

**Day 0: 3 August (Monday)**

8:00am -- 10:00pm

Video watching, and informal meetings

**Day 1: 4 August (Tuesday)**

08:00 -- 08:50am	Plenary Opening Session
08:50 -- 09:00am	Short Break
09:00 -- 09:50am	Parallel Sessions
09:50 -- 10:00am	Short Break
10:00 -- 10:50am Session 1 Topic: Autonomous Vehicles Session Chair: George Zhou	A Multi-Agent Systems Approach to Test Generation for Simulation-based Autonomous Vehicle Verification (Greg Chance, Abanoub Ghobrial, Severin Lemaignan, Tony Pipe and Kerstin Eder)
	Controlled time series generation for automotive software-in-the-loop testing using GANs (Dhasarathy Parthasarathy, Karl Bäckström, Jens Henriksson and Sólrún Einarsdóttir)
	Coverage based testing for V&V and Safety Assurance of Self-driving Autonomous Vehicles: A Systematic Literature Review (Zaid Tahir and Rob Alexander)
10:50 -- 11:00am	Short Break
11:00 -- 12:00am	Plenary Keynote 1: Themis Palpanas (BigDataServices)
12:00 -- 02:00pm	Long Break
02:00 -- 02:50pm Session Chair: Marc Roper	Plenary Keynote 2: Kerstin Eder (AITest)
02:50 -- 03:00pm	Short Break
03:00 -- 03:50pm	Plenary Panel 1
03:50 -- 04:00pm	Short Break
04:00 -- 04:50pm Session 2 Topic: ML for Testing (I) Session Chair: Marc Roper	Improving Automated GUI Testing by Learning to Avoid Infeasible Tests (Neil Walkinshaw)
	Ontology-driven Security Testing of Web Applications (Josip Bozic, Yihao Li and Franz Wotawa)
	Neural network classification for improving continuous regression testing (Dusica Marijan, Arnaud Gotlieb and Abhijeet Sapkota) (short paper)
04:50 -- 05:00pm	Short Break
05:00 -- 06:00pm - Invited Talk Session Chair: Marc Roper	Jie Zhang (Survey on ML Testing)
06:00 -- 08:00pm	Long Break
08:00 -- 08:50pm Session 3 Topic: Images Session Chair: Franz Wotawa	Dealing with Robustness of Convolutional Neural Networks for Image Classification (Paolo Arcaini, Andrea Bombarda, Silvia Bonfanti and Angelo Gargantini)
	Manifold-based Test Generation for Neural Network Image Classifiers (Taejoon Byun, Abhishek Vijayakumar, Sanjai Rayadurgam and Darren Cofer)
	Testing Acoustic Scene Classifiers using Metamorphic Relations (Diogo Moreira, Ana Paula Furtado and Sidney Nogueira)
08:50 -- 09:00pm	Short Break
09:00 -- 10:00pm	Parallel Sessions

**Day 2: 5 August (Wednesday)**

08:00 -- 08:50am Session 4 Topic: ML for Testing (II) Session Chair: Marc Roper	Identifying and Generating Missing Tests using Machine Learning on Execution Traces (Mark Utting, Bruno Legeard, Frédéric Dadeau, Frédéric Tamagnan and Fabrice Bouquet)
	Building a Classification System for Failed Test Reports: Industrial Experience (Sergey Pavlov, Anna Gromova, Iosif Itkin, Murad Mamedov, Alexander Libkov, Andrey Novikov, and Evgenii Tsymbalov)
	Cluster-Based Parallel Testing Using Latent Semantic Analysis (Cristina Landin, Sahar Tahvili, Hugo Haggren, Martin Långkvist and Amy Loutfi)
08:50 -- 09:00am	Short Break
09:00 -- 09:50am Session 5 Topic: Metamorphic Testing and Assessment Session Chair: George Zhou	Accuracy Measurement of Deep Neural Network Accelerator via Metamorphic Testing (Chaojin Wang, Jian Shen, Chunrong Fang, Xiangsheng Guan, Kaitao Wu and Jiang Wang)
	Image Quality Assessment Method For Defect Inspection on Metal Surface (Hsien-I Lin and Po-Yi Lin)
	Automated identification of metamorphic test scenarios for an ocean-modeling application (Dilip J Hiremath, Martin Claus, Wilhelm Hasselbring and Willi Rath) (short paper)
09:50 -- 10:00am	Short Break
10:00 -- 10:50am	Parallel Sessions
10:50 -- 11:00am	Short Break
11:00 -- 12:00am	Plenary Keynote 3: Hongji Yang (MobileCloud)
12:00 -- 02:00pm	Long Break
02:00 -- 02:50pm	Plenary Keynote 4: Jeff Voas (SOSE)
02:50 -- 03:00pm	Short Break
03:00 -- 03:50pm	Plenary Panel 2
03:50 -- 04:00pm	Short Break
04:00 -- 04:50pm Session 6 Topic: Data Session Chair: Franz Wotawa	Automation of Datamorphic Testing (Hong Zhu, Ian Bayley, Dongmei Liu and Xiaoyu Zheng)
	Evaluating Validity of Synthetic data in Perception tasks for Autonomous Vehicles (Deepak Talwar, Sachin Guruswamy, Naveen Ravipati and Magdalini Eirinaki)
	Test-Driven Anonymization in Health Data: A Case of Study on Assistive Reproduction (Cristian Augusto, Miguel Angel Olivero, Jesús Morán, Leticia Morales, Claudio De La Riva, Javier Aroba and Javier Tuya) (short paper)
04:50 -- 05:00pm	Short Break
05:00 -- 06:00pm Session 7 Topic: Evaluation of ML algorithms Session Chair: Marc Roper	Attribute-based Granular Evaluation for Performance of Machine Learning Models (Henri Trenquier, Fuyuki Ishikawa and Susumu Tokumoto)
	Effectiveness of dataset reduction in testing machine learning algorithms (Jaganmohan Chandrasekaran, Huadong Feng, Yu Lei, Raghu Kacker and Richard Kuhn)
06:00 -- 08:00pm	Long Break
08:00 -- 08:50pm	Parallel Sessions
08:50 -- 09:00pm	Short Break
09:00 -- 10:00pm	Plenary Planning Meeting

**Day 3: 6 August (Thursday)**

08:00 -- 08:50am	Parallel Sessions
08:50 -- 09:00am	Short Break
09:00 -- 09:50am	Parallel Sessions
09:50 -- 10:00am	Short Break
10:00 -- 10:50am	Parallel Sessions
10:50 -- 11:00am	Short Break
11:00 -- 12:00am	Plenary Keynote 5: Rajiv Ranjan (JCC)
12:00 -- 02:00pm	Long Break
02:00 -- 02:50pm	Plenary Keynote 6: John Calian (DAPPS)
02:50 -- 03:00pm	Short Break
03:00 -- 03:50pm	Plenary Panel 3
03:50 -- 04:00pm	Short Break
04:00 -- 04:50pm	Parallel Sessions
04:50 -- 05:00pm	Short Break
05:00 -- 06:00pm	Plenary Close Session (Award of best papers and best presentations)