributed regular oral presentations only.
- ➢ **Five Best Oral Presentation Awards** from five oral sessions will be announced on FSDM 2026 website.

Nature of the Award

- ➢ This award consists of free registration for the next conference FSDM 2027 and a certificate.

Assessment Sheet Sample

FSDM 2026 Oral Presentation Assessment

Dear participants,

After carefully listening to the presentations of this session, please kindly recommend two excellent Oral Presentations with reference to the following evaluation criteria.
The Session Chair will count the votes from each presentation and select One Best Oral Presentation in this session. If there is a tie, the Session Chair will make the final decision.
The winner will be announced at the official website after the conference.

You can refer to the following Criteria:

Items	Assessment
Content	Right, Logical, Original, Well-Structured
Language	Standard, Clear, Fluent, Natural
Performance	Spirited Appearance, Dress Appropriately, Behaves Naturally
PPT	Layout, Structure, Typeset, Animation, Multimedia
Reaction	Build a Good Atmosphere, Speech Time Control Properly

Please write down paper ID and give reasons for your recommendation for two candidates:

Paper ID	Reasons

Evaluated by: _____ (Paper ID: _____)

Note: When the session finished, please fill it out and give it to the Session Chair so that the Best Oral Presentations in this session can be selected.

Part V Conference Venue

Regency Art Hotel

麗景灣藝術酒店

Address: 2 Estrada Almirante Marques Esparteiro, Taipa, Macau
澳門史伯泰海軍將軍馬路 2 號
Telephone: 853 2883 1234
Website: www.regencyarthotel.com.mo/index.php/



Access to Regency Art Hotel

1. From Macao Airport (澳門國際機場)

• About 4 KM

• Approx. 8 - 10 minutes by taxi

• Approx. 40 minutes by bus MT1, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

2. From Border Gate Terminal (澳門關閘)（注：大陸方向為拱北口岸）

• About 10 KM

• Approx. 15 - 20 minutes by taxi

• Approx. 45 - 60 minutes by bus No. 25, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

3. From Hong Kong- Zhuhai-Macao Bridge Frontier Port (港珠澳大橋澳門口岸)

• About 16 KM

• Approx. 25 minutes by taxi

• Approx. 45 - 60 minutes. Take bus No.102X, and get off at Chun Lai Garden (泉澧花園)

4. From New Hengqin Port (橫琴口岸澳門口岸)

• About 9 KM

• Approx. 20 minutes by taxi

• Approx. 30 - 40 minutes. Take bus No. 101X, and get off at T300 Esparteiro/Lou Lim Ieok (史伯泰/盧廉若站)

Part VI Field Investigation

Monday, November 23, 2026 | Time: 09:00-12:30	
09:00	**Depart from Regency Art Hotel** Gather at the lobby of the hotel and set off by tour bus on time
09:00-10:00	**Ruins of St. Paul**
10:00-11:00	**A-Ma Temple**
11:00-12:00	**Maritime Museum**
12:00-12:30	**After Arrival at The Venetian Macao, Disband on the Spot**

Note: This itinerary is subject to changes based on operational needs and the tour guide's instructions.

Tips:

1) Participant information is required for registration.

2) Please present your Tour Ticket when getting on the tour bus. Please take care of your Tour Ticket as it is the only access to the tour.

3) Please follow the arrangement of the guide. Participants are not allowed to leave the team without permission.



Ruins of St. Paul



A-Ma Temple



Maritime Museum



The Venetian Macao

Part VII Acknowledgements

On behalf of the FSDM 2026 Organizing Committee, we would like to take this opportunity to express our sincere gratitude to our participants. Without their support and contributions, we would not be able to hold the conference successfully. We would also like to express our acknowledgements to the Technical Program Committee (TPC) members who have given their professional guidance and valuable advice as reviewers. Below are the lists of the Organizing Committee and TPC members. For those who contribute to the success of the conference organization without listing the names here, such as anonymous reviewers and experts, we would love to say thanks as well.

FSDM 2026 Organizing Committee[1]

Technical Program Committee (TPC) Co-Chairs

Prof. Dr. Mohammed Chadli, IBISC Lab., University Paris-Saclay Evry, France
Prof. Dr. Vilem Novak, Institute for Research and Applications of Fuzzy Modeling, University of Ostrava, Czech Republic

TPC Members

A

Dr. Razia Sulthana Abdul Kareem, Senior Lecturer, School of Computing & Mathematical Sciences (CMS), Faculty of Engineering and Science (FES), University of Greenwich, Old Royal Naval College, UK
Dr. Hijaz Ahmad, Associate Professor, Operational Research Center in Healthcare, Near East University, Turkey
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Dr. Mario G.C.A. Cimino, Associate Professor, Department of Information Engineering, University of Pisa, Italy

[1] Sort in alphabetical order by the first letter of the surname.

Dr. Stefano Cirillo, Department of Computer Science, University of Salerno, Italy
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Dr. Gautam Srivastava, Professor, Department of Computer Science, Brandon University, Canada

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Dr. Antonio J. Tallón-Ballesteros, Professor, Department of Electronic, Computer Systems and Automation Engineering, University of Huelva, Spain

Dr. Andreja Tepavčević, Full Professor at the Department of Mathematics and Informatics, University of Novi Sad & Mathematical Institute of the Serbian Academy of Sciences and Arts, Serbia

Dr. Stefania Tomasiello, Associate Professor, Department of Industrial Engineering, University of Salerno, Italy; Visiting Professor, Institute of Computer Science, University of Tartu, Estonia

Dr. Oleksii Tyshchenko, Researcher, Institute for Research and Applications of Fuzzy Modeling, University of Ostrava, Czech Republic

W

Dr. Xinxing Wu, Assistant Professor, Midway University, Kentucky, United States

X

Dr. Fuyuan Xiao, Professor, School of Big Data and Software Engineering, Chongqing University, China

Y

Dr. Linda Yang, Senior Lecturer, School of Computing, University of Portsmouth, UK

Dr. Hongchuan Yu, National Centre for Computer Animation, Bournemouth University, UK

Dr. Yingwei Yu, Applied Science Manager, Amazon Web Services (AWS), USA

Z

Dr. Chao Zhang, Professor, Shanxi University, China

Dr. Deli Zhang, Professor, Changchun Normal University, China

Dr. Yichuan Zhao, Professor, Department of Mathematics & Statistics, Georgia State University, USA

Part VIII Invitation Letter to FSDM 2027

As FSDM 2026 draws to a close, we are excited to announce that the 13th International Conference on Fuzzy Systems and Data Mining (FSDM 2027) is scheduled to be held at Huaqiao University (Xiamen campus), Xiamen, China from November 12 to 15, 2027. Continuing its legacy as a premier academic platform, it will gather global experts to share cutting-edge findings in fuzzy systems, data mining, and their interdisciplinary frontiers. Save the date! We look forward to welcoming you to Xiamen for inspiring exchanges and collaborations. For updates, stay tuned to our official channels.

Conference Name: The 13th International Conference on Fuzzy Systems and Data Mining (FSDM 2027)

Date: November 12-15, 2027

Venue: Huaqiao University (Xiamen campus), Xiamen, China

Brief Program:

Friday, November 12, 2027
Registration
Saturday, November 13, 2027
Opening Ceremony, Keynote & Invited Speeches, Poster & Oral Presentations, Welcome Banquet
Sunday, November 14, 2027
Invited Speeches, Oral Presentations and Awarding & Closing Ceremony
Monday, November 15, 2027
Field Investigation



Xiamen City, Fujian Province, China