	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
8:30 - 10:00	Doctoral Symposium Session 1			**Note: Keynote Starts at 9 AM**	Workshops
	Engineering Software for Modular Formalisation and Verification of STV Algorithms (Milad K. Ghale)	**Openning**	**Keynote (Ian Hayes)**		
	Towards Building a Generic Vulnerability Detection Platform by Combining Scalable Attacking Surface Analysis and Directed Fuzzing (Xiaoning Du)	**Keynote (David Basin)**		**Keynote (Zhenjiang Hu)**	
	Formalising Performance Guarantees in Meta-Reinforcement Learning (Amanda Mahony)		**Session: Formal Methods** PAR: A Practicable Formal Method and Its Supporting Platform (Jinyun Xue, Yujun Zheng, Qimin Hu, Zhen You, Wuping Xie and Zhuo Cheng)		
10:00 - 10:30	Morning Tea				
10:30 - 12:00	Doctoral Symposium Session 2	Session: Verification	Session: Formal Models	Session: Logic & Semantics	Workshops
	Modeling and Verification of Component Connectors (Xiyue Zhang)	Deductive Verification of Hybrid Control Systems modeled in Simulink with KeYmaera X (Timm Liebrenz, Paula Herber and Sabine Glesner)	Behaviour-driven Formal Model Development (Colin Snook, Thai Son Hoang, Dana Dghaym, Michael Butler, Tomas Fischer, Rupert Schlick and Keming Wang)	Preserving Liveness Guarantees from Synchronous Communication to Asynchronous Unstructured Low-Level Languages (Nils Berg, Thomas Göthel, Sabine Glesner and Armin Danziger)	
	Model Based Testing of Cyber-Physical Systems (Teck Ping Khoo)	Verification of Strong Nash-equilibrium for Probabilistic BAR Systems (Dileepa Fernando, Naipeng Dong, Cyrille Jegourel and Jin Song Dong)	The Miles before Formal Methods - a Case Study on Modeling a Passenger Lift System (Teck Ping Khoo and Jun Sun)	Deriving Mode Logic for Autonomous Resilient Systems (Inna Vistbakka, Amin Majd and Elena Troubitsyna)	
	Service-Oriented Design and Verification of Hybrid Control Systems (Timm Liebrenz)	Model Checking of C++ Programs under the x86-TSO Memory Model (Vladimir Still and Jiri Barnat)	The Foul Adversary: Formal Models (Naipeng Dong and Tim Muller)	UTP Semantics for BigrTiMo (Wanling Xie, Huibiao Zhu and Shengchao Qin)	

12:00 - 13:30	Lunch				
13:30 - 15:00	Doctoral Symposium Session 3	Session: Theorem Proving	Special Session 1:	Special Session 2	Workshops
	Developing Reliable Component-based Softwares in Mediator (Yi Li)	A Framework for Interactive Verification of Architectural Design Patterns in Isabelle/HOL (Diego Marmsoler)	Scaling up Formal Engineering (Jim McCarthy, Brendan Mahony and Kylie Williams)	Machine Learning Approach to Automated Design Model Repair (Jing Sun)	
	Model Checking Nash-Equilibrium - Automatic Robustness Verification of Distributed Systems (Dileepa Fernando)	Formalization of Symplectic Geometry in HOL-Light (Guohui Wang, Yong Guan, Zhiping Shi, Qianying Zhang, Xiaojuan Li and Yongdong Li)	Security Analysis in the Real World (Cristina Cifuentes)	Heuristic Search Planning and Policy Synthesis with Multi-Objective Probabilistic LTL Constraints (Sylvie Thiebaux)	
	Analyzing Security and Privacy in Design and Implementation of Web Authentication Protocols (Kailong Wang)	Using Theorem Provers to Increase the Precision of Dependence Analysis for Information Flow Control (Bernhard Beckert, Simon Bischof, Mihai Herda, Michael Kirsten and Marko Kleine Büning)	Towards Trustworthy AI for Autonomous Systems (Hadrien Bride, Jin Song Dong, Zhe Hou, Brendan Mahony and Martin Oxenham)	Towards Dependable and Explainable Machine Learning Using Automated Reasoning (Hadrien Bride, Jie Dong, Jin Song Dong and Zhe Hou)	
15:00 – 15:30	Afternoon Tea				
15:30 – 17:00	Doctoral Symposium Session 4	Session: Network Systems	Session: Type Theory	Session: Refinement & Transition Systems	Workshops
	Combining Deep Learning and Probabilistic Model Checking in Sports Analytics (Kan Jiang)	Modeling and Verifying NDN Access Control Using CSP (Yuan Fei and Huibiao Zhu)	Strongly Typed Numerical Computations (Matthieu Martel)	Analysis on Strategies of Superposition Refinement of Event-B Specifications (Tsutomu Kobayashi and Fuyuki Ishikawa)	
	Security Analysis of Smart Home Implementations (Kulani Mahadewa)	The Power of Synchronisation: Formal Analysis of Power Consumption in Networks of Pulse-Coupled Oscillators (Paul Gainer, Sven Linker, Clare Dixon, Ullrich Hustadt and Michael Fisher)	Type Capabilities for Object-Oriented Programming Languages (Xi Wu, Yi Lu, Patrick Meiring, Ian Hayes and Larissa Meinicke)	Formalising Extended Finite State Machine Transition Merging (Michael Foster, Ramsay Taylor, Achim Brucker and John Derrick)	
	Principled Greybox Fuzzing (Yuekang Li)	CDGDroid: Android Malware Detection Based on Deep Learning using CFG and DFG (Zhiwu Xu, Kerong Ren, Shengchao Qin and Florin Craciun)	Capabilities: Effects for Free (Aaron Craig, Alex Potanin, Lindsay Groves and Jonathan Aldrich)	Checking Activity Transition Systems with Back Transitions against Assertions (Cunjing Ge, Jiwei Yan, Jun Yan and Jian Zhang)	

Time					
18:00 - 19:00		**Keynote (Tony Hoare)**			
19:00 - 21:00	SDLT Dinner		ICFEM Dinner **Note: Must arrive by 6 PM**		Workshop Dinner