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OpenSky Report 2016: Facts and Figures on SSR Mode S and ADS-B Usage

Matthias Schaefer (University of Kaiserslautern)

Martin Strohmeier (University of Oxford, United Kingdom)

Matthew Smith (University of Oxford, United Kingdom)

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Dan Peknik (Plural Designs, USA)

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Chair: Chris Wargo (Mosaic ATM, Inc., USA)

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Chair: Brandon Van Acker (DOT/Volpe Center Ground Based Sense and Avoid Research, USA)

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Xi Zhu (Beihang University, P.R. China)

Jingpeng Liu (Beihang University, P.R. China)

Yuanyuan Qian (Beijing Capital International Airport, P.R. China).....N/A

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Nicolas Barnier (École Nationale de l'Aviation Civile, France)

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Roberto Sabatini (RMIT University, Australia)

Terry Moore (The University of Nottingham, United Kingdom)

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Subramanian Ramasamy (RMIT University, Australia)

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Zhou Yun Dai (Shanghai Jiao Tong University, P.R. China).....N/A

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Chair: Chris Wargo (Mosaic ATM, Inc., USA)

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Chair: Husni Idris (TASC an Engility Company, USA)

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Zhiqiang Zhu (AVIAGE System, P.R. China)

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Xiaomu Shi (Tsinghua University, P.R. China)

Hong Wu (Tsinghua University, P.R. China)

Chao Zhang (Tsinghua University, P.R. China).....N/A

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Vehicle Technology 2 F

Room: Big Sur B

Chair: Thomas Becher (MITRE, USA)

Design, Development and Implementation of a UAV flight controller based on a State Machine approach using a FPGA embedded system

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Jason Montoya (Universidad Don Bosco, El Salvador)

Fredy Jarquin (Universidad Don Bosco, El Salvador)

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Xingyu Xiang (Intelligent Fusion Technology, Inc, USA)

Zhonghai Wang (Intelligent Fusion Technology, Inc, USA)

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Genshe Chen (Intelligent Fusion Technology, Inc, USA)

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Pablo Royo (Technical University of Catalonia (UPC) · BarcelonaTech & Castelldefels School of Telecommunications and Aerospace Engineering, Spain)

Cristina Barrado (Universitat Politècnica de Catalunya, Spain)

Raúl Cuadrado Santolaria (Technical University of Catalonia (UPC) · BarcelonaTech, Spain)

Enric Pastor (Technical University of Catalonia (UPC) · BarcelonaTech, Spain)

Felix Barrao (MAGline Composites y Sistemas SL, Spain)

Antoni García (MAGline Composites y Sistemas SL, Spain)1019

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Room: Caramel A

Chair: Mike Lane (Ministry of Defence, United Kingdom)

Leveraging Driverless Car Investment in Next Generation Integrated Modular Avionics (IMA)

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Yu Chen (Binghamton University, USA)

Douglas Summerville (State University of New York at Binghamton, USA).....1028

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Laurence H Mutuel (Sierra Nevada Corporation, USA)

Vincent Brindejonc (Thales Air Systems, France).....1037

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Hao Rong (Shanghai Avionics Corporation, P.R. China)

Qingfan Gu (Science and Technology on Avionics Integration Laboratory, P.R. China).....N/A

Avionics-Based GNSS Integrity Augmentation Synergies with SBAS and GBAS for Safety-Critical Aviation Applications

Roberto Sabatini (RMIT, Australia)

Terry Moore (The University of Nottingham, United Kingdom)

Chris Hill (The University of Nottingham, United Kingdom).....1044

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Room: Golden State AB

Chair: James Little (LS Technologies LLC, USA)

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Ganesh Pai (SGT, Inc. & NASA Ames Research Center, USA)1054

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Jeffrey Homola (NASA Ames Research Center, USA)

Thomas Prevot (NASA Ames Research Center, USA)

Joey Mercer (NASA Ames Research Center, USA)

Nancy Bienert (NASA Ames Research Center, USA)

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Room: Santa Barbara

Chair: Rainer Koelle (Lancaster University & Eurocontrol, Directorate Single Sky, ATM Security, Belgium)

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Zhifan Zhu (Stinger Ghaffarian Technologies Inc. at NASA Ames Res Ctr, USA)

Nikolai Okuniek (German Aerospace Center, Germany)

Ingrid Gerdes (German Aerospace Center, Germany)

Sebastian Schier (German Aerospace Center, Germany)

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Richard Coppenbarger (NASA Ames Research Center, USA)

Eric Chevalley (NASA Ames Research Center & SJSUF, USA)

Amir Farrahi (UC Santa Cruz, USA)

Thomas Kozon (UC Santa Cruz, USA)

Yoon Jung (NASA Ames Research Center, USA)

Matt Kistler (Mosaic ATM, USA)

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Chair: Carlos C. Insaurralde (Teesside University, United Kingdom)

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Chair: Timothy Waldron (WingTrack Consulting, USA)

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Christoph Mohlenbrink (SJSUF/NASA Ames Research Center, USA)

Connie Brasil (SJSUF/NASA Ames Research Center, USA)

Paul Lee (NASA Ames Research Center, USA)

Kostas Speridakos (SJSUF/NASA Ames Research Center, USA)

Nancy Smith (NASA Ames Research Center, USA)

Hyo-Sang Yoo (SJSUF/NASA Ames, USA)

Faisal Omar (NASA Ames Research Center, USA)

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Chair: Aditya Saraf (ATAC Corporation, USA)

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Ramon Dalmau (Technical University of Catalonia (UPC), Spain)

Ronald Verhoeven (Netherlands Aerospace Centre, The Netherlands)

Nico de Gelder (Netherlands Aerospace Centre, The Netherlands)

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Chair: Ganesh Pai (SGT, Inc. & NASA Ames Research Center, USA)

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Justin Fuller (University of Tulsa, USA)

Loyd Hook, IV (University of Tulsa, USA)

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Francesco Cappello (RMIT University, Australia)

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Subramanian Ramasamy (RMIT University, Australia)

Yixiang Lim (RMIT University, Australia)N/A

A Reliable System Design for Nondeterministic Adaptive Controllers in Small UAV Autopilots

Khashayar Niki Maleki (University of Tulsa, USA)

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Michael Finke (German Aerospace Center (DLR), Germany)

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Meilin Schaper (German Aerospace Center (DLR), Germany).....1301

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