Programme

	Sunday October 24th
	Workshop on Formal Methods in Outer Space
09:00-10:30	**Session 1: Runtime Verification** **Reverse Engineering through Automata Learning** Doron Peled **Runtime Verification: Passing on the Baton** Christian Colombo, Gordon Pace and Gerardo Schneider **A Context - Free Symbiosis of Runtime Verification & Automata Learning** Markus Frohme and Bernhard Steffen
	Coffee Break
11:00-12:00	**Session 2: Program analysis and Specification** **Domain Analysis & Description – Sorts, Types, Intents** Dines Bjorner **Refining the Safety-Liveness Classification of Temporal Properties According to Realizability** Manfred Broy
12:00-14:30	**Lunch**
14:30-16:00	**Session 3: Runtime Verification 2** **Hardware-Assisted Online Data Race Detection** Faustin Ahishakiye, Violet Ka I Pun, Jose Ignacio Requeno and Volker Stolz **Confidence Monitoring and Composition for Dynamic Assurance of Learning-Enabled Autonomous Systems** Ivan Ruchkin, Matthew Cleaveland, Oleg Sokolsky and Insup Lee. **Comparing two methods for checking runtime properties** (online presentation) Gerard Holzmann
16:00-16:30	**Coffee Break**
16:30-18:00	**Session 4: Design and Analysis** **Collision-Free 3D Flocking Using the Distributed Simplex Architecture** (online presentation) Scott Stoller, Radu Grosu, Scott Smolka, Usama Mehmood **Dynamic interval analysis by abstract interpretation** (online presentation) Patrick Cousot **The K Vision for the Future of Programming Language Design and Analysis** (online presentation) Xiaohong Chen and Grigore Rosu