SINGAPORE

AIDA-AT 2020 Conference, Nanyang Technological University, Singapore

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Events AIDA-AT 2020 Conference Programme

AIDA-AT 2020 PROGRAMME

- Papers are to presented in order as shown in the agenda below.
- Presentation schemes:
 - -- Keynote presentation: 25 minutes talk + 5 minutes Q&A
 - -- Regular presentation: 20 minutes talk + 5 minutes Q&A
 - -- Short presentation: 10 minutes talk + 5 minutes Q&A

Download the conference programme in PDF:

http://event.ntu.edu.sg/AIDAAT2020/Documents/AIDA-AT-2020-Programme.pdf

Date	Session	Paper ID	Authors / Speakers	Paper / Presentation Title	Presentation Scheme			
DAY 1	8:15 - 8:45 Conference Registration							
	8:45 - 9:30 Welcome and Conference Opening							
	Prof. Louis Phee, Dean of the College of Engineering, Nanyang Technological University, Singapore Prof. Vu N. Duong, General Chair, AIDA-AT 2020, Director of Air Traffic Management Research Institute (ATMRI), NTU Singapore A/Prof. Sameer Alam, Conference Co-Chair, AIDA-AT 2020							
Monday	KEYNOTE SESSION 1A 9:30 - 10:30	KN1	Invited Speaker: Professor Jean-Marc Alliot	In medio stat virtus	Keynote			
3 Feb 2020 Morning		KN2	Invited Speaker: Professor Laurent El Ghaoui	Natural Language Processing for ATM Applications	Keynote			
	Coffee break 10:30 - 11:00							
	KEYNOTE SESSION 1B 11:00 - 12:00	KN3	Invited Speaker: Professor Jacco Hoekstra	Challenges of using Open Data & Open Source in ATM Research	Keynote			
		KN4	Invited Speaker: Professor Hussein A. Abbass	Apprenticeship Bootstrapping: Intelligent Shepherds for Swarm Traffic Management Systems	Keynote			
			LUNCH 12:00 - 13:00					
		27	Narendra Pratap Singh, Sim Kuan Goh and Sameer Alar	Real-time Unstable Approach Detection Using Sparse Variational Gaussian Process	Regular			
	TECHNICAL SESSION 1 13:00 - 15:05	29	Rihab Khemiri, Mohamed Naija and Ernesto Exposito	Using formal methods to Safety Analysis in Unmanned Aerial Vehicle	Short			
		33	Hasnain Ali, Raphael Delair, Sameer Alam and Michael Schultz	Dynamic conflict hot spots on airport taxiways	Short			
	Al for ATM Safety	37	Lu Dai and Mark Hansen	Real-time Prediction of Runway Occupancy Buffers	Regular			
DAY 1 Monday	Session chair: Nicolas Durand	22	Zhengyi Wang, Man Liang and Daniel Delahaye	Data-driven Conflict Detection Enhancement in 3D Airspace with Machine Learning	Short			
		38	Paveen Juntama, Supatcha Chaimatanan, Sameer Alam and Daniel Delahaye	A Distributed Metaheuristic Approach for Complexity Reduction in Air Traffic for Strategic 4D Trajectory Optimization	Short			
3 Feb 2020		19	Vincent de Vries	Classification of Aviation Safety Reports using Machine Learning	Short			
Afternoon	Coffee break 15:05 - 15:30							
	TECHNICAL SESSION 2	4	Richard Alligier	Predictive Joint Distribution of the Mass and Speed Profile to Improve Aircraft Climb Prediction	Regular			
	15:30 - 16:50 Machine Learning for ATM Predictions Session chair: Michael Schultz	24	Andreas Brieden and Peter Gritzmann	Predicting show rates in air cargo transport	Short			
		9	Gabriel Jarry, Daniel Delahaye and Eric Feron	Approach and landing aircraft on-board parameters estimation with LSTM networks	Regular			
		1	Philippe Monmousseau, Gabriel Jarry, Florian Bertosio, Daniel Delahaye and Marc Houalla	Predicting passenger flow at Charles De Gaulle airport security checkpoints	Short			

Conference Dinner
Refer to Social Events page for more information

Date	Session	Paper ID	Authors / Speakers	Paper / Presentation Title	Presentation Scheme		
DAY 2	KEYNOTE SESSION 2A 9:00 - 10:00	KN5	Invited Speaker: Professor Mark Hansen	Fuel for Thought: Reflections on my Fuel Loading Data Adventure	Keynote		
		KN6	Invited Speaker: Professor Daniel Delahaye	The Bridge Between Meta-Heuristics and Simulation: Application to ATM	Keynote		
Tuesday	Coffee break 10:00 - 10:30						
4 Feb 2020		KN7	Invited Speaker: Professor Henk Blom	Agent-based Modelling and Simulation of future ATM	Keynote		
Morning	KEYNOTE SESSION 2B 10:30 - 12:00	KN8	Invited Speaker: Professor Kozo Fujii	Cellular Automaton Air Traffic Flow Simulators toward Efficient and Robust Managements	Keynote		
		KN9	Invited Speaker: Dr. Banavar Sridhar	Observations on the Application of Machine Learning Techniques to Aviation Operations	Keynote		
			LUNCH 12:00 - 13:00				
		31	Michael Schultz, Xavier Olive, Judith Rosenow, Hartmut Fricke and Sameer Alam	An ADS-B based milestone concept for the management of airport ground operations	Regular		
	TECHNICAL SESSION 3 13:00 - 15:05	3	Jaime Rubio, Abhishek Gupta, Yew-Soon Ong and Mahmut Reyhanoglu	Pay-per-flight Dynamic Pricing of UAV Operations	Short		
		34	Shuwei Chen, Yanjun Wang, Minghua Hu, Ying Zhou, Daniel Delahaye and Siyuan Lin	Community Detection of Chinese Airport Delay Correlation Network	Short		
	Al for Operational Efficiency	25	Gregoire Ky, Sameer Alam and Vu Duong	A traffic method for unmanned aircraft systems on a virtual closed circuit	Short		
	Session chair: Rainer Koelle	6	David Gianazza and Nicolas Durand	Ant Colony Systems for Optimizing Sequences of Airspace Partitions	Regula		
DAY 2		30	Chunyao Ma, Qing Cai, Sameer Alam and Vu Duong	Airspace Capacity Overload Identification Using Collision Risk Patterns	Short		
Tuesday		5	Nang Laik Ma	Multi-Objective Gate Assignment Problem for An Airport	Short		
Feb 2020	Coffee break 15:05 - 15:30						
Afternoon		14	Max Z. Li, Karthik Gopalakrishnan, Yanjun Wang and Hamsa Balakrishnan	Outlier Analysis of Airport Delay Distributions in US and China	Regular		
	TECHNICAL SESSION 4 15:30 - 17:20 Data-Driven ATM Session chair: Sameer Alam	26	Nam Tran, Thinh Pham and Sameer Alam	A Map-Matching Algorithm for Ground Movement Trajectory Representation using A-SMGCS Data	Short		
		8	Evgenii Munin, Antoine Blais and Nicolas Couellan	Convolutional Neural Network for Multipath Detection in GNSS Receivers	Short		
		7	Philippe Monmousseau, Aude Marzuoli, Daniel Delahaye and Eric Feron	Door-to-door air travel time analysis in the United States using Uber data	Short		
		11	Kristofer Krus, Tatiana Polishchuk and Valentin Polishchuk	Identifying Interesting Moments in Controllers Work Video via Dimensionality Reduction	Short		
		36	Banavar Sridhar	Application of Machine Learning Techniques to Aviation Operations: Promises and Challenges	Regula		
		Hi-Tea a	18:00 - 19:30 and Tour to Radar and Tower Simulator at Air Traffic Mana Refer to Social Events page for more				

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