I. Programme for EIWAC2017

EIWAC 2017

Drafting Future Skies

November

14th DAY1

Registration starts on 9:15

Convention Hall

ID	Time	Title	Presenter	
L-1	10:15	Lecture:	Daniel Delahaye	ENAC
		"Airspace Design Optimization: Structure \rightarrow	·	
		Capacity"		
	44.45			
		Lunch Break		
	13:00	Opening Remarks	Hiroyuki Yamato	MPAT
K-1	13:15	Keynote Speech from ICAO	Stephen P.	ICAO
			Creamer	
				05045 711
K-2	14:15	Keynote Speech from SESAR JU	Florian	SESAR JU
		"Towards a Digital Aviation Infrastructure"	Guillermet	
	15:15	Coffee Break		
K-3		Keynote Speech from FAA	Pamela Whitley	ΕΛΛ
K-2	13.30	"Aviation: A Global Digital Journey"	rainela Williney	IAA
		Aviation. A Global Digital Southey		
K-4	16:30	Keynote Speech from JCAB	Yasuhiro Iijima	JCAB
		"CARATS Long-term Vision for Air Traffic Systems	,	
		-the Challenge for realization of Future technology -"		
K-5	17:00	Keynote Speech from ENRI	Masahiro Kudo	ENRI
		"Perspective on the role of R&D toward the future		
		sky"		
	17:30	Closing Remarks	Shigeru Ozeki	ENRI
		3	5 5	
	18:00	Welcome Reception@Foyer		

15th

The rooms open 9:05.

DAY2 Room 1

	- -	7:1		
Paper ID	Time	Title	Presenter / Chair	
		Organized Session Future Radio Technologies (1)	N. Yonemoto	ENRI
EN-A-082	9:20	Wireless-optical signal converter utilizing stacked-patch antennas and electro-optic substrates	H.Murata	Osaka University
EN-A-075	9:45	Frequency Steerable 60 GHz Multibeam Antennas for 5G Hot-Spots	M. Steeg	University of Duisburg-Essen
EN-A-060	10:10	ADS-B latency estimation technology for surveillance performance assessment	Y. Kakubari	ENRI
EN-A-065	10:35	Jamming and Spoofing Protection for ADS-B Mode S Receiver through Array Signal Processing	J. Naganawa	ENRI
EN-I-080	11:00	90GHz-band FOD detection Radar system for Runway Surveillance	Y. Sato	Hitachi Kokusai Electric Inc.
	11:25	Lunch Break		
		Special Speech	T. Koga	ENRI
S-1	12:40	Special Speech 1 "Drafting Future Skies - From SWIM to a fully digitised ATM"	P. Bosman	EUROCONTROL
S-2	13:25	Special Speech 2 "Benefits of Standardisation - EUROCAE activities"	A. V. Groote	EUROCAE
		Organized Session Future Radio Technologies (2)	S.Futatsumori	ENRI
EN-A-079	14:50	Interference mitigation in linear cell FOD radar by using FMCW signal source with different sweep speed	K. Akama	Waseda University
EN-A-027	15:15	Millimeter-wave Imaging for FOD Detection	C. Pichot	Université Côte d'Azur
EN-A-067	15:40	Simulation Evaluation of the Number of MmWave Access Points to Cover the Passenger Car of High Speed Trains	F. Lu	KDDI Research, Inc.
EN-A-081	16:05	Bistatic Radar System in Terahertz Bands Based on Radio Over Fiber Network	A. Kanno	NICT
	16:30	Coffee Break		
		Technical Session Trajectory Management	J. Westphal	Jeppesen GmbH
EN-A-033	16:45	Efficient Continuous Descents at Tokyo International Airport	K. Hayashi	The University of Tokyo
EN-A-018	17:10	Trajectory Mathematical Distance Applied to Airspace Major Flows Extraction	D. Delahaye	ENAC
EN-A-074	17:35	Optimization of military missions impact on civilian 4D trajectories	A. Islami	ENAC
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15th

The rooms open 9:05.

DAY2 Room 2

Paper ID	Time	Title	Presenter / Chair	
·		Technical Session ATM Performance	K. Kageyama	ENRI
EN-A-004	9:20	Air Traffic Management Performance Benchmarking - A disaggregated approach	T. Standfuss	DLR
EN-A-032	9:45	Future airspace design by dynamic sectorization	M. Schultz	DLR
EN-I-014	10:10	Data-Driven Modeling of the Air Traffic Departure Flow Analysis in Multi-Airport Systems	Z. Zhao	NUAA
EN-A-026	10:35	An approach for attribute- and performance-based evaluation of interdependent critical infrastructures	T. Feuerle	Technische Universität Braunschweig
EN-I-061	11:00	Operational resilience of the airport network	X. Xu	NUAA
	11:25	Lunch Break		
		Technical Session Airport Management	R. Mori	ENRI
EN-I-034	14:50	The role of research organizations in SESAR 2020	H. H. Toebben	DLR
EN-A-023	15:15	Europe's next step in Airport Performance Management Research	F. Piekert	DLR
EN-A-017	15:40	A Study of Tradeoffs in Airport Coordinated Surface Operations	J. Ma	ENAC
EN-A-011	16:05	Reliable aircraft boarding for fast turnarounds	M. Schultz	DLR
	16:30	Coffee Break		
		Organized Session Space Weather	S. Saito	ENRI
EN-I-036	16:45	Discussion of Space Weather in ICAO and Related Research Activity in Japan	M. Ishii	NICT
EN-I-049	17:10	Warning System for Aviation Exposure to Solar Energetic Particle (WASAVIES)	T. Sato	Japan Atomic Energy Agency
EN-A-063	17:35	HF-START: Application in aid of radio communications/ navigation	K.Hozumi	NICT

Room 3

		KUUIII J		
Paper ID	Time	Title	Presenter / Chair	
	11:25	Exhibition		
	-14:50			
		Research and Development of Airport Surface Foreign	N.Yonemoto	ENRI
		Object Debris Detection System		
		Possarch and Davidanment of Helicenter Obstacle	S.Futatsumori	ENRI
		Research and Development of Helicopter Obstacle	S.Futatsumon	CINKI
		Detection System		
		ADS-B Signal Propagation Measurement and Application	J.Naganawa	ENRI
		to WAM Constellation Design		
	14:10	Poster Session		
	-14:50			
EN-A-005		Interactive prediction of airport noise monitoring data	L. Chen-hui	NUAA
		based on time-series similarity		
		,		
EN-A-010		Research on the Measure and Division of the Busyness	X. Hua	NUAA
LIN-A-010		Level of Airspace Waypoints	A. Hud	INUAA
		Level of All space waypoints		
EN-I-012		Dynamic En-route Diversion Approach under Convective	Y. Peng	NUAA
		Weather		
EN-A-030		Design of Domain Specific Ontology to Avoid	H. Takahashi	DHA Suffa
		Miscommunication between Pilots and Ground Control		University
		Operator		
EN-A-054		Research on the architecture of UAV-ATM information	Z. Geng, L. Ma	Civil Aviation
		platform based on mobile 4G network	J.	University of China
		•		,
EN-A-057		Prediction of Flight Time Uncertainty for 4D Trajectory	A. Motodani	Tokyo Metropolitan
LIV A 037		Management Street and Tolling Trajectory	A. Piotodani	University
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EN A 000		Online Tunicateur, Duodistion through Undation Aircraft	1.15.	NULAA
EN-A-068		· · · · · · · · · · · · · · · · · · ·	J. Liu	NUAA
		Position and Aircraft Intent		
EN-A-069		Integrated Arrival & Departure Aircraft Sequencing	X. M. Dai	NUAA
		under the Influence of Sequential Flights		
EN-I-089		Ground and on-board ATM procedures prototyping tools	K. Glagovskiy	GosNIIAS
		· · · · · · ·		

16th

The rooms open 9:05.

DAY3 Room 1

EN-A-078 9:20 Development of a CAT-III GBAS (GAST-D) ground subsystem prototype and its performance evaluation with a long term-data set EN-A-008 9:45 GBAS Interoperability and Multi-Constellation / Multi-Frequency Trials Prequency Trials Prequency Trials Prequency Trials Prototype with Different Airborne Software Implementations PNA-031 10:10 Interoperability of ENRI GAST-D Prototype with Different Airborne Software Implementations PNA-031 10:35 Assessment of CAT-I GBAS under the ionospheric conditions in Thailand using APAC ionospheric threat model Conditions in Thailand using APAC ionospheric threat model PNA-031 11:00 How to fly all approach types? Airbus xLS concept: from Pr. Belloir Airbus PNA-031 11:25 Lunch Break Special Speech T. Sakai ENRI Special Speech T. Sakai ENRI PROTOTOR PROTOT	Paper ID	Time	Title	Presenter / Chair	
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EN LOGO. 15:55 Collaboration to Implement Air Traffic Flow. M. Taning. M. Taning.			Organized Session SWIM	A. Lu	LINIXI
EN-1-009 13.33 CONADOLATION (O TIMPIEMENT AIL LEANING LIANINO FEGERAL AVIATION	EN-I-009	15:55	Collaboration to Implement Air Traffic Flow	M. Tanino	Federal Aviation
Management (ATFM) Capabilities in the Region with Administration					
Multiple Air Navigation Service Providers (ANSPs) (FAA)			Multiple Air Navigation Service Providers (ANSPs)		
	EN-I-077	16:20	Geo-Informatics Platform for Aviation	S. Chaimatanan	
Space Technology					
· - ·	EN A OFS	16.45	Design of a coffware environment to support we alive	C. Maralas	Development Agency
	EN-A-053	16:45		C. Morales	•
learning analysis of an erare trajectories			rearring analysis of ancian diajectories		Management Agency
	EN-A-056	17:10	Coordinated Validation for SWIM Concept-Oriented	X. Lu	
Operation to Achieve Interoperability		. = 4		•	
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16th

The rooms open 9:05.

DAY3 Room 2

Paper ID	Time	Title	Presenter / Chair	
тарет тв	Tillic	Technical Session UAS	W. Johnson	NASA
		Technical Session GAS	W. Johnson	NASA
EN-I-084	9:20	Traffic Management of Unmanned Aircraft Systems	W. Chi	ATMRI, Nanyang
		(TM-UAS) in Urban Environment		Technological
				University
EN-I-006	9:45	The MoNIfly approach to an Unmanned Traffic	B.Blom	Technische
		Management System (UTM)		Universität
				Braunschweig
EN-I-035	10:10	A Concept for Coordinated UAV Operations Based on	S. Pullen	Stanford University
		Local-Area Differential GNSS Navigation and Guidance		
EN-A-050	10:35	Simulation Techniques for Small Unmanned Aircraft	D. Toratani	ENRI
		Systems (sUAS) Trajectories including Signal		
EN A 042	11.00	Propagation The Officers of Alext Seering and Alext litter on a	D. W. Chatas	NACA Lamalov
EN-A-042	11:00	The Effects of Alert Scoring and Alert Jitter on a Minimum Operations Performance Standards Unmanned	R. W. Ghatas	NASA Langley Research Center
		Aircraft Systems Detect and Avoid System		Research Center
	11.25	Lunch Break		
	11.25	Editor Break		
	13:45	Coffee Break		
	13.13	Technical Session ATM Modeling (1)	A. Harada	Kochi University of
		reclinical Session ATM Modeling (1)	A. Haraua	Technology
				reciliology
EN-I-001	14:00	Improving Airline Disruption Management through a	J. Westphal	Boeing Global
		Virtual Digital Airline Simulation	·	Services
EN-A-003	14:25	Integration of unmanned freight formation flights in the	T. Luchkova	DLR
		European air traffic management system		
EN-A-051	14:50	Design of a Multi-Agent System framework for	T. Koca	Autonomous
		Decentralized Decision Making in Air Traffic		University of
EN 1 020	15.15	Management A Consentual Approach for Efficient Arrival Operations	N. K. Wiekramasingho	Barcelona
EN-I-020	15:15	A Conceptual Approach for Efficient Arrival Operations via the Integration of Fixed-Flight Path Angle Descent	N. K. Wickramasinghe	ENRI
		and GBAS Landing System		
	15:40	Coffee Break		
		Technical Session ATM Modeling (2)	N. Takeichi	Tokyo Metropolitan
		<u></u>	rancioni	University
				· · · · · · · · · · · · · · · · · · ·
EN-A-024	15:55	From Perfect to Possible: Two Trajectory Based	J. Rataj	DLR
		Operation Concepts for Future Terminal Manoeuvring		
		Areas		
EN-A-044	16:20	Optimal location of temporary military zones within civil	N. WANG	Université de
		aviation traffic		Toulouse
EN. 4 OFF	46.45		A 11	
EN-A-055	16:45	Cost Index Estimation via Optimization based Trajectory	A. Harada	Kochi University of
		Prediction		Technology
EN-A-058	17.10	A Possibility of Continuous Descent Operation in the	T. Wakayama	Kochi University of
LIV A-030	17.10	Congested Airspace	ii wakayama	Technology
		23gustau / Mupuco		. 56.11101097

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The rooms open 9:05.

DAY3 Room 3

Paper ID	Time	Title	Presenter / Chair	
·		Technical Session Aviation Safety	S. Nagaoka	ENRI
EN-I-087	9:20	What will air traffic controllers (ATCOs) be doing in the future, in a more automated ATM environment?	K. Moebus	skyguide – swiss air navigation services, ltd.
EN-A-022	9:45	Analysis of Positive and Negative Effects of Salience on the ATC Task Performance	H. Yoshida	The University of Tokyo
EN-A-028	10:10	Aircraft Safety Analysis using Generalized Polynomial Chaos	J. Diepolder	Technical University of Munich
EN-A-029	10:35	Preliminary analysis on safety assessment for off-set routes	J. Han	The Korea Transport Institute (KOTI)
EN-A-059	11:00	Performance Analysis of Shenzhen Airlines' 4D/15 Tracking Demonstration	Z. Zhang	Civil Aviation University of China (CAUC)
	11:25	Lunch Break		(6/100)
	13:45	Coffee Break		
		Technical Session Aviation Weather	T. Yoshihara	ENRI
EN-A-048	14:00	ATM Performance Analysis considering Minimum Climatology Impact Trajectories	D. Gonz´alez-Arribas	Universidad Carlos III de Madrid
EN-A-073	14:25	Robust Optimal Trajectory Planning under Uncertain Winds and Convective Risk	D. Gonz´alez-Arribas	Universidad Carlos III de Madrid
EN-I-085	14:50	Development of 3D Rapid Scanning High Resolution X-Band Phased Array Weather Radar	T. Kashiwayanagi	Japan Radio Co., Ltd.
	15:40	Coffee Break		
		Technical Session CNS Systems	D. Kuegler	DLR
EN-A-037	15:55	Estimation of 3-dimensional location and velocity using range with bias error and Doppler measurements	Y. Kosuge	ENRI
EN-A-072	16:20	Automatic Detection of Airport Runway Area Based on Super-Pixel PolSAR Image Classification	P. Han	Civil Aviation University of China
EN-I-052	16:45	French DSNA approach to CNS rationalization & evolution	J.M.Loscos	DSNA/DTI