ISFSEA 2026

OFFICIAL CONFERENCE TIMETABLE

November 18–19, 2026 • Online • UTC

ISFSEA — Conference Home

Program at a glance

Date	Time	Session	Venue
18 Nov	04:30–06:30 UTC	Opening ceremony & three keynotes	Main Room
18 Nov	06:30–10:00 UTC	Panels P01–P02	Rooms 1–2
18 Nov	10:00–11:30 UTC	Three keynote presentations	Main Room
18 Nov	11:30–15:00 UTC	Panels P03–P06	Rooms 3–6
19 Nov	06:30–08:00 UTC	Three keynote presentations	Main Room
19 Nov	08:00–11:00 UTC	Panels P07–P09	Rooms 7–9
19 Nov	11:30–15:00 UTC	Panels P10–P12	Rooms 10–12
19 Nov	15:00–15:30 UTC	Closing ceremony	Main Room
19 Nov	09:00–12:00 Iran	Panel P13 (parallel, Persian-language track)	Room 13
19 Nov	14:00–17:00 Iran	Panel P14 (parallel, Persian-language track)	Room 14

Each regular paper: 10 minutes presentation + 5 minutes Q&A. Each standard keynote: 20 minutes presentation + 10 minutes Q&A.

Opening Ceremony — Day 1

18–19 November 2026 | Online conference | All international sessions: UTC

ISFSEA: Official conference website

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UTC time	Activity/Speaker	Speech Title
04:30–04:40	Opening and welcome	Conference Organizing Committee
04:40–05:00	Keynote Speech: Prof. Yiyu Yao	Thinking in Threes: Bridging Three-Way Decisions, Fuzzy Sets, and Rough Sets
05:00–05:10	Q&A by Prof. Yiyu Yao	-
05:10–05:30	Keynote Speech: Dr. Harish Garg	Aspects of Decision-Making Process
05:30–05:40	Q&A by Dr. Harish Garg	-
05:40–06:00	Keynote Speech: Dr. Saleem Abdullah	The role of Fuzzy logic in Fuzzy Inference Systems and Artificial Intelligence
06:00–06:10	Q&A by Dr. Saleem Abdullah	-
06:10–06:25	Conference videos / organizational announcements	Conference Organizing Committee
06:25–06:30	Transition to parallel panels	-

Panel 01

ISFSEA 2026 | International track

JOIN PANEL ROOM 01

Fuzzy Decision Intelligence, Business Analytics and Digital Transformation

Date	Panel Chair	Panel Manager	Time
Wednesday, 18 November 2026	Dr. Amirhossein Nafei	Ms. Chabok	06:30–10:00 UTC

8 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
60	Maher Nawkhass	A Hybrid Neutrosophic Digital Twin Framework for Resilient and Sustainable Supply Chain Optimization	06:30–06:40	06:40–06:45
102	Fatemeh Zeinali Tajani, Sina Abdari, Maryam azmoudeh chokami	Prioritizing Virtual Influencer Risks in an Apparel Campaign Using Fuzzy FMEA	06:45–06:55	06:55–07:00
107	Amrinder Singh, Dr.Swapna HR	Bridging the Digital Divide: Innovative Approaches for Enhancing Digital Literacy and Technological Skills Among Underserved Youth in South Interior Karnataka	07:00–07:10	07:10–07:15
132	Saba Saghafi, Alireza Hamidieh	Fuzzy And Possibilistic Optimization for Supply Chain Network Design A Structured Critical Review of Thirty Studies	07:15–07:25	07:25–07:30
141	koorosh Karaminezhad	A Data-Integrated Neural and Strategic Modelling Approach for Retail Supply Chain Resilience	07:30–07:40	07:40–07:45
158	koorosh Karaminezhad, Babak Hazratifar	Prioritizing Emerging Artificial Intelligence and Digital Technologies in the Iranian Banking Industry: A Hybrid Approach Based on Game-Theoretic Combination Weighting and the MARCOS Method	07:45–07:55	07:55–08:00
208	Phi-Hung Nguyen, Huong- Giang Hoang Le, Thi- Le Ho, Phuong-Thao Cao Thi	A DEMATEL Model-Based Neutrosophic Sets for Critical Success Factors in Building Investor Trust in Crowdfunding Platforms: A Vietnamese Perspective	08:00–08:10	08:10–08:15
223	Basavaraj Rajkumar Jante, Aditi Gupta, Girish G R, Chhavi Jaiswal, N.Satheesh, Allamaprabhu C Y	Eye witness AI - (Intelligent public safety & emergency response system)	08:15–08:25	08:25–08:30

Panel 02

ISFSEA 2026 | International track

JOIN PANEL ROOM 02

Advances in Fuzzy and Neutrosophic Statistics for Uncertainty Modelling and Data-Driven Decision Making

Date	Panel Chair	Panel manager	Time
Wednesday, 18 November 2026	Dr. Rahul Thakur	Dr. Motallebi	06:30–10:00 UTC

8 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
59	Michael Bassey, Aniekan Ikpe, Imoh Ekanem	Multi-criteria Optimization of TIG welding Parameters Using q-Rung Orthopair Fuzzy Logic for enhanced Mechanical and Metallurgical Weld quality	06:30–06:40	06:40–06:45
83	Mohamed Imran Nazeer K, U. Abuthahir	Enhance Higher-order Fuzzy Time Series Forecasting of University Enrollment Using Weight Matrix and Dynamic Trend Adjustment	06:45–06:55	06:55–07:00
105	Maikel Yelandi Leyva-Vázquez, Florentin Smarandache	Typed Indeterminacy: Where the I in (T, I, F) Comes From, What It Means, and What Can Be Guaranteed, from Neutrosophic to Plithogenic Statistics	07:00–07:10	07:10–07:15
168	Madeleine Lim Sai Mei Lin	Hybrid Cosine-Jaccard Similarity Measure for Neutrosophic Set in Laptop Product Selection on Malaysian E-Commerce Platforms	07:15–07:25	07:25–07:30
188	K. Sangeetha, P. Solairani	Total Global Domination in Interval Valued Fuzzy Graphs	07:30–07:40	07:40–07:45
218	Iman Mehrabi, Aliasghar Sadeghi	Fuzzy Explainable AI for EV Charging Management: A Critical Review	07:45–07:55	07:55–08:00
220	Olasina Jamiu Rotimi, Aliu Olaniyi Habib, Egungbohun Oluwafisayomi, Awosedo Olawale	Uncertainty-Aware Machine Learning QoS Prediction for SOA/5G Core over Fading Channels: Fuzzy Linguistic Characterization of Simulation Delay Data and Preliminary Delay Forecasting	08:00–08:10	08:10–08:15
76	Muntaha Purkha, Tabasam Rashid, Tanveer Hussain	Fuzzy Based Modeling for Bone Marrow Matching Using Cartesian and Composition Inuence Product	08:15–08:25	08:25–08:30

MAIN ROOM / NOVEMBER 18

Day 1 — Pre-Afternoon Keynotes

18–19 November 2026 | Online conference | All international sessions: UTC

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UTC time	Activity/Speaker	Speech Title
10:00–10:20	Keynote Speech: Prof. Andrzej Skowron	Rough and Fuzzy Sets in AI Systems Based on Interactive Granular Computing
10:20–10:30	Q&A by Prof. Andrzej Skowron	-
10:30–10:50	Keynote Speech: Dr. Nivetha Martin	A Novel ALA-Based Multi-Criteria Decision-Making Framework for Context-Sensitive Teaching Pedagogy Selection in Higher Education
10:50–11:00	Q&A by Dr. Nivetha Martin	-
11:00–11:20	Keynote Speech: Dr. Shahzaib Ashraf	Disc Spherical Fuzzy Z-Numbers: Analysis and Decision Applications
11:20–11:30	Q&A by Dr. Shahzaib Ashraf	-

Panel 03

ISFSEA 2026 | International track

JOIN PANEL ROOM 03

Hyperbolic Fuzzy Sets (HyFS): Theoretical Foundations, Advanced Information Measures, and Real-World Decision-Making Applications

Date	Panel Chair	Panel Manager	Time
Wednesday, 18 November 2026	Dr. Palash Dutta	Dr. Ghaziani	11:30–15:00 UTC

11 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
124	Nemanja Vučićević, Nenad Stojanović	Advancing Intuitionistic Fuzzy Soft Decision Making: A New Approach and Comparative Analysis	11:30–11:40	11:40–11:45
130	Abbasali Monzeli, Amirreza Monzeli	Long-Term Exchange Rate Forecasting Using XGBoost: A Comparative Study of Major Floating Currencies and the Iranian Rial	11:45–11:55	11:55–12:00
177	Lohit Thakur, Man av Neog, Palash Dutta	Development and Comparative Analysis of Centrality and Closeness Centrality Measures in Hyperbolic Fuzzy Graphs	12:00–12:10	12:10–12:15
182	Osameh Pishdadi Koushali, Allahyar Sayyadi, Zohreh Ali Esmaeili	Developing a Model for Assessing and Predicting Construction Demolition Waste Quantities Using Building Information Modeling (BIM)	12:15–12:25	12:25–12:30
196	Muhammad Fuad Sardin, Kifayah Amar	A Hybrid Pareto-Ishikawa, AHP, and Fuzzy FMEA Framework for Broiler Processing Defects	12:30–12:40	12:40–12:45
239	Dristi Rajbonshi, Palash Dutta	Development of a Novel Distance Measure for Hyperbolic Fuzzy Sets and Its Application to Blockchain Technology Selection in the Logistics Industry	12:45–12:55	12:55–13:00
256	Homeira Saheli, Samira Saheli	Fuzzy and Hybrid Fuzzy-Artificial Intelligence Systems in Autoimmune Diseases: A Critical Synthesis of Computational Roles, Biomarkers, and Clinical Evidence (2015-2026)	13:00–13:10	13:10–13:15
257	Phi Hung Nguyen	Unpacking Competitive Advantage in Vietnamese Logistics SMEs: An Integrated PLS-SEM and fsQCA Approach to Hyperlocal Delivery Capability	13:15–13:25	13:25–13:30
258	Veysel Çoban	A Two-Stage MAGDM Approach Based on Quasi-Monte Carlo Simulation and Discrimination p,q-Rung Picture Linguistic TOPSIS for Electric Vehicle Battery Recycling Facility Site Selection	13:30–13:40	13:40–13:45
149	Shriya Srivastava, Pranav Tyagi	Silent Voice: A Camera-Only, Offline-First Gesture-to-Speech Aid with Expression-Aware Caregiver Feedback on Edge Hardware	13:45–13:55	13:55–14:00
84	M. Mohamed Althaf; M. Prabavathy	A Nonstandard Analysis Approach to Fixed Points of Generalized Strictly Fuzzy-Nonexpansive Mappings on Fuzzy-Bounded Orbits	14:00–14:10	14:10–14:15

Panel 04

ISFSEA 2026 | International track

JOIN PANEL ROOM 04

Recent Advances in Fuzzy Algebraic and Fuzzy Hypercompositional Algebra

Date	Panel Chair	Panel Manager	Time
Wednesday, 18 November 2026	Dr. Madeleine Al-Tahan	Dr. Poorahangaryan	11:30–15:00 UTC

11 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
72	Mohammadesmail Nikfar	Fuzzy Group Actions: Orbits, Stabilizers, and Applications to Cryptography	11:30–11:40	11:40–11:45
73	Mohammadesmail Nikfar	Vague Multigraphs	11:45–11:55	11:55–12:00
80	Ajoy Kanti Das, Ankita Datta	A Comprehensive Algebraic Study of Restricted Neutrosophic SuperHyper BCI-Algebra	12:00–12:10	12:10–12:15
108	Prashant Dwivedi	An Application to Laptop Selection Using Soft Subsets	12:15–12:25	12:25–12:30
112	Opoola Saheed Adeyemi, Adebisi Sunday Adesina	The Fuzzy Subgroups for Finite p Groups Classified: Formulating the Distinct Fuzzy Subgroups for the Generalized Quaternion Group and the Cyclic Group	12:30–12:40	12:40–12:45
146	Saranya Shanmugavel, Buvaneswari Rangasamy	Mathematical Exploration of Cost Optimization through Greedy Algorithm on Fuzzy Graphic matroids	12:45–12:55	12:55–13:00
166	Preema T S, Binu R	Injective r-Neutrosophic G-Submodules	13:00–13:10	13:10–13:15
170	R. Shanmugapriya, S. Divya	An Intuitionistic Anti-Fuzzy Algebraic Approach to Medical Data Classification and Analysis	13:15–13:25	13:25–13:30
219	Hayet Kaddachi	Environmental Technology, Policy Stringency and CO_2 Emissions in Germany: Preliminary ARDL Evidence	13:30–13:40	13:40–13:45
118	Y Geyasri, Chinmayee V, Vrinda M, Varshita Chauhan, Nandini K	StreetPaw AI: A Multi-Agent Software Architecture for Urban Stray Animal Monitoring, Visual Re-Identification, and Human-in-the-Loop Rescue Coordination	13:45–13:55	13:55–14:00
78	Anjaneyulu Naik Kalavath; Satyanarayana Bavanari	On Neutrosophic n-fold Positive Implicative Artinian and Positive Implicative Noetherian BCK-algebras	14:00–14:10	14:10–14:15

Panel 05

ISFSEA 2026 | International track

JOIN PANEL ROOM 05

Neutrosophic and Plithogenic Decision Making and Optimization

Date	Panel Chair	Panel Manager	Time
Wednesday, 18 November 2026	Dr. Nivetha Martin	Dr. Alimoradi	11:30–15:00 UTC

14 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
121	R. Priya, B. Kavitha, Giorgio Nordo, Nivetha Martin, S. A. Edalatpanah	Quantum-Inspired Fuzzy Cognitive Modelling of Socially Responsible Intelligent Digital Education Systems for Sustainable Learning	11:30–11:40	11:40–11:45
161	Rajkumar S, N. Ramila Gandhi, Nivetha Martin, Ali Sorourkhah, Giorgio Nordo, S. A. Edalatpanah	Quantum-Integrated Multi Criteria Decision Making with Phase Angle: A Case Study in Sustainable Supplier Selection	11:45–11:55	11:55–12:00
162	Rajkumar S, Nivetha Martin, Florentin Smarandache, Ali Sorourkhah, Said Broumi, S. A. Edalatpanah	Neutrosophic Markov Chain-Integrated MCDM Framework for Dynamic Sustainable Material Selection	12:00–12:10	12:10–12:15
163	Rajkumar S, Nivetha Martin, Seethalakshmi V, Gayathri R, Davron Aslonqulovich Juraev	Data-Driven Neutrosophic AHP for Personal-Care Product Criterion Prioritization through Sentiment Analysis	12:15–12:25	12:25–12:30
169	Bhavatharani A, Nivetha Martin, Kasimayan, Sasikala M, Florentin Smarandache, Ali Sorourkhah, Said Broumi	A Sustainable Neutrosophic Markov Chain Approach for Inventory Management under Demand and Replenishment Uncertain	12:30–12:40	12:40–12:45
171	Anthriyas Theeba, M. Kasimayan, Nivetha Martin, Murat Kirişci, Akbar Rezaie, Said Broumi	Sustainable Inventory Model with Omnichannel Distribution, Third-Party Logistics, Smart Picking System, Packaging Optimization, and Product Returns	12:45–12:55	12:55–13:00
172	P.Sathya, Angel, Sudha, Nivetha Martin, Akbar Rezaei, S. A. Edalpathnath	Plithogenic Contradiction-Based Multi- Criteria Decision-Making For Irrigation Planning Under Stochastic Criterion Weights	13:00–13:10	13:10–13:15
173	P. Sathya, Ramila Gandhi, Nivetha Martin, Ali Sorourkhah, Florentin Smaradache, Said Broumi	Comparative Analysis of Plithogenic Multi-Criteria Decision-Making Methods Integrated with Machine Learning Techniques	13:15–13:25	13:25–13:30
198	Bhuvaneswari Narayanan, Pandiammal P	An Eigen value Based Decision Framework Using Neutrosophic Fuzzy Graphs	13:30–13:40	13:40–13:45
228	Bhuvaneswari Narayanan, Pandiammal P	A Novel Uncertainty Sensitive Distance Model For Neutrosophic Fuzzy Networks	13:45–13:55	13:55–14:00
229	Karthiga Rani P, Pandiammal P	Neutrosophic M-group Structures for Modelling Uncertain Social Relationships: An Algebraic Framework and Its Applications to Social Network Analysis	14:00–14:10	14:10–14:15
241	Sundari JDS, P. PANDIAMMAL	A Plithogenic Fuzzy M-group Framework for Dynamic Network Reliability Analysis under Conflicting Information	14:15–14:25	14:25–14:30
246	Sundari JDS, P. PANDIAMMAL	A Dynamic Plithogenic Fuzzy M-Group Decision-Making Model with Time-Varying Contradiction for Sustainable Economic Development	14:30–14:40	14:40–14:45
238	Bhavatharani A, Nivetha Martin	A Carbon-Budget-Triggered Circular Markov Model for Sustainable Inventory Control	14:45–14:55	14:55–15:00

Panel 06

ISFSEA 2026 | International track

JOIN PANEL ROOM 06

Intelligent Decision-Making under Deep Uncertainty: Fuzzy Systems, Business Analytics, and Decision Intelligence for AI-Enabled and Sustainable Business (Part I)

Date	Panel Chair	Panel Manager	Time
Wednesday, 18 November 2026	Dr. Phi-Hung Nguyen	Dr. Faghihmaleki	11:30–15:00 UTC

14 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
153	DSK Chakravarthy, Jitendra Kumar Jain	New Notation or New Decision? Orthopair Robustness Certification and Audit (ORCA) of q-Rung Orthopair Fuzzy Multi-CriteriaDecisions	11:30–11:40	11:40–11:45
174	Sanaz Rivaz	Surely and Possibly LR-Efficient Solutions of Multiobjective Linear Programming Problems with Rough Interval Coefficients	11:45–11:55	11:55–12:00
181	Gholam Ali Montazer	A Computational Decision-Making Method for Ranking the Website Structures Using Interval Valued Fuzzy Notions	12:00–12:10	12:10–12:15
192	Tạ Duy Quý, Nguyễn Thị Ngọc Ánh, Nguyễn Thu Huyền, Nguyễn Hải Anh, Hoàng Vũ Ngọc Ánh, Đặng Văn Khánh	From Disruption Readiness to Firm Performance: Disentangling Necessary and Sufficient Conditions for Operational and Financial Performance Among Vietnamese Manufacturing Firms Under Exogenous Shocks	12:15–12:25	12:25–12:30
195	Lan-Anh Thi Nguyen, Phi-Hung Nguyen, Anh-Thu Huynh, The-Vu Pham, Trung-Hieu Nguyen	Mapping Digital Fraud Risks: A Proportional Spherical Fuzzy Delphi–DEMATEL Framework from Internal and IT Audit Perspectives	12:30–12:40	12:40–12:45
197	Phi-Hung Nguyen, Lan-Anh Thi Nguyen, Anh-Thu Huynh, The-Vu Pham, Trung-Hieu Nguyen	PHI-II: A bootstrap-validated bipolar complex linear diophantine fuzzy delphi framework for assessing factors affecting vietnamese lychee exports to china	12:45–12:55	12:55–13:00
199	Phi-Hung Nguyen, Lan-Anh Thi Nguyen, Anh-Thu Huynh, The-Vu Pham, Trung-Hieu Nguyen	A bootstrap-validated proportional spherical fuzzy mcdm framework for data quality-driven reporting reliability and strategy selection in retail	13:00–13:10	13:10–13:15
201	Phi-Hung Nguyen, Thuy- Trang Ngo, Thi- Le Ho, Mai- Phuong Thi Le	From Spend Analytics to Sustainable Procurement Decision Intelligence: A Fermatean Fuzzy Framework for AI-Enabled Strategic Sourcing	13:15–13:25	13:25–13:30
202	Duc-Thinh Nguyen, Tra-Giang Vu, Phi-Hung Nguyen	Evaluating And Ranking Barriers To Internal Digital Adoption In The Information Technology Sector: Fermatean Fuzzy DEMATEL Approach	13:30–13:40	13:40–13:45
213	Ariana Ulinnuha Zein, Qonita Qurratu Aini, Imam Mukhlash, Dian Winda Setyawati, Fatia Fatimah	Energy of q-Rung Orthopair Fuzzy Soft Sets for Multi-Criteria Decision-Making	13:45–13:55	13:55–14:00
235	Hossein Balouchi, Seyyed Ali Delbari, Ahmad Khojeh	Identifying and Prioritizing Strategic Barriers to Blockchain Technology Adoption in the Construction Industry Supply Chain: An Integrated Spherical Fuzzy Delphi and Fuzzy SWARA Approach	14:00–14:10	14:10–14:15
243	S. M. Subhapradha, P. John Robinson	An Intelligent CNN Framework for Weight Estimation and Ordered Aggregation in Intuitionistic Fuzzy MAGDM	14:15–14:25	14:25–14:30
247	Leonishiya A, Navin Raj C, John Robinson P	A Dual-Approach Framework for Linguistic Intuitionistic Fuzzy MAGDM Using Novel Correlation Coefficients and Artificial Neural Networks	14:30–14:40	14:40–14:45
224	Thi Thuong Kim, Duy Quy Ta, Ha Vi Pham, Viet Huy Mai, Quang Truong Nguyen	Does Brand Familiarity Foster Reconciliation? A Moderated Serial Mediation Analysis Linking Historical Brand Transgression Severity to Desire for Reconciliation among Vietnamese Consumers	14:45–14:55	14:55–15:00

Day 2 — Morning Keynotes & Closing

18–19 November 2026 | Online conference | All international sessions: UTC

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UTC time	Activity/Speaker	Speech Title
06:30–06:50	Keynote Speech: Prof. Witold Pedrycz	Data and Symbols: Algorithmic Developments of Neurosymbolic Machine Learning
06:50–07:00	Q&A by Prof. Witold Pedrycz	-
07:00–07:20	Keynote Speech: Prof. Oscar Castillo	Optimization of Type-2 and Higher Type of Fuzzy Systems for Applications
07:20–07:30	Q&A by Prof. Oscar Castillo	-
07:30–07:50	Keynote Speech: Prof. Saeid Jafari	RATL Logic: A Three-Valued Framework for Transparent and Auditable Reasoning
07:50–08:00	Q&A by Prof. Saeid Jafari	-
08:00	Start of Day 2 morning parallel panels	Panels P07–P09
15:00–15:30	Closing ceremony	Conference Organizing Committee

Panel 07

ISFSEA 2026 | International track

JOIN PANEL ROOM 07

Hybrid Intelligent Systems: Advances in Fuzzy and Rough Set Theory, Graph Theory, Optimization and Decision-Making

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Suriyapriya K	Ms. Najaf	08:00–11:00 UTC

12 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
126	Uma Darapu, Manas Kumar Yogi	Beyond Scalar Reputation: Hesitancy-Aware T-Spherical Fuzzy Trust for Federated Medical IoT	08:00–08:10	08:10–08:15
200	H. Movahedi, M. Asghari Larimi, R. Ameri	Algebraic Action Fuzzy Graphs: Weights,Quotients, and Spectral Invariants	08:15–08:25	08:25–08:30
203	Fridolin Immanuel L, S. Mohanaselvi	Cubic Linguistic T-Spherical Fuzzy Entropy and Cumulative Prospect Theory for Failure Mode Prioritization with Kendall Tau Group Consensus	08:30–08:40	08:40–08:45
205	Phi-Hung Nguyen, Duc-Minh Vu, Van-Khanh Nguyen, Tra-Giang Vu	Business and Government R&D in European Innovation Conversion Efficiency 2007-2024	08:45–08:55	08:55–09:00
207	Phi-Hung Nguyen, Lan-Anh Thi Nguyen, The-Vu Pham, Tra-Giang Vu	Advancing Global Maritime Logistics through Fleet Modernization - A Quantum Spherical Fuzzy MCDM Perspective	09:00–09:10	09:10–09:15
209	Phi-Hung Nguyen, Van- Khanh Nguyen, Khanh- Duong Nguyen, Hoang-Anh Nguyen	Beyond Market Attractiveness: Prioritising International Markets for Vietnam's Wooden Furniture Exports under Sustainability, Traceability, Geopolitical Risk and Supply-Chain Uncertainty	09:15–09:25	09:25–09:30
210	Phi-Hung Nguyen, Huong- Giang Hoang Le, Thanh- Thao Nguyen Thi	Horizontal Logistics Collaboration through E-Hailing Taxi Systems for Integrated Passenger and Package Transportation: A case study in Vietnam	09:30–09:40	09:40–09:45
212	Phi-Hung Nguyen, Van- Khanh Nguyen, Thanh- Thao Nguyen Thi	Toward Hybrid Decision Intelligence: Integrating Machine Learning, Explainable AI, and Configurational Analysis for Complex Business Decision-Making	09:45–09:55	09:55–10:00
231	Sathya Arumugam, Bhoomiben Dilipbhai Patel	An Improved Kernel-Embedded Fuzzy Equivalence Relation-Based Clustering Framework for Breast Cancer Data Analysis	10:00–10:10	10:10–10:15
249	Le Huong Giang Hoang, Phi-Hung Nguyen, Ha-Anh Vu, Hong-Son Dao, Dieu-Vi Thi Dao, Dang-Duong Pham	Efficiency Recovery without Sustained Productivity Growth? A DEA–Malmquist Investigation of Vietnamese Listed Firms, 2018–2024	10:15–10:25	10:25–10:30
251	Archana Kumari Prasad, Samajh Singh Thakur	Tangent Distance Measure for (m,a,n)-Fuzzy Neutrosophic Setsand its Applications to Pattern Recognition	10:30–10:40	10:40–10:45
252	Monika Udasi, Archana Kumari Prasad	Sine Distance Measure for (m,a,n)-FuzzyNeutrosophic Sets and Their Applications to PatternRecognition	10:45–10:55	10:55–11:00

Panel 08

ISFSEA 2026 | International track

JOIN PANEL ROOM 08

Fuzzy Sustainability, Energy and Smart Infrastructure

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Gnana Chandra	Ms. Kazemi	08:00–11:00 UTC

10 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
61	Dinesh kansal	Knowledge Measure-Based Hybrid TOPSIS-VIKOR Approach forMaterial Selection Under Interval-Valued Neutrosophic Environment	08:00–08:10	08:10–08:15
66	Azadeh Alavi, Muhammad Noman Shafique	An AI-Informed Fuzzy Decision-Support Framework Linking Material Recovery and Residual-Waste Energy Assessment	08:15–08:25	08:25–08:30
127	Le Hoang Giang, Dao Thi Lan Anh	Crisp versus Fuzzy Multi-Criteria Decision-Making in Renewable Energy Site Selection: A Comparative Critical Review	08:30–08:40	08:40–08:45
136	mehtap dursun	Evaluating Renewable Energy Investment Criteria Using a Fuzzy DEMATEL Approach	08:45–08:55	08:55–09:00
138	Nguyen Minh Vu, Nguyen Linh Chi, Nguyen Diem Quynh, Nguyen Khanh Linh, Le Hoang Giang	Fuzzy MCDM for Circular End-of-Life Decisions in Renewable Energy Systems: A Comparative Critical Review	09:00–09:10	09:10–09:15
159	Mohammad Hossein Darvish Motevalli, Persia, Azizedin	An Examination of Employees' Attitudes Toward Artificial Intelligence and Its Impact on Sustainable Development Goals and the Non-Financial Performance of Companies Listed on the Tehran Stock Exchange	09:15–09:25	09:25–09:30
222	Amir Mohammad Khodaei	Intelligent Energy Management and Voltage/Frequency Stability in Urban Microgrids with Fuzzy Control	09:30–09:40	09:40–09:45
233	Aliasghar Sadeghi, Iman Mehrabi	Fuzzy Logic for Smart Urban Water Management: A Structured Review of Demand Forecasting, Network Operation, and Anomaly Detection	09:45–09:55	09:55–10:00
248	Tamilarasi W	Predictive Modeling and MCDM Analysis of Polycyclic Aromatic Hydrocarbons Using Fuzzy Topological Indices	10:00–10:10	10:10–10:15
116	Imoh Ime Ekanem, Aniekan Essienubong Ikpe, Michael Okon Bassey	Experimental Study on Activated Carbon and Zeolite Sorbents for Low-Cost Carbon Capture	10:15–10:25	10:25–10:30

Panel 09

ISFSEA 2026 | International track

JOIN PANEL ROOM 09

Fuzzy Applications in Healthcare, Education and Emerging Intelligent Systems

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Kshitish Kumar Mohanta	Dr. Najati	08:00–11:00 UTC

12 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
64	Marco A. Márquez-Vera, Zaineb Yakoub, M. Angélica Cano-Figueroa, Julio C. Salgado Ramírez	A Unified Inverse Fuzzy Modeling Framework for Control and Fault Diagnosis	08:00–08:10	08:10–08:15
65	Brajamohan Sahoo	Optimal Hospital Selection for Patient Treatment Using a Fuzzy Decision-Making Approach	08:15–08:25	08:25–08:30
77	K. Senbaga Priya, N. Selva Nandhini	A Spectral Fuzzy Graph-Based MCDM Framework for IdentifyingKey Proteins in Autoimmune Disease Networks	08:30–08:40	08:40–08:45
117	Muntaha, Purkha, Tabasam Rashid, Muhammad Tanveer Hussain	Fuzzy Based Modeling for Bone Marrow Matching Using Cartesianand Composition Infuence Products	08:45–08:55	08:55–09:00
119	Mojtaba Nasehi	A Q-Rung Orthopair Fuzzy Multi-Criteria Decision-Making Framework for Prioritizing Public Health Crisis Preparedness and National Health Resilience	09:00–09:10	09:10–09:15
131	Roohallah Yousefi	Integrating Fuzzy Set Theory, Artificial Neural Networks, and Artificial Intelligence: Theoretical Foundations, Hybrid Architectures, Practical Applications, and Future Research Directions	09:15–09:25	09:25–09:30
133	Hayet Soltani, Mouna Boujelbène Abbes	Sectoral Heterogeneity in the Transmission of Chinese Financial Stress: A TVP-VAR Connectedness Analysis	09:30–09:40	09:40–09:45
145	Idris Muhammadu Adamu	Distances between Complex Intuitionistic Fuzzy Multisets with Applications to Medical Diagnosis	09:45–09:55	09:55–10:00
148	Omid Bashardoust	Fit of Emerging Fuzzy Methods for Complex Systems Simulation, 2020–2026: An Analytical–Comparative Study and the FSIM Selection Framework)	10:00–10:10	10:10–10:15
152	Halim Smii	Do Overconfident Managers Invest More? A Dynamic Panel Analysis of Tunisian Listed Firms	10:15–10:25	10:25–10:30
178	Antony Raj A, S. John Borg, T. Sathinathan	Fuzzy Hyers–Ulam stability of a three-variable additive functional equation of Jensen type	10:30–10:40	10:40–10:45
114	Devender Kumar, Shalu Duggal, Pooja Rana, Saikat Gochait	Privacy-Preserving Federated Deep Reinforcement Learning for Resource Slicing in 5G/B5G IoTNetworks	10:45–10:55	10:55–11:00

Panel 10

ISFSEA 2026 | International track

JOIN PANEL ROOM 10

Beyond Classical Fuzzy Sets: Structures, Generalizations and Applications

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Mamoni Dhar	Ms. Ghasemabadi	11:30–15:00 UTC

11 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
70	J Ravinder, A. Bernick Raj, C. D. Nandakumar	A New Framework for Generating Fuzzy Metrics by Indistinguishability Operator, Generated Conjunctor and Perceptual Distance Function	11:30–11:40	11:40–11:45
75	esma mustafa	Quantum Phase Membership Functions: A New Extension of Fuzzy Sets for Explainable Neuro-Fuzzy Systems	11:45–11:55	11:55–12:00
115	N. Vijayaraghavan, N. Jansirani, V. R. Dare	Pythagorean Picture Fuzzy Subgroup: An Introduction	12:00–12:10	12:10–12:15
139	Shailendra Singh, S.P. Tiwari	Factorization of fuzzy sets and fuzzy automata	12:15–12:25	12:25–12:30
150	Uma Maherswari Thathappagaari, Kaspar S	Threshold Stability of Attribute Reducts in Neutrosophic Formal Contexts	12:30–12:40	12:40–12:45
180	Sami Ekici, Resul Coteli, Murat Uyar	Interval Type-3 Fuzzy Logic Control of a Single-Phase Boost PowerFactor Correction Converter	12:45–12:55	12:55–13:00
185	Sami Ekici, Resul Coteli, Murat Uyar	Speed Control of a DC Motor Using an Interval Type-3 Fuzzy Logic Controller Under Parameter Uncertainties and Load Disturbances	13:00–13:10	13:10–13:15
206	R. Sheela, P.Pushpa	An Explainable Hybrid Machine Learning and Interval Type-2 Fuzzy MCDM Framework for Uncertainty-Aware Cardiovascular Risk Stratification	13:15–13:25	13:25–13:30
230	Vinoth S, Maria Roy Felix J	Fuzzy Molecular Modeling and Structural Analysis of Selected Anti-Inflammatory Drugs Using the First Zagreb Index	13:30–13:40	13:40–13:45
244	Karpaha Chandrasekar, John Robinson Peter Dawson	An Unsupervised Quantum Neural Network Framework with Intuitionistic Fuzzy Aggregation for MAGDM	13:45–13:55	13:55–14:00
255	Mary Pauly K, Suriyapriya K, Nayana P G	New Class of q-Rung Orthopair Trapezoidal Intuitionistic Fuzzy Sets with Similarity-based TOPSIS for Multi-Criteria Decision-Making	14:00–14:10	14:10–14:15

Panel 11

ISFSEA 2026 | International track

JOIN PANEL ROOM 11

Intelligent Decision-Making under Deep Uncertainty: Fuzzy Systems, Business Analytics, and Decision Intelligence for AI-Enabled and Sustainable Business (Part II)

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Phi-Hung Nguyen	Ms. Joorbonyan	11:30–15:00 UTC

14 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
135	Omid Bashardoust	A Focused Systematic Review of Fuzzy Logic Integration in Data Mining for Customer Relationship Management: Techniques, Applications, and Governance-Oriented Research Directions (2015–2026)	11:30–11:40	11:40–11:45
143	Dinh-Hieu Tran, Phi-Hung Nguyen	Iterative approach with mathematical model in solving two-dimensional open-dimension rectangular packing problem	11:45–11:55	11:55–12:00
144	Supriya K	Short-Term Plant Growth Modeling: A Fuzzy Cognitive Mapping Approach for 90-Days Crop Development Dynamics	12:00–12:10	12:10–12:15
179	N. Narasimhan, D. Piriadarshani	Fuzzy Matrix-Geometric Analysis of a Two-Server Queue with Disasters and Repair in a Multi-Phase Random Environment	12:15–12:25	12:25–12:30
187	Bilel Souissi	From SHAP Importance to Fuzzy Ranking: A Data-Driven Weighting Pipeline for Assessing Energy Transition in Africa	12:30–12:40	12:40–12:45
189	Jung-Fa Tsai, Phi-Hung Nguyen, Dinh-Hieu, Tran	Robust optimization for forward-reverse logistics network design under product quantity uncertainty	12:45–12:55	12:55–13:00
194	ung-Fa Tsai, Hong-Anh Thi Pham, Phi-Hung Nguyen, Lan-Anh Thi Nguyen	Analyzing the causal relationships among barriers to Net Zero transition in Vietnamese hospitality enterprises: A Fermatean Fuzzy DEMATEL approach	13:00–13:10	13:10–13:15
211	N.Senthilkumar, P.John Robinson, C.Karpaha	Evolution of a Novel Intuitionistic Fuzzy Aggregation and Neural Network Model for an Intelligent Decision Support System	13:15–13:25	13:25–13:30
215	Backialakshmi P, Jagatheeshwaran K, John Robinson P	From Graph Embedding to Intelligent Decision Making: A Petersen Graph-Based Criterion Weighting Framework for Intuitionistic Fuzzy MAGDM with ANN Integration	13:30–13:40	13:40–13:45
225	Raksheetha Priya E, John Robinson P, Harishree A	The Complemented Linguistic Intuitionistic Fuzzy MAGDM with Artificial Neural Network Support System	13:45–13:55	13:55–14:00
240	Jahir Uddin Laskar, Juthika Mahanta	Prioritizing low-carbon sustainable suppliers in the maritime sector using an Intuitionistic fuzzy similarity measure-driven approach	14:00–14:10	14:10–14:15
245	Phan Duong Kim Tu, Hoang Le Huong Giang, Truong Hoai Thuong, Ngoc Diep Le, Khuat Thi Hong Anh	Beyond Net Effects: An Integrated PLS-SEM and fsQCA Analysis of Digital Payment Adoption among Vietnamese Handicraft Exporters	14:15–14:25	14:25–14:30
253	Huong- Giang Hoang Le, Thanh-Thao Nguyen Thi	Organizational Readiness for Agentic AI: Identifying Critical Capabilities and Their Causal Interdependencies through Fuzzy De	14:30–14:40	14:40–14:45
155	Hichem Ghnimi	Green innovation and carbon-emissions performance: evidence from United Kingdom firms	14:45–14:55	14:55–15:00

Panel 12

ISFSEA 2026 | International track

JOIN PANEL ROOM 12

Fuzzy Optimization, Industrial Control and Operations Research

Date	Panel Chair	Panel Manager	Time
Thursday, 19 November 2026	Dr. Sapan Kumar Das	Ms. Parandavar	11:30–15:00 UTC

10 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
62	Chukwudi Obinna Nwokoro, Paul Augustine Ejegwa, Nasreen Kausar	A Reliability-Calibrated Picture Fuzzy Evidence-Fusion Framework for Diphtheria Outbreak Prioritisation in Nigeria	11:30–11:40	11:40–11:45
63	Hooman Shababi	A Fuzzy Dynamic Optimization Framework for National R&D Policy: Stability Analysis and Long-Term Innovation Outcomes	11:45–11:55	11:55–12:00
104	Mahmoud A. Nasef, Marwa E. Abo El-Hassan, Arafa A. Nasef	Fuzzy Logic and PID-Controllers with Applications	12:00–12:10	12:10–12:15
110	Abhishek Chauhan	Novel Intuitionistic Fuzzy gamma-operator Technique for Multi-objective Optimization Problems with Z-numbers	12:15–12:25	12:25–12:30
140	M. VELAN, M. Mohamed Althaf, C. Gurubaran, A. Prasanna, A. Mohamed Asfar	New Fixed Point Results for Generalised Interpolative Contractions in Fuzzy b-Metric Spaces	12:30–12:40	12:40–12:45
142	İlker Ergüven, Mehtap Dursun	Supplier Selection in Automotive Manufacturing Using Fuzzy TOPSIS Method	12:45–12:55	12:55–13:00
217	Fazel Hajizadeh, Atiye Hosseinnezhad	Risk–Makespan Trade-offs in Large-Scale Reentrant Job-Shop Scheduling with Fuzzy-Informed Triangular Processing-Time Scenarios	13:00–13:10	13:10–13:15
236	Mahsa Sadeghi, Ali Asghar Talebi	Fuzzy Temperature Descriptors: Spectral Stability and Applications to Antidepressant Molecules	13:15–13:25	13:25–13:30
259	Phi Hung Nguyen	Barriers to Logistics Decarbonization in Vietnam's Strategic Logistics Corridors: A T-spherical Fuzzy Screening–DEMATEL Analysis	13:30–13:40	13:40–13:45
111	Ayush Argulwar, Api Moon, Gaza Sadaf Ansari, Anshul Singi, Shital Sabale	Android Timer Based Phone Silencer App	13:45–13:55	13:55–14:00

Panel 13

ISFSEA 2026 | Persian-language track

JOIN PANEL ROOM 13

Advances in Fuzzy Modeling, Intelligent Control, Optimization, and Sustainable Engineering Applications

Date	Panel chair	Panel manager / host	Time
Thursday, 19 November 2026	Dr. Rivaz	Dr. Shokrollahi	09:00–12:00 Iran

11 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
69	ایمان مهرابی و همکاران	Fuzzy Explainable AI for Electric Vehicle Charging Management: A Critical Review	05:30–05:40	05:40–05:45
70	صادقی و همکاران	Fuzzy Logic for Smart Urban Water Management: A Structured Review of Demand Forecasting, Network Operation, and Anomaly Detection (2010–2025)	05:45–05:55	05:55–06:00
72	امیرنیا	Some Properties of Fuzzy Differential Equations	06:00–06:10	06:10–06:15
73	ابوالقاسمیان	An Intuitionistic Fuzzy Set-Based Metaheuristic for Multi-Objective Optimization	06:15–06:25	06:25–06:30
74	بهنام طلائی	On homomorphisms of intuitionistic Fuzzy Modules	06:30–06:40	06:40–06:45
78	امیرمحمد خدائی	Intelligent Energy Management and Voltage/Frequency Stability in Urban Microgrids with Fuzzy Control	06:45–06:55	06:55–07:00
80	فاطمه علیدوستی و همکاران	Managing Uncertainty in Security Technical Debt Detection Through Evidence-Based Triage	07:00–07:10	07:10–07:15
82	ریحانه صنائی	Fuzzy Logic and Explainable Artificial Intelligence in Intelligent Transportation Systems: A Critical Review of Applications and Integrated Research Directions (2015–2026)	07:15–07:25	07:25–07:30
83	شهرزاد صداقت و همکاران	Design and Implementation of a Six-Input Mamdani Fuzzy Control System for an Intelligent Vacuum Cleaner	07:30–07:40	07:40–07:45
84	سید مجتبی متین‌خواه و نوید آزادفر	A Fuzzy Rule-Based Nonlinear Membership Function Approach for Energy-Efficient Clustering in Wireless Sensor Networks	07:45–07:55	07:55–08:00
85	سید علیرضا موسوی‌زاده و همکاران	System for Corrective Action Guidance in Injection Molding: A Multi-Workshop Field Evaluation	08:00–08:10	08:10–08:15

Panel 14

ISFSEA 2026 | Persian-language track

JOIN PANEL ROOM 14

Emerging Applications of Fuzzy Logic and Uncertainty Modeling in Intelligent Control, Healthcare, and Sustainable Development

کاربردهای نوین منطق فازی و مدل‌سازی عدم قطعیت در کنترل هوشمند، سلامت و توسعه پایدار

Date	Panel chair	Panel manager / host	Time
Thursday, 19 November 2026	Dr. Abdolmaleki	Dr. Zeinali	14:00–17:00 Iran

5 papers • 10-min presentation + 5-min Q&A per paper • Paper sequence follows internal panel register

Code	Author(s)	Paper title	Presentation (UTC)	Q&A (UTC)
75	فائزه نجاتی و خدیجه قاضیانی	ارزیابی تأثیر فناوری‌های نوین تأمین انرژی بر مدیریت پروژه‌های ساختمانی و ارائه راهکارهای توسعه پایدار در ایران	10:30–10:40	10:40–10:45
76	طیبه حقیری	پوش‌های تضمین‌شده در سطح‌های آلفا برای دستگاه‌های خطی فازی: چارچوبی مبتنی بر عملگر کروزیک	10:45–10:55	10:55–11:00
77	سید محمدرضا سیدنورانی و همکاران	کاربست سیستم‌های استنتاج فازی کسری در کنترل ارتفاع کوادروتور	11:00–11:10	11:10–11:15
81	سید محمدرضا سیدنورانی و همکاران	عدم قطعیت فازی ناشی از کنترل ارتفاع در کنترل بهینه کوادروتور: رویکردی مبتنی بر مشتق‌پذیری گرانولار	11:15–11:25	11:25–11:30
86	امیر مسعود نخعی و مهدی رادفر	روش‌های مبتنی بر منطق فازی برای شناسایی و طبقه‌بندی بیماری عروق کرونر: یک مرور دامنه‌ای	11:30–11:40	11:40–11:45