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)

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

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

Room#1　Invited Speech

12:40–13:25		TBD
13:25–14:10		TBD

Room#3　Poster Session

14:10–14:50	

Room#1　Future Radio Technologies (2)　(Organized Session)

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
15:40–16:05	A-067	F. Lu	Simulation Evaluation of the Number of MmWave Access Points to Cover the Passenger Car of High Speed 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

Time	ID	Author	Title
14:50–15:15	I-034	Helmut Hermann Toebben	The role of research organizations in SESAR 2020
15:15–15:40	A-023	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	Michael Schultz	Reliable Aircraft Boarding for Fast Turnarounds

Room#1　Trajectory Management

Time	ID	Author	Title
16:45–17:10	A-033	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	Arianit Islami	Optimization of military missions impact on civilian 4D trajectories

Room#2　Space Weather　(Organized Session)

Time	ID	Author	Title
16:45–17:10	I-036	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	Kornyanat Hozumi	HF-START: Application in aid of radio communications/ navigation

2017/11/16 (Thu.)

Room#1　GBAS　(Organized Session)

Time	ID	Author	Title
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-008	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 Rungruengwajiake	Assessment of CAT-I GBAS under the ionospheric conditions in Thailand using APAC ionospheric threat model
11:00–11:25	I-088	Frederic Belloir	How to fly all approach types? Airbus xLS concept: from ILS to SLS

Room#2　UAS

Time	ID	Author	Title
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 MoNIfly 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
10:35–11:00	A-050	Daichi Toratani	Simulation Techniques for Small Unmanned Aircraft Systems (sUAS) Trajectories including Signal Propagation
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#3   Aviation Safety

Time	ID	Author	Title
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?
9:45–10:10	A-022	Haruka Yoshida	Analysis of Positive and Negative Effects of Salience on the ATC Task Performance
10:10–10:35	A-028	Johannes Diepolder	Aircraft Safety Analysis using Generalized Polynomial Chaos
10:35–11:00	A-029	Jae-Hyun Han	Preliminary analysis on safety assessment for off-set routes
11:00–11:25	A-059	Zhe Zhang	Performance Analysis of Shenzhen Airlines' 4D/15 Tracking Demonstration

Room#1   Invited Speech

Time			Title
13:00–13:45			TBD

Room#1   Traffic Capacity & Congestion Management

Time	ID	Author	Title
14:00–14:25	I-071	Patrick Souchu	The Flow centric approach: an emerging concept from SESAR R&D
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 Operations
14:50–15:15	A-083	Yoshinori Matsuno	Potential Benefits of Speed Control on Delay and Fuel Consumption
15:15–15:40	A-025	Benedikt Grüter	Integrated Bi-level Arrival and Departure Time Assignment for Optimal Trajectories

Room#2   ATM Modeling(1)

Time	ID	Author	Title
14:00–14:25	I-001	Jendrick Westphal	Improving Airline Disruption Management through a Virtual Digital Airline Simulation
14:25–14:50	A-003	Tanja Luchkova	Integration of unmanned freight formation flights in the European air traffic management system
14:50–15:15	A-051	Thimjo Koca	Design of a Multi-Agent System framework for Decentralized Decision Making in Air Traffic Management
15:15–15:40	I-020	Navinda Kithmal Wickramasinghe	A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent and GBAS Landing System

Room#3   Aviation Weather

Time	ID	Author	Title
14:00–14:25	A-048	Daniel Gonzalez-Arribas	ATM Performance Analysis considering Minimum Climatology Impact Trajectories
14:25–14:50	A-073	Daniel Gonzalez-Arribas	Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk
14:50–15:15	I-085	Taro Kashiwayanagi	Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar

Room#1   SWIM   (Organized Session)

Time	ID	Author	Title
15:55–16:20	I-009	Midori Tanino	Collaboration to Implement Air Traffic Flow Management (ATFM) Capabilities in the Region with Multiple Air Navigation Service Providers (ANSPs)
16:20–16:45	I-077	S. Chaimatanan	Geo-Informatics Platform for Aviation
16:45–17:10	A-053	Carlos Morales	Design of a software environment to support machine learning analysis of aircraft trajectories
17:10–17:35	A-056	Xiaodong Lu	Coordinated Validation for SWIM Concept-Oriented Operation to Achieve Interoperability

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**
17:10−17:35	A−058	Tomoaki Wakayama	**A Possibility of Continuous Descent Operation in the Congested Airspace**

Room#3   CNS Systems

15:55−16:20	A−037	Yoshio Kosuge	**Estimation of 3-dimensional Location and Velocity Using Range with Bias Error and Doppler Measurements**
16:20−16:45	A−072	Ping Han	**Automatic Detection of Airport Runway Area Based on Super-Pixel PolSAR Image Classification**
16:45−17:10	I−052	Jean-Marc Loscos	**French DSNA approach to CNS rationalization & evolution**