EIWAC 2010 Program
Venue: Akihabara Convention Hall (Tokyo)

(October 12, 2010)

Akihabara UDX Building

Nov. 10

	Plenary Session	5B-3	UDX	
9:30	Registration			
10:00	Opening Session			
10:30	Update of SESAR project P. Hecker (SESAR JU)			
11:05	CNS/ATM R&D Activities in Korea D. M. Kim(KARI)			K. Yamamoto
11:40	Paving the Way for the Future Air Traffic Management Francisco Saez Nieto (Spanish Aviation Authority)			
12:15	Lunch			
13:30	Update of the ENRI Long term R & D Vision K. Yamamoto(ENRI)	Secretariat		
14:05	CARATS : Long-Term Vision of Future Air Traffic Systems in Japan T. Nakada (JCAB)			K. Nakatsubo
14:40	Boeing Air Trffic Management Overview and Status M. Harris (Boeing)			
15:15	Poster Session		Poster Session & Coffee	
16:15	Panel Discussion Panelists: S. Suzuki (U. of Tokyo), P. Hecker (U. of Braunschweig) T. Inagaki (U. Tsukuba), K. Ito (JCAB) Y. Hirao (Nagaoka U. of Technology) Francisco Saez Nieto (Spanish Aviation Authority)			K. Yamamoto
17:45				
18:00			Welcome Session	S. Ozeki
21:00				

Nov. 11 EIWAC 2010

Technical Session (day 1)

	5A-1,2 (80)	5B-1,2 (80)	5B-3 (30)	
9:00	Registration			
	Nav 1	***Trajectory***	***Safety***	
9:30	navigation 1 gnss #33	trajectory management 1 #23	safety 1 #44	
	navigation 2 # 42	trajectory management 2 #39	safety 2 #32	
	navigation 3 #47	trajectory management 3 #24	safety 3 #49	
	navigation 4 #46	trajcectory management 4 #103	safety 4 #110	
11:30	**S. Ozeki**			
	Surveillance 1	***Capacity 1***	***Human Factor 1***	
12:30	suveillence 1(MLAT) #105	capacity 1 #12	humanfactor 1 #19	
	suveillence 2(TIS-B) # 113	capacity 2 #11	human factor 2 #111	
	suveillence 3 (Sat ADS-B) #15	capacity 3 #2	human factor3 #114	
14:00	**K. Kageyama**			
	Surveillance 2	***Modeling***	***Human Factor 2***	
14:30	suveillence 4 (WX) # 8	Modeling 1 #37	human factor 4 #34	
	suveillence 5 (WX) # 48	Modeling 2 #20	human factor 5#31	
15:30		Modeling 3 #29	human factor 6#22	
		Modeling 4 #102	human factor 7#18	
16:30	**Y. Fukuda**			

K. Ito — **S. Nagaoka** — **T. Koga** — **C. Gwiggner** — **H. Miyazaki** — **T. Tsuchiya**

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Nov. 12 EIWAC 2010

Technical Session (day 2)

	5A-1, 2	5B-1,2	5B-3	
9:00	Registration			
		Plenary Session		
9:30		Upadate of NextGen project J. Markle (FAA)		**K. Yamamoto**
10:10	***Com 1***	***Airport 1***		
10:30	communication &Info. share. 1 # 9	airport 1 #1		
	communication &Info. share2 #14	airport 2 #26		**N. Yonemoto**
11:30				
	Nav 2	***Capacity 2***		
12:30	navigation 5 (GBAS) #5	capacity 4 #7		
	navigation6 (GBAS) #107	capacity 5 #10		**M. Harigae**
	navigation7 (SBAS) #30	capacity 6 #106		
14:00	navigation 8 (QZSS) # 108			
14:30				
	Com 2	***Airport 2***		
15:00	communication &Info. share3 #27	airport 3 #4		
	communication &Info. share 4 #28	airport 4 #25		**S. Fukushima**
	communication &Info. Share 5 (DAPS) #109	airport 5 #104		
16:30	**Closing Address**			**K. Nakatsubo**

J. Kitaori — **M. Kudo** — **Y. Sumiya**

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EIWAC 2010 Technical Sessions and speakers

Oct 12 2010

Paper No.	Speaker	ATM Modeling	Affiliation	4
37	Sara Bagassi	Airborne Conflict Modeling and Resolution for UAS Insertion in Civil Non-Segregated Airspace	University of Bologna	Italy
20	Tasos Nikoleris	A Queueing Model with Scheduled Arrivals under 4D Trajectory-Based Operations	U. of California, Berkeley	USA
29	Yanjun Wang	Fluctuation Scaling in the Air Traffic Controller Communication Activities	Nanjing University of Aeronautics & Astronautics	China
102	Claus Gwiggner	Study of Traffic Synchronization	ENRI	Japan

	Speaker	Trajectory Management	Affiliation	4
23	Daniel Delahaye	Aircraft Cinflict Resolution by Generic Algorithm and B-Spline Approximation	ENAC	France
39	Greg McDonald	Facilitation of Continuous Descent Arrivals with Improved Efficiency and Predictability by the Use of Tailored Descent Wind Forecasts	Airservices Australia	Australia
24	Roland Winkler	Clustering radar tracks to evaluate efficiency indicators	DLR	Germany
103	Yutaka Fukuda	Development of Trajectory Prediction Model	ENRI	Japan

	Speaker	Airport Management	Affiliation	5
1	Florian Piekert	Potential Impact of Data Variance on the Prediction of Key Performance Indicators (KPI) as a Decision Variable for Airport Pretactical Decision Making within a Total Airport Management (TAM) Airport Operation Center (APOC)	DLR	Germany
26	Matthias Groppe	Field Observations During Aircraft Turn-Round Process: Applying a Qualitative Cognitive Model	CRANFIELD University	UK
4	Hitham Fakih	Analyzing the Impact of the European Gates Concept on En-route Congestion	University of Žilina	Slovak
25	Michael Kreuz	Analyzing airlines potential cost savings when reducing delays in international air traffic	AT-One	Germany
104	Izumi Yamamda	An Analysis of Surface Traffic of Large Airport - Characteristics of Departure Aircraft Congestion -	ENRI	Japan

	Speaker	Traffic Capacity & Congestion Management	Affiliation	6
12	Jerry D. Welch	Validation of En Route Capacity Model with Peak Counts from the US National Airspace System	MIT Lincoln Lab.	USA
11	Xavier Ruiz-Hernandez	Airspace Design using a Workload Node-based GA	INECO TIFSA	Spain
2	Risquez, Jose Manuel	Designing 3D ATC Sectors by using a "Genetic Algorithm" - based methodology	INECO TIFSA	Spain
7	S. Marx	A Prototype of an pre-tactical Airport Centered Flow Management	Technische Universitaet Braunschweig	Germany

10	Paul N. Simon	Facilitating Free Flight Conflict Resolution using Nautical Minute Discretisation	Royal Melbourne Institute of Technology	Australia
106	Terumitsu Hirata	Runway Capacity Estimation for Haneda Airport with 4th Runway	ITPS	Japan

	Speaker	**Communication & Information Sharing**	Affiliation	5
9	Midori Tanino	Flight Object – A Component of Global Air Traffic Management	FAA	USA
14	Nathalie RICARD	The ESA Iris Programme – a new satellite communication system for Air Traffic Management ATM	ESA	Netherland
27	Tor Andr´e Myrvoll	Aeronautical satellite propagation channel characteristics using multiple antennas	SINTEF ICT	Norway
28	Bengt Holter	On the use of MIMO in aeronautical communications	SINTEF ICT	Norway
109	Tadashi Koga	Autonomous Decentralized Coordination Technology for Secondary Surveillance Radar (SSR) Mode S	ENRI	Japan

	Speaker	**Navigation (GNSS)**	Affiliation	8
33	Pornchai Supnithi	Diurnal and Seasonal Variation of Total Electron Content (TEC) at Chumphon and Bangkok, Thailand	King Mongkut's Institute of Technology Ladkrabang	Thailand
42	Matt Harris	Development of GBAS Ionosphere Anomaly Monitor Standards to Support Category III Operations	Boeing Commercial Airplanes	USA
47	Jiyun Lee	Estimation of GPS Receiver Inter-Frequency Bias for Operational Ionosphere Monitoring in GBAS	Korea Advanced Institute of Science & Technology	Korea
46	Toshiaki Tsuji	Study of INS-Aided GPS Tracking Performance under Simulated Ionospheric Scintillation Associated with Plasma Bubbles	JAXA	Japan
5	Thomas Feuerle	GBAS CAT II/III concepts for flexible approach procedures	Technische Universitaet Braunschweig	Germany
107	Susumu Saito	Impact of the low latitude ionosphere disturbances on GNSS studied with a three-dimensional ionosphere model	ENRI	Japan
30	Sam Pullen	Using SBAS to Enhance GBAS User Availability: Results and Extensions to Enhance Air Traffic Management	Stanford University	USA
108	Ken Ito	Highly-Accurate Positioning Experiment System Using QZSS at ENRI	ENRI	Japan

	Speaker	**Surveillance**	Affiliation	5
105	Hiromi Miyazaki	Evaluation Results of Airport Surface Multilateration	ENRI	Japan
113	Takuya Otsuyama	Development of TIS-B system for situantion awareness enhancement	ENRI	Japan
15	V. Lavrov	Global surveillance system based on 1090 E S ADS-B and satellite-transmitters.	Reshtnev ISS	Russia
8	A. Boundani	Improved radar coverage in Algeria, for a better integration of CNS / ATM concept	Saad Dahlab University of Blida	Algeria

48	Shanna Schoenhals	Enhancing Wake Vortex Surveillance Capacity Using Innovative Fusion Approaches	Technische Universitaet Braunschweig	Germany

Speaker	**Safety Research**	Affiliation	4
44 J. M. Loscos	Safety nets performance assessment: the encounter-model methodology as a cornerstone to provide quantified results for ACAS and STCA	DSNA/DTI	France
32 Eduardo Garcia	High Density en Route Airspace Safety Levl and Collision Risk Estimation Based on Stored Aircraft Tracks	Universidad Politécnica de Madrid (UPM)	Spain
49 C. E. Hartman	Risk Compensation in General Aviation: The Effect of Ballistic Parachute Systems	U. Maryland	USA
110 Ryota Mori	Safety Analysis for Reduction of Longitudinal Time Separation Minima on Oceanic Routes	ENRI	Japan

Speaker	**Human factors**	Affiliation	7
19 J. Bryan Burrows-McElwain	Understanding the effect of alcohol consumption by Airline Passengers in Safety Sensitive Aisles	U. Maryland	USA
111 Kakuich Shiomi	Development of "cereameter"	ENRI	Japan
114 Eduardo Garcia	Introduction to the SESAR WP E Research Network: HALA! (Higher Automation Levels in ATM)	Universidad Politécnica de Madrid (UPM)	Spain
34 Jeffrey Homola	A Controller-In-The-Loop Simulation of Ground-Based Automated Separation Assurance in a NextGen Environment	San Jose State Univ./ NASA Ames Research Center	USA
31 Joseph N.D. Dodoo	Human factors in General Aviation: FAA and ASF efforts to mitigate accidents and fatalities	U. Maryland	USA
22 Stephan Kocks	An integrated Wake Vortex Visualization Concept for existing Cockpit Display Systems	Technische Universitaet Braunschweig	Germany
18 J. Bryan Burrows-McElwain	Human factors in general aviation flight instruction authenticity: A measure of student's perceived satisfaction.	U. Maryland	USA