



SCHWEIZERISCHE VEREINIGUNG FÜR FLUGWISSENSCHAFTEN
ASSOCIATION SUISSE DES SCIENCES AERONAUTIQUES
SWISS ASSOCIATION OF AERONAUTICAL SCIENCES

ICAS International Council of
the Aeronautical Sciences

ICAS / SVFW Workshop 2017

Intelligent and Autonomous Technologies in Aeronautics – Software Engineering and Unmanned Aerial Systems

Monday, 11th September 2017

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| 08:00 | Registration |
| 08:30–18:00 | Workshop |
| 19:00–21:30 | BBQ Dinner at ZHAW Campus
with Spouses and Guests |

Tuesday, 12th September 2017

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|-------------|--------------------|
| 08:30–12:20 | Workshop |
| 12:20–12:30 | Concluding Remarks |

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Intelligent and Autonomous Technologies in Aeronautics – Software Engineering and Unmanned Aerial Systems

Monday, 11th September 2017

08:30–08:40	Welcome & ICAS Overview Dr. Susan Ying, ICAS President, COMAC Chief Integrating Officer, Shanghai, China
08:40–08:50	Workshop Overview & Introduction Dr. Shinji Suzuki, ICAS Programme Committee Chair, Professor, The University of Tokyo, Tokyo, Japan
08:50–08:55	Introduction ZHAW Prof. Dr. Jürg Meier, Head of Section Mechanical Engineering, ZHAW, Winterthur, Switzerland
08:55–09:00	Announcement & Meeting Logistics Mr. Axel Probst, ICAS Executive Secretary, Bonn, Germany
09:00–09:50	Software Engineering in Aeronautics Dr. Paul Nielsen, CEO of SEI (Software Engineering Institute), Carnegie Mellon University, USA

09:50–10:10	Coffee Break
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10:10–10:40	What ANA Expects for the Progress on Intelligent Data Analysis for Aircraft Maintenance Mr. Toshihiko Noguchi, All Nippon Airways, Vice President, Engineering & Maintenance Center, Tokyo, Japan
10:40–11:10	Digital Flight Engineer: Autonomy for Pilot Assistance Dr. Jae-Woo Choi, Aurora Flight Sciences, Lucerne, Switzerland
11:10–11:40	H2020 VISION: EU-Japan Collaborative Research on Intelligent Flight Control Systems Dr. Yoko Watanabe, ONERA, France
11:40–12:10	Can AI Pass CPL (H) Skill Test Mr. Luuk van Dijk, Founder and CEO, Daedalean AG, Zurich, Switzerland

12:10–14:00	Lunch
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14:00–14:30	From Industrial Big Data to Artificial Intelligence at Airbus Mr. Ronny Fehling, Head of Data-Driven Technologies, Airbus, Germany
14:30–15:00	On the Horizon for the Global Drone Ecosystem – from Concept to Practicality Mr. Sebastian Babiarez, Head of Strategic Business Development, CTO Office, Airmap, USA
15:00–15:30	Collision Avoidance for Remotely Piloted Systems Mr. Johan Pellebergs, SAAB, Sweden

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15:30–16:00	Integrating Drones into Civil Air Traffic – Challenges and Concepts Dr. Peter Lenhart, Head of Human Factors Engineering, Center of Aviation, ZHAW, Switzerland
16:00–16:20	Coffee Break
16:20–16:50	Meteodrones – Moving Towards an Operational Drone Network for Weather Measurements Dr. Martin Fengler, CEO Meteomatics, Switzerland
16:50–17:20	Aerial Object Tracking from an Airborne Platform Dr. Daniel Ambuehl, RUAG Aviation, Switzerland
17:20–18:00	Discussion, Moderator: Dr. Gunnar Holmberg, SAAB, Sweden
19:00–21:30	Dinner BBQ at ZHAW Campus with Spouses and Guests

Tuesday, 12th September 2017

08:30–08:40	Summary of Day 1 and short Outlook of the Schedule until Noon Dr. Shinji Suzuki, ICAS Programme Committee Chair, Professor, The University of Tokyo, Tokyo, Japan
08:40–09:20	High Fidelity Small UAS Collision Damage Modeling Strategies and Frangibility Studies Dr. Javid Bayandor, Associate Professor, Virginia Tech, College of Engineering, USA
09:20–09:50	FAA UAS Regulation Mr. Ian Ross, FAA, USA
09:50–10:10	Coffee Break
10:10–10:40	The Development of the Future European Rules on Unmanned Aircraft – A Risk Based and Proportional Approach Mr. Antonio Marchetto, RPAS Technologies Expert EASA, Germany
10:40–11:10	Remotely Piloted Aircraft System (RPAS) Regulations in Australia Dr. Cees Bil, Associate Professor, RMIT University, Melbourne, Australia
11:10–11:40	SORA – Risk Assessment for Unmanned Airborne Mobility Mr. Markus Farner, Manager Innovation and Advanced Technology, Swiss Federal Office for Civil Aviation, Switzerland
11:40–12:20	Discussion, Moderator: Dr. Cees Bil, RMIT, Australia
12:20–12:30	Workshop Conclusions Dr. Susan Ying, ICAS President, COMAC, Chief Integration Officer, Shanghai, China

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International Council of
the Aeronautical Sciences

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The objectives of the International Council of the Aeronautical Sciences (ICAS) are to provide opportunities for the exchange of knowledge, discussion of aeronautical research, technology, and related issues and to promote international awareness, cooperation and collaboration.

Established in 1957, ICAS supports the work of about 30 professional Member Societies from around the world and, through its Associate Membership, engages with aerospace companies, national laboratories and educational institutions. ICAS holds a biennial Congress covering all aspects of aeronautical science and technology and their application to both military and civil aviation, the next being organised in Belo Horizonte, Brazil. Held in September of even-numbered years in an aeronautically relevant venue, the Congress attracts more than 700 delegates with a programme of over 600 papers and invited lecturers. All papers are included in an electronic publication available at the Congress. In addition, the ICAS electronic archive, containing over 5000 documents, is freely available to the world-wide aeronautics community.

The Swiss Organisation of Aeronautical Sciences (SVFW) promotes aeronautical studies in Switzerland. It provides a platform for more than 250 experts in the field of aeronautics and aerospace and focuses on science, technology, research development and innovation. The organisation functions as a link to other international organisations such as ICAS (International Council of Aeronautical Sciences) and CEAS (Council of European Aerospace Societies). The SVFW organises lectures on scientific topics from the field of aeronautics and aerospace, such as flight mechanics, aviation medicine, air law, training and past developments. The SVFW also awards the Jakob Ackeret Prize to young researchers.

For more information visit: www.svfw.ch

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