FMAS2026 and ICFEM2026

Leonardo Royal Southampton Grand Harbour Hotel
Southampton, UK

November 17–20, 2026

Tuesday, November 17, 2026		
08:45-09:00	*Arrival*	Mezzanine Lounge, Leonardo Royal Hotel
09:00-10:30	**FMAS2026 Session 1**: Neurosymbolic AI	*Chair: Matt Luckcuck* Bradford Suite, Leonardo Royal Hotel
09:00-09:15	Opening	
09:15-10:15	*Keynote*: Formal Methods for Robust Autonomy: Uncertainty Is Inevitable	Nils Jansen
10:15-10:30	From Constraints to Causality: Petri net Encodings for Explaining Binary Neural Network Inference	Alex Chan, Mohamed Tarraf, Alex Yakovlev and Rishad Shafik
10:30-11:00	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
11:00-12:30	**FMAS2026 Session 2**: Algorithms and Controller Validation and Verification	*Chair: Alex Chan* Bradford Suite, Leonardo Royal Hotel
11:00-11:20	SkiNet-Sim: Simulating Petri Nets with Data for the Verification and Validation of Controllers for Autonomous Systems (Online)	Baptiste Pelletier and Karen Godary
11:20-11:40	Plenty to FRET About: From Hazard Analysis to Formal Requirements for Robot-Assisted Dressing	Gunjari Chakraborty, Yasmin Rafiq, Hazel Taylor and Marie Farrell
11:40-11:55	Runtime Verification under Split Past and Future (Online)	Doğan Ulus
11:55-12:15	Formal Analysis of a Fault-Tolerant Extension of the ROSACE Flight Controller (Online)	Marco Bozzano, Alessandro Cimatti, Moussa Fall and Stefano Tonetta
12:15-12:30	Session Discussion	
12:30-14:00	*Lunch*	Restaurant, Leonardo Royal Hotel
14:00-16:00	**FMAS2026 Session 3**: Tools and Benchmarks	*Chair: Yasmin Rafiq* Bradford Suite, Leonardo Royal Hotel
14:00-14:45	*Keynote*: Reading Between The Lines of Code	Elizabeth Polgreen
14:45-15:05	RyBench: Runtime Verification Benchmarking Framework over Publish/Subscribe Networks	Mehmet Hilmi Dündar and Doğan Ulus

Continued on next page

15:05-15:25	BehaVerify: A Formal Verification Tool for Behavior Trees (Online)	Serena Serbinowska, Ben Wooding, Diego Manzanas Lopez, Luke Nam, Anne M. Tumlin, Nicholas Potteiger, Hongchao Zhang and Taylor T Johnson
15:25-15:45	Symbolic Abstraction Refinement (Online)	Daniel Bryce, David Musliner, Robert Goldman, Jeremy Gottlieb and John Skovbekk
15:45-16:00	Session Discussion	
16:00-16:30	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
16:30-18:00	**FMAS2026 Session 4**: From Explanations to Discussions	*Chair: Akhila Bairy* Bradford Suite, Leonardo Royal Hotel
16:30-16:45	Let's Talk This Out: Towards Explanation-based Distributed Goal Satisfaction	Anton Reinecke and Sibylle Schupp
16:45-18:00	Session Discussion	

Wednesday, November 18, 2026		
08:45-09:00	*Arrival*	Mezzanine Lounge, Leonardo Royal Hotel
09:00-10:30	**FMAS2026 and ICFEM2026 Joined Session 1**: Knowledge, Belief and Monitoring	*Chair: Michael Butler* Bradford Suite, Leonardo Royal Hotel
09:00-10:00	*FMAS2026+ICFEM2026 Invited Talk*: Lying with Truths: From Multi-Agent Belief Manipulation to Grounded Continuation	Xiaowei Huang
10:00-10:30	ROSMonitoring in Action: Runtime Monitoring and Enforcement for ROS 2 Actions	Giacomo Paltrinieri and Angelo Ferrando
10:30-11:00	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
11:00-13:00	**FMAS2026 and ICFEM2026 Joined Session 2**: Application Domains	*Chair: Matt Luckcuck* Bradford Suite, Leonardo Royal Hotel
11:00-11:15	From Attack Tree to Model Checker: Binding CAPEC Patterns to Verify Robotic System Security	Juel Hussain, Marie Farrell, Louise Dennis and Clare Dixon
11:15-11:40	No Need to Stop the Fleet: Localized Anomaly Isolation via Dead Zones in AGV Fleets	Natalia Ogorelysheva, Falk Howar and Jian-Jia Chen
11:40-12:10	Designing Shields for Safe Reinforcement Learning and Application to Autonomous Driving	Ana Gomez Ruiz, Thao Dang and Alexandre Donzé
12:10-12:40	FM For All	Stefan Hallerstede
12:40-13:00	FMAS Closing	
13:00-14:00	*Lunch*	Restaurant, Leonardo Royal Hotel
14:00-16:00	**ICFEM2026 Session 1**: Neural Network Verification	*Chair: Asieh Salehi Fathibadi* Bradford Suite, Leonardo Royal Hotel
14:00-15:00	*ICFEM2026 Invited Talk*: Specification is All You Need	Ekaterina Komendantskaya

Continued on next page

15:00-15:30	Are Safety Guarantees in Neural Networks Safe? How to Compute Trustworthy Robustness Certifications	Merkouris Papamichail, Konstantinos Varsos, Giorgos Flouris and Joao Marques-Silva
15:30-16:00	Interval-based Verification of Neural Networks: Formally Verified!	Achim D. Brucker and Amy Stell
16:00-16:30	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
16:30-18:00	**ICFEM2026 Session 2**: Timed Verification	*Chair: Yamine Aït-Ameur* Bradford Suite, Leonardo Royal Hotel
16:30-17:00	Correct-by-Construction Design of Timed Systems in Event-B	Guillaume Dupont and Jun Sun
17:00-17:30	Parametric Timed Automata to Handle Timing in Event-B	Gibris Gweugna, Frédéric Mallet and Laure Petrucci
17:30-18:00	Formalisation of Event-B rewriting rules and their Lambdapi translation	Anne Grieu and Jean-Paul Bodeveix
18:00-19:00	*Drink Reception*	Allerton's Lounge, Leonardo Royal Hotel

Thursday, November 19, 2026		
08:45-09:00	*Arrival*	Mezzanine Lounge, Leonardo Royal Hotel
09:00-10:30	**ICFEM2026 Session 3**: Large Language Models 1	*Chair: Son Hoang* Bradford Suite, Leonardo Royal Hotel
09:00-10:00	*ICFEM2026 Invited Talk*: Formal is Fast: Cryptographic code in the age of AI	Rod Chapman
10:00-10:30	Causal Past Logic for Runtime Verification of Distributed LLM Agent Workflows	Benedikt Bollig
10:30-11:00	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
11:00-13:00	**ICFEM2026 Session 4**: Large Language Models 2	*Chair: Benedikt Bollig* Bradford Suite, Leonardo Royal Hotel
11:00-11:30	CONTEXT4INV: LLM-Based Loop Invariant Generation via Context Strengthening	Yuyang Liu, Ruixuan Miao, Haoxiang Zhang, Xu Lu, Bin Yu and Yaocheng Li
11:30-12:00	Inferring Formal System Properties from Execution Traces with LLM-Seeded AST Genetic Algorithms	Simone Michelotti and Angelo Ferrando
12:00-12:30	DSDL Design and Reliable Instance Generation for Tactical Data Links	Shuaijun Qu, Xiaobing Wang, Haotian Liu, Xiaoyue Li, Zhi Ma, Qiang Chen and Qiang Wang
12:30-12:45	ICFEM2026 Summary	Son Hoang
12:45-13:00	Introducing ICFEM2027	Toshiaki Aoki
13:00-14:00	*Lunch*	Restaurant, Leonardo Royal Hotel
14:00-15:00	**ICFEM2026 Session 5**: Formal Validation and Verification 1	*Chair: Stefan Hallerstede* Bradford Suite, Leonardo Royal Hotel
14:00-14:30	TBFVV: Testing-Based Formal Validation and Verification	Shaoying Liu, Ai Liu and Yang Liu
14:30-15:00	Three-Layered Proof Architecture in VerusSync: A Case Study on BBQueue	Takamitsu Yoshii, Sinai Kakishita, Akira Hasegawa and Toshiaki Aoki
15:00-17:00	*Excursion*	Solent Sky Museum
17:00-17:30	*Walk to Harbour Hotel*	
17:30-21:00	*Conference Dinner*	The Needles 2,3&4, Harbour Hotel

Continued on next page

Friday, November 20, 2026		
08:45-09:00	*Arrival*	Mezzanine Lounge, Leonardo Royal Hotel
09:00-10:30	**ICFEM2026 Session 5**: Verification and Applications 1	*Chair: Étienne André* Bradford Suite, Leonardo Royal Hotel
09:00-10:00	*ICFEM2026 Invited Talk*: Proving correctness of distributed algorithms thanks to parameterized verification	Nathalie Bertrand
10:00-10:30	Using the wide expressiveness of partial observability to decide security criterions in timed automata	Anthony Spriet, Olivier Roux and Didier Lime
10:30-11:00	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
11:00-12:30	**ICFEM2026 Session 6**: Event-B and Applications	*Chair: Didier Lime* Bradford Suite, Leonardo Royal Hotel
11:00-11:30	Extending B, Event-B and ProB for Floats and Reals	Michael Leuschel
11:30-12:00	Optimizing Moving Block Systems by Using Event-B and Risk-based Flank Protection	Felix Schaber, Atif Mashkoor and Michael Leuschel
12:00-12:30	Formal Derivation of Behaviour-Tree Based System Specification from Goals in Event-B	Manon Lecart and Elena Troubitsyna
12:30-14:00	*Lunch*	Restaurant, Leonardo Royal Hotel
14:00-15:30	**ICFEM2026 Session 7**: Formal Validation and Verification 2	*Chair: Michael Leuschel* Bradford Suite, Leonardo Royal Hotel
14:00-14:30	Causal-Aware Partial-Order Reduction for Actor Models (online)	Zeinab Hosseini, Fatemeh Ghassemi and Hossein Hojjat
14:30-15:00	Transaction-Guided Parameterized Model-Checking in Cubicle	Hector Suzanne and Sylvain Conchon
15:00-15:30	QCheck: A Framework for Probabilistic Model Checking of Quantum Programs	Canh Minh Do and Kazuhiro Ogata
15:30-16:00	*Coffee Break*	Mezzanine Lounge, Leonardo Royal Hotel
16:00-17:30	**ICFEM2026 Session 8**: Verification and Applications 2	*Chair: Reza Rezazadeh* Bradford Suite, Leonardo Royal Hotel
16:00-16:30	Dynamic Analysis of Implicit Flow through Cross-Path Control-Flow Taint Aggregation	Falk Howar, Malte Mues and Richard Stewing
16:30-17:00	Formally verifying convergence of the gradient descent method for quadratic convex functions at code level	Umut Ufku Kurnaz, Pierre-Loïc Garoche, Dany Abou Jaoude and Pedro Simplicio
17:00-17:30	Signature modeling of packers using ASTDs	Guillaume Bonfante, Chaymae El Jabri, Marc Frappier, Hugo Lamoureux, Fabrice Sabatier and Pierre-Martin Tardif