Program on Organized Sessions and Technical Sessions (Draft)

: Organized Session : Technical Session : Invited Speech : Poster Session

2017/11/15 (Wed.)

| | Room#1 Future Radio Technologies (1) (Organized Session) |
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| 9:20-9:45 A-082 Hiroshi Murata | Wireless-optical signal converter utilizing stacked-patch antennas and electro-optic substrates |
| 9:45-10:10 A-075 Matthias Steeg | Frequency Steerable 60 GHz Multibeam Antennas for 5G Hot-Spots |
| 10:10-10:35 A-060 Yasuyuki Kakubari | ADS-B latency estimation technology for surveillance performance assessment |
| 10:35-11:00 A-065 Junichi Naganawa | Jamming and Spoofing Protection for ADS-B Mode S Receiver through Array Signal Processing |
| 11:00-11:25 I-080 Yosuke Sato | 90GHz-band FOD detection Radar system for Runway Surveillance |
| | Doom#2 ATM Porformance |
| | Room#2 ATM Performance |
| 9:20-9:45 A-004 Thomas Standfuß | Air Traffic Management Performance Benchmarking - A disaggregated approach |
| 9:45-10:10 A-032 Michael Schultz | Future airspace design by dynamic sectorization |
| 10:10-10:35 I-014 Zheng Zhao | Data-Driven Modeling of the Air Traffic Departure Flow Analysis in Multi-Airport Systems |
| 10:35-11:00 A-026 Thomas Feuerle | An approach for attribute- and performance-based evaluation of interdependent critical infrastructures |
| 11:00-11:25 I-061 Xinhua Xu | Operational resilience of airport network |
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| | Room#1 Invited Speech |
| 12:40-13:25 | TBD |
| 13:25-14:10 | TBD |
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| | Room#3 Poster Session |
| 14:10-14:50 | |

| | Room#1 Future Radio Technologies (2) (Organized Session) |
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| 14:50-15:15 A-079 Kei Akama | Interference mitigation in linear cell FOD radar by using FMCW signal source with different sweep speed |
| 15:15-15:40 A-027 Christian Pichot | Millimeter-wave Imaging for FOD Detection |
| 15.40.10.05 A. 007. E. L.: | Simulation Evaluation of the Number of MmWave Access Points to Cover the Passenger Car of High Speed |
| 15:40–16:05 A–067 F. Lu | Trains |
| 16:05-16:30 A-081 Atsushi Kanno | Bistatic Radar System in Terahertz Bands Based on Radio Over Fiber Network |

| | | Room#2 Airport Management |
|----------------------------|---------------------------|---|
| 14·50-15·15 I-034 | Helmut Hermann Toebben | The role of research organizations in SESAR 2020 |
| 15:15-15:40 A-023 F | Florian Piekert | Europe's next step in Airport Performance Management Research |
| 15:40-16:05 A-017 | Ji Ma | A study of Tradeoffs in Airport Coordinated Surface Operations |
| 16:05-16:30 A-011 N | Michael Schultz | Reliable Aircraft Boarding for Fast Turnarounds |
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| | | Room#1 Trajectory Management |
| 16:45-17:10 A-033 k | Kohei Hayashi | Efficient Continuous Descents at Tokyo International Airport |
| 17:10-17:35 A-018 [| Daniel Delahaye | Trajectory Mathematical Distance Applied to Airspace Major Flows Extraction |
| 17:35-18:00 A-074 A | Arianit Islami | Optimization of military missions impact on civilian 4D trajectories |
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| | | Room#2 Space Weather (Organized Session) |
| 16:45-17:10 I-036 N | Mamoru Ishii | Discussion of Space Weather in ICAO and Related Research Activity in Japan |
| 17:10-17:35 I-049 | Tatsuhiko Sato | Warning System for Aviation Exposure to Solar Energetic Particle (WASAVIES) |
| 17:35-18:00 A-063 k | Kornyanat Hozumi | HF-START: Application in aid of radio communications/ navigation |

2017/11/16 (Thu.)

| 9:20-9:45 A-078 Takayuki Yoshihara Development of a CAT-III GBAS (GAST-D) ground subsystem prototype and its performance evaluation with a long term-data set 9:45-10:10 A-08 Thomas Feuerle GBAS Interoperability and Multi-Constellation / Multi-Frequency Trials 10:10-10:35 A-031 Susumu Saito Interoperability of ENRI GAST-D Prototype with Different Airborne Software Implementations 10:35-11:00 I-076 Sarawoot Rungruengwajjake 11:00-11:25 I-088 Frederic Belloir How to fly all approach types? Airbus xLS concept: from ILS to SLS Room#2 UAS 9:20-9:45 I-084 Wanchao Chi Traffic Management of Unmanned Aircraft Systems (TM-UAS) in Urban Environment 9:45-10:10 I-006 Björn Blom The MoNlfly approach to an Unmanned Traffic Management System (UTM) 10:10-10:35 I-035 Sam Pullen A Concept for Coordinated UAV Operations Based on Local-Area Differential GNSS Navigation and Guidance 11:00-11:25 A-042 Rania W. Ghatas The Effects of Alert Scoring and Alert Jitter on a Minimum Operations Performance Standards Unmanned Aircraft Systems Detect and Avoid System | | | | Room#1 GBAS (Organized Session) |
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| | 11:00-11:25 | A-042 | Rania W. Ghatas | · |

| Room#1 Traffic Capacity & Congestion Management Room#1 Traffic Capacity & Congestion Management Room#1 Traffic Capacity & Congestion Management Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Interpreted Benefits of Speed Control on Delay and Fuel Consumption Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanned freight formation flights in the European air traffic management system Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Cap | | | Room#3 Aviation Safety |
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| | 9:20-9:45 I-087 | Keiko Moebus | What will air traffic controllers (ATCOs) be doing in the future, in a more automated ATM environment? |
| Johannes Diepolder Aircraft Safety Analysis using Generalized Polynomial Chaos Johannes Diepolder Aircraft Safety Analysis using Generalized Polynomial Chaos Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety Analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety analysis on safety assessment for off-set routes Johannes Diepolder Aircraft Safety analysis of Shenzhen Airlines 4D/16 Tracking Demonstration | | | |
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| Room#1 Invited Speech TBD Room#1 Traffic Capacity & Congestion Management Room#2 Star R&D Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Room#2 ATM Modeling(1) Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanned freight formation flights in the European air traffic management system Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories ATM Performance Analysis considering Minimum Climatology Impact Trajectories Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation Geo-Informatics Platform for Aviation | 10:35-11:00 A-029 | Jae-Hyun Han | Preliminary analysis on safety assessment for off-set routes |
| Room#1 Traffic Capacity & Congestion Management The Flow centric approach: an emerging concept from SESAR R&D Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management Operations Potential Benefits of Speed Control on Delay and Fuel Consumption Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanned freight formation flights in the European air traffic management and GBAS Landing System A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSS) | 11:00-11:25 A-059 | Zhe Zhang | Performance Analysis of Shenzhen Airlines' 4D/15 Tracking Demonstration |
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| Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management (IM) Flight Path Angle Description of Integrated Bi-level Arriwal And Departure Time Assignment for Optimal Trajectories And Modeling(I) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanagement Path Management According Flight Path Management According Integration of Integration of Integrated Bi-level Arriwal Operations Visual Digital Airline Simulation Integration of Integrated Bi-level Arriwal According Flight Path Management According Integrated Bi-level Arrial Digital Airline Simulation Integrated Bi-level Arrial Di | | | Room#1 Traffic Capacity & Congestion Management |
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| Potential Benefits of Speed Control on Delay and Fuel Consumption Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories Room#2 ATM Modeling(1) Jendrick Westphal Trajectories Room#2 ATM Modeling(1) Jendrick Westphal Trajectories Room#2 ATM Modeling(1) Jendrick Westphal Trajectories Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanned freight formation flights in the European air traffic management system Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation Room#1 SWIM (Organized Session) | 14:25-14:50 A-040 | Brian T. Baxley | Results from an Interval Management (IM) Flight Test and Its Potential Benefit to Air Traffic Management |
| Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories Room#2 ATM Modeling(1) Jendrick Westphal Tanja Luchkova Thimpio Koca Sci-14:50 A-003 Thimpio Koca Sci-15:15 A-051 Thimpio Koca Sci-15:15 I-085 Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation Room#2 ATM Modeling(1) Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of Improving Airline Disruption Management through a Virtual Digital Airline Simulation Integration of unmanned freight formation flights in the European air traffic management system Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | 14·50-15·15 A-083 | Yoshinori Matsuno | • |
| Room#2 ATM Modeling(1) 100-14:25 I-001 Jendrick Westphal Integration of unmanned freight formation flights in the European air traffic management system 150-15:15 A-051 Thimjo Koca Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management 15-15:40 I-020 Navinda Kithmal Wickramasinghe Wickramasinghe Modeling System 15-15:40 I-020 Navinda Kithmal Wickramasinghe Wickramasinghe Wickramasinghe A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System 15-15:40 I-020 Navinda Kithmal Wickramasinghe Wickramasinghe Wickramasinghe A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System 15-16:20 I-04:25 A-048 Navinda Gonzalez-Arribas Aniel Gonzalez-Arribas Aniel Gonzalez-Arribas Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar 15-15:15 I-085 Navinda Kithmal Wickramasinghe A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System 15-16:20 I-085 Navinda Gonzalez-Arribas Aniel Gonzalez- | | | · · · · · · · · · · · · · · · · · · · |
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| A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System Room#3 Aviation Weather ATM Performance Analysis considering Minimum Climatology Impact Trajectories Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Robust Optimal Trajectory Planning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | | • | |
| Room#3 Aviation Weather Daniel Gonzalez-Arribas Daniel Gonzalez-Banael Gonzal | 14:50-15:15 A-051 | | |
| Room#3 Aviation Weather Daniel Gonzalez-Arribas Daniel Gonzalez-Arribas Daniel Gonzalez-Arribas Daniel Gonzalez-Arribas Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk | 15·15–15·40 I–020 | | |
| ATM Performance Analysis considering Minimum Climatology Impact Trajectories Arribas Daniel Gonzalez- Arribas Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Solution Tanino Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | 10.10 10.10 1 020 | Wickramasinghe | and GBAS Landing System |
| Arribas Daniel Gonzalez- Arribas Solution Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | | | Room#3 Aviation Weather |
| Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Standard Taribas Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Room#1 SWIM (Organized Session) Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Standard Taribas Taro Kashiwayanagi Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | 14:00-14:25 A-048 | | ATM Performance Analysis considering Minimum Climatology Impact Trajectories |
| Room#1 SWIM (Organized Session) S55-16:20 I-009 Midori Tanino Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | 14:25-14:50 A-073 | | Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk |
| Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | 14:50-15:15 I-085 | Taro Kashiwayanagi | Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar |
| Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs) Geo-Informatics Platform for Aviation | | | |
| Navigation Service Providers (ANSPs) 20-16:45 I-077 S. Chaimatanan Geo-Informatics Platform for Aviation | | | |
| 20-16:45 I-077 S. Chaimatanan Geo-Informatics Platform for Aviation | 15:55-16:20 I-009 | Midori Tanino | |
| 245-17:10 A-053 Carlos Morales Design of a software environment to support machine learning analysis of aircraft trajectories | 16:20-16:45 I-077 | S. Chaimatanan | |
| ··· ··· · · · · · · · · · · · · · · · | 16:45-17:10 A-053 | Carlos Morales | Design of a software environment to support machine learning analysis of aircraft trajectories |
| :10-17:35 A-056 Xiaodong Lu Coordinated Validation for SWIM Concept-Oriented Operation to Achieve Interoperability | 17:10-17:35 A-056 | Xiaodong Lu | Coordinated Validation for SWIM Concept-Oriented Operation to Achieve Interoperability |
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| | | Room#2 ATM Modeling(2) |
|--------------------------|----------------------|---|
| 15:55-16:20 A-024 | Juergen Rataj | From Perfect to Possible: Two Trajectory Based Operation Concepts for Future Terminal Manoeuvring Areas |
| 16:20-16:45 A-044 | Ning Wang | Optimal location of temporary military zones within civil aviation traffic |
| 16:45-17:10 A-055 | Akinori Harada | Cost Index Estimation via Optimization based Trajectory Prediction |
| 17 10 17 0F A OFO | Tamaski Wakawana | A Describility of Continuous Descrit Councilor in the Connected Aircress |
| 17:10-17:35 A-058 | Tomoaki wakayama | A Possibility of Continuous Descent Operation in the Congested Airspace |
| 17:10-17:35 A-058 | тогпоакі ууакауагііг | · · · · · · · · · · · · · · · · · · · |
| 17:10-17:35 A-058 | Tomoaki wakayama | Room#3 CNS Systems |
| 15:55-16:20 A-037 | • | |
| | Yoshio Kosuge | Room#3 CNS Systems |