

Conference Agenda

TUESDAY, 23. June 2020

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| 08:30 - 09:00 h | Exhibition opens | |
| 09:00 - 09:30 h | Conference Opening 1. Renaud Urli (President EST): WELCOME ADDRESS. 2. Michael Niewöhner (VP EST): HOW DOES ALL THIS WORK? VIRTUAL ETTC 2020. | |
| 09:30 - 10:00 h | Session Moderation: Renaud Urli (Airbus Helicopters) | Session Moderation: Philipp Wager (Airbus Defence & Space) |
| | JIAN SONG (Guangzhou Zoweetech Ltd): Distance Measurement for Intrusive Objects on Railway Tracks | DANIEL FÖRDER (imc Test & Measurement GmbH): Robust and Flexible Flight Test Instrumentation for Wireless and Wired Measurements |
| 10:00 - 10:30 h | LEANDER B. HÖRMANN (Linz Center of Mechatronics GmbH - LCM): Evaluation of Energy Harvesting Devices for Industrial Applications | OSCAR GIGATO (Airbus Defence & Space): Using Single Board Computers in FTI Console |
| 10:30 - 11:00 h | Short Break | |
| 11:00 - 11:30 h | MATTHIAS HOSS (iMAR Navigation GmbH): Innovative Inertial Measurement Data Acquisition and Processing for Aircraft Surveying up to Airborne Gravimetry | GHISLAIN GUERRERO (Safran Data Systems SAS): A New Modular Electronics Approach Applied to Instrumentation Units |
| 11:30 - 12:00 h | HANNES KURZ (senseon GmbH): SAW Temperature Sensing for Automotive Test Bench Systems | JOSE-ANTONIO GONZALEZ-PASTRANA (Airbus Defence & Space): Sensors and Equipment MetaRepresentation in Flight Test Airbus Defence and Space |
| 12:00 - 12:30 h | THOMAS KISSINGER (Cranfield University): Dynamic Measurement of Strain and Shape on a Rotating Helicopter Rotor Blade Using Optical Fibre Sensors | PATRICK QUINN (Curtiss-Wright Avionics & Electronics): Addressing the Babel's Tower of FTI Standards in a Network Environment |
| 12:30 - 14:30 h | Lunch Break | |
| 14:30 - 15:00 h | Session Moderation: Pedro Rubio (Defence & Space) | |
| | TIANXIANG LAN (TU Braunschweig): Machine-Learning-Based Position Error Estimation for Satellite-Based Localization Systems | |
| 15:00 - 15:30 h | GASPER SKVARC BOZIC (Max-Planck-Institut für extraterrestrische Physik): Intelligent Space Wire Router with Multilevel Priority Arbitration and Multicast Packet Transmission | |
| 15:30 - 16:00 h | MUSTAFA UFELEK (Turkish Aerospace Industries Inc.): Real-Time Data Visualization in Telemetry Systems | |
| 16:00 - 16:30 h | Short Break | |
| 16:30 - 17:00 h | KAREN VON HÜNERBEIN (Lange Electronic GmbH): Simulation tools to assess the impact of Wind turbines on RADAR and other electromagnetic signals | |
| 17:00 - 17:30 h | DAVID N. KORTICK (AstroNova Inc.): The Latest in Telemetry Data Visualization Solutions | |
| 17:30 - 18:00 h | Exhibition closes at 18:00h | |

all times CET (UTC+2)

WEDNESDAY, 24. June 2020

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| 08:30 - 09:00 h | Exhibition opens | |
| 09:00 - 09:30 h | Session Moderation: Renaud Urli (Airbus Helicopters) | Session Moderation: Pedro Rubio (Airbus Defence & Space) |
| | <i>DILLI BABU MOHAN (Indian AirForce):</i> Eye Gaze Tracking Applications in Aviation as Cockpit Sensor | <i>MIGUEL AREVALO NOGALES (Airbus Defence & Space):</i> Beholder, automated data validation in Flight Test |
| 09:30 - 10:00 h | <i>CHRISTIAN HERBEPIN (Airbus Helicopters):</i> Virtualization of avionic signals & digital buses on Ethernet | <i>FRANCISCA COLL HERRERO (Airbus Defence & space):</i> BMAD Automatic detection of flight manoeuvres using walvets |
| 10:00 - 10:30 h | <i>SANTIAGO RAFAEL LOPEZ GORDO (Airbus Defence & Space):</i> Vistas architecture implementation in a multi-system integration bench | <i>CHRISTOPH GEBHARDT (CADFEM GmbH):</i> Virtual Sensors for Optimal Operation of a Hydro Power Plant |
| 10:30 - 11:00 h | Short Break | |
| 11:00 - 11:30 h | <i>QUENTIN DEMOULIN (Airbus Commerical):</i> New flexible photogrammetry instrumentation for estimating wing deformation in Airbus aircrafts | <i>RODRIGO LOPEZ PARRA (Airbus Defence & Space):</i> Machine Learning assistant for aircraft acceptance |
| 11:30 - 12:00 h | <i>ISRAEL LOPEZ HERREROS (Airbus Defence & Space):</i> Displays Validation Based on Image Processing | <i>GERHARD SPITZ (AXON-Systems GmbH):</i> E-drive ready telemetry solutions - challenges, innovations, and solutions |
| 12:00 - 12:30 h | <i>RUSSEL MOORE (Curtiss-Wright Avionics & Electronics):</i> Airborne FTI Camera Performance | <i>GONÇALO VALADAS (CriticalSoftware):</i> Automated closed loop testing of cyber-physical systems |
| 12:30 - 14:30 h | Lunch Break | |
| 14:30 - 15:00 h | Session Moderation: Robert Huber (Airbus Defence & Space) | Session Moderation: Pedro Rubio (Airbus Defence & Space) |
| | <i>VINCENT MARIE (NEXEYA France):</i> BSS / BSC with Heterogeneous Sources | <i>DIEGO ROSES SANCHEZ (Airbus Defence & Space):</i> Job Process Architecture Based On PostgreSQL Database |
| 15:00 - 15:30 h | <i>ALAIN THOMAS (SAFRAN DATA SYSTEMS):</i> SOQPSK-TG STC: new decoding scheme for a higher bit rate and a better budget link | |
| 15:30 - 16:00 h | <i>PAUL COOK (Curtiss-Wright Avionics & Electronics):</i> Transitioning to C-band in the US and the challenges and opportunities presented by modern tri-band transmitters | |
| 16:00 - 16:30 h | Short Break | |
| 16:30 - 17:00 h | <i>RAFAEL PINTO PRATA (ANATEL):</i> Protecting satellite downlink Tracking and Telemetry channels by means of IMT-2020 5G Base Stations Protection Belts surrounding Satellite TT&C Earth Stations operating in the 40 GHz Band | |
| 17:00 - 17:30 h | <i>ACHILLES KOGIANTIS (Perspecta Labs):</i> Cellular 4G LTE Aeronautical Mobile Telemetry Flight Test Results | |
| 17:30 - 18:00 h | Exhibition closes at 18:00h | |

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| Session 1 | Virtual Testing | Session 2 | Imaging Video |
| Session 3 | Big Data | Session 4 | Spectrum management & Coding |

THURSDAY, 25. June 2020

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| 08:30 - 09:00 h | Exhibition opens | |
| 9:00 - 12:30 h | Exhibition is open | EXHIBITION ONLY |
| 12:30 - 13:30 h | | Lunch Break |
| 13:30 - 18:00 h | | <p>VIDEO SHORT COURSE by SAFRAN</p> <p>Video Technology - Fundamentals & Interfaces</p> <p>Video Compression - Principles</p> <p>Examples of video acquisition scenarios in FTI applications</p> <p>Advanced Video Topics - Low Latency, Bit Rate Reduction, Frame Rate, 4k/UHD, Scaling, Picture-in-Picture, ARINC818, ...</p> |
| 16:30 - 18:00 h | | Exhibition closes at 18:00h |

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