ICFEM 2025 Program (Hangzhou, GMT+8)

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	Day 0 - November 10, 2025		
8:30 - 17:30	Registration		
9:00 - 12:00	Tutorial by Prof. Thiagarajan Pazhamaneri Subramanian		
	Day 1 - November 11, 2025		
8:30 - 9:00	Registration & Welcome Coffee		
9:00 - 10:00	Opening Keynote 1 by Prof. Jifeng He		
10:00 - 10:30	Coffee Break		
	Session 1: Formal Verification of Security and Cryptographic Protocols		
	Chair: TBD		
	[3] Formal Verification of Physical Layer Security Protocols for Next-Generation Communication Networks Kangfeng Ye, Roberto Metere, Jim Woodcock and Poonam Yadav		
	[28] Formal Construction of Threat Detections from Attack Trees		
10:30 - 12:30	Dumitru Bogdan Prelipcean, Catalin Dima and Daniele Varacca		
	[37] ZK-ProVer: Proving Programming Verification in Non-Interactive Zero-Knowledge Proofs		
	Haoyu Wei, Jingyu Ke, Ruibang Liu and Guoqiang Li		
	[45] Formal Modeling and Verification of Blockchain Consensus Protocols: A Case Study on ChainMaker		
	Minfan Xu, Shuo Zhou, Xian Xu and Huan Long		
12:30 - 14:00	Lunch Break		
14:00 - 15:00	Keynote 2 by Prof. Jim Woodcock		
15:00 - 15:30	Coffee Break		
	Session 2: LLMs and Formal Methods		
	Chair: TBD		
	[4] Automata-Based Steering Method for Diverse Structured Generation of Large Language Models Xiaokun Luan, Zeming Wei, Yihao Zhang and Meng Sun		
15:30 - 17:30	[8] LLM-SYM: Integrating Symbolic Methods and Large Language Models for Automated Theorem Proving Yifan Wu, Yanhong Huang and Jianqi Shi		
	[11] Formalizing Requirements into Dafny Specifications with LLMs Yi-Han Lu, Xue-Yang Zhu, Wenhui Zhang and Rongjie Yan		
	[36] A Test-Driven Approach for Refining Use Case Descriptions of Software Requirements with LLMs Haibo Li, Lixiao Zheng and Qihang Cai		
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	Day 2 - November 12, 2025			
9:00 - 10:00	Keynote 3 by Mariëlle Stoelinga			
10:00 - 10:30	Coffee Break			
	Session 3: Runtime Verification, Control, and Robotics Chair: TBD [10] Neural-Symbolic System Control Adjustment Based on Runtime Verification			
10:30 - 12:00	Hongxu Zhu, Wanwei Liu and Ji Wang [9] Modeling and Analysis of Cyber-Physical Systems in the Hybrid pi-Calculus Using Extended Sequence Diagrams Xiong Xu, Jixiang Miao, Shuling Wang and Jean-Pierre Talpin			
	[65] Formal Modelling of Fault Tolerant Robotic Missions Elena Troubitsyna			
12:00 - 13:30	Lunch Break			
12.00 - 13.30	Session 4: Program Analysis and Software Reliability			
	Chair: TBD			
13:30 - 15:30	[18] Detecting Vector Container Errors in C++ Programs via Abstract Interpretation Liusiyu Liu, Chen Liqian, Fan Guangsheng, Yin Banghu, Huang Chun and Wang Ji [41] Synthesizing Loops from Linear Ranking Functions Rui-Juan Jing, Yaru Yuan, Yuxing Cai, Yi Li and Changbo Chen			
	[25] MetaLogicz Robustness Evaluation of Text-to-Image Models Using Logically Equivalent Prompts			
	Yifan Shen, Yangyang Shu, Hye-young Paik and Yulei Sui			
	[48]Model-based test case generation from UML sequence diagrams using extended fnite state machines			
	Yifan Shen, Yangyang Shu, Hye-young Paik and Yulei Sui			
15:30 - 16:00	Coffee Break			
	Session 5: SMT and Quantitative Verification			
	Chair: TBD			
	[60] Avoiding Larger Conflict Regions in CDCL-Style Methods for Solving SMT-NRA Xinpeng Ni, Tianyi Ding and Bican Xia			
16:00 - 17:45	[61] Formal Modeling of Reinforcement Learning Systems with SMT Tianyi Ding, Yuxin Lin and Meng Sun			
	[64] Towards High-Level SMT Program Modeling: Bounded Integers, Simplified Structs, and Metaprogramming Xiangyu Li			
	[56] Quantitative Verification for Temporal Properties of Massive Linear Systems			
	Qing Liu, Yuntao Li, Sung Woo Choi, Luan Viet Nguyen and Hoang-Dung Tran			
	Conference Banquet 🔯			
	Location: Jinxi Hotel			
18:30 - 19:00	Cocktail Reception			
19:00 - 20:00	Dinner Awarda Caramany			
	Awards Ceremony Best Paper Awards Presentation			
20:00 - 20:30	Recognition of Outstanding Contributions			
	Announcement of ICFEM 2026 Location and Dates			
20:30 - 21:00	Networking and Celebration			

Day 3 - November 13, 2025				
9:00 - 10:00	Keynote 4 by Yongwang Zhao			
10:00 - 10:30	00 - 10:30 Coffee Break			
10:30 - 12:30	Session 6: Logic, Automata, and Concurrent Systems			
	Chair: TBD			
	[22] BCCIC3: Batch Clause Construction Enhanced Generalization in IC3			
	Yi Chen, Liangze Yin, Xinyi Gong, Ji Wang and Ting Wang			
	[42] Modeling and Verifying Concurrent Reactive Systems Using Separation Logic			
	Huan Sun, David Sanán, Jun Sun and Wenhai Wang			
	[54] A Unified Method to Efficiently Verify Opacity of Discrete-Timed Automata			
	Julian Klein, Kuize Zhang and Sabine Glesner			
	[67] Specification and Verification of Multi-Clock Systems Using a Temporal Logic with Clock Constraints			
	Yuanrui Zhang, Frederic Mallet, Min Zhang and Zhiming Liu			
12:30 - 14:00	Lunch Break			
14:00 -15:30	West Lake Hiking Tour			

End

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Legends		Keynotes
		Invited Papers
		Regular Papers
		Doctoral Symposium Papers
		Journal First Papers