

Best Paper Award List – ATM2011

Title of Paper	Authors	Award (Track)
Demonstration of Reduced Airport Congestion through Pushback Rate Control*	<ul style="list-style-type: none"> • Ioannis Simaiakis • Harshad Khadilkar • Hamsa Balakrishnan • Tom G. Reynolds • R. John Hansman <i>MIT</i> • Brenda Reilly • Stephen Urlass <i>FAA</i> 	Environment and Energy Efficiency *Kevin Corker Award for Best Paper of ATM2011 Seminar
Estimating ATM Efficiency Pools in the Descent Phase of Flight	<ul style="list-style-type: none"> • • Dave Knorr • Xing Chen • Marc Rose • John Gulding <i>FAA</i> • Philippe Enaud • Holger Hegendoerfer <i>EUROCONTROL</i> 	ATM Performance Measurement and Management
The Role of Workload for Work Organization in a Remote Tower Control Center	<ul style="list-style-type: none"> • Christoph Moehlenbrink • Anne Papenfuss • Jorn Jakobi <i>DLR</i> 	Human Factors
A New Approach for Designing Safer Collision Avoidance Systems	<ul style="list-style-type: none"> • Mykel J. Kochenderfer • James Chryssanthacopoulos • Roland E. Weibel <i>MIT Lincoln Laboratory</i> 	Separation
Performance Evaluation of a Surface Traffic Management Tool for Dallas/Fort Worth International Airport	<ul style="list-style-type: none"> • Yoon Jung • Ty Hoang • Justin Montoya <i>NASA Ames</i> • Gautam Gupta • Waqar Malik • Leonard Tobias <i>University of California – Santa Cruz</i> • Hua Wang <i>San Jose State University</i> 	Integrated Airport/Airside Operations
Contrasting Safety Assessments of a Runway Incursion Scenario by Event	<ul style="list-style-type: none"> • Sybert H. Stroeve • Henk A.P. Blom 	Safety

Sequence Analysis versus Multi-Agent Dynamic Risk Modeling	<ul style="list-style-type: none"> • G.J. (Bert) Bakker <i>NLR</i> 	
A Multi-stakeholder Evaluation of Strategic Slot Allocation Schemes under Airline Frequency Competition	<ul style="list-style-type: none"> • Vikrant Vaze • Cynthia Barnhart <i>MIT</i> 	Network and Strategic Traffic Flow Optimization
Airspace Phase Transitions and the Traffic Physics of Interacting 4D Trajectories	<ul style="list-style-type: none"> • Bruce K. Sawhill • James W. Herriot • Bruce J. Holmes • Ken Seehart <i>NextGen AeroSciences, LLC</i> 	Dynamic Airspace and Capacity Management
Airline Based En Route Sequencing and Spacing Field Test Results: Observations and Lessons Learned for Extended Metering	<ul style="list-style-type: none"> • Peter M. Moertl <i>MITRE CAASD</i> 	Enhanced Surveillance and Navigation Applications & Procedures
Generating Probabilistic Capacity from Weather Forecast: A Design-of-Experiment Approach	<ul style="list-style-type: none"> • Gurkaran Buxi • Mark Hansen <i>University of California – Berkeley</i> 	Weather in ATM
Discovering Delay Patterns in Arrival Traffic with Dynamic Continuous Descent Approaches using Co-Evolutionary Red Teaming	<ul style="list-style-type: none"> • Sameer Alam • Wenjing Zhao • Jiangjun Tang • Chris Lokan • Hussein Abbass <i>University of New South Wales</i> • Mohamed Ellejmi • Stephen Kirkby <i>EUROCONTROL</i> 	Air Ground Automation Integrated Concepts
Integrating Best-Equipped Best-Served Principles in Ground Delay Programs	<ul style="list-style-type: none"> • Andrew M. Churchill • Michael O. Ball <i>University of Maryland</i> • Alexander David Donaldson • R. John Hansman <i>MIT</i> 	Finance and Policy
Dynamically Generating Operationally-Acceptable Route Alternatives Using Simulating Annealing	<ul style="list-style-type: none"> • Christine Taylor • Craig Wanke <i>MITRE CAASD</i> 	Trajectory and Queue Management