

## ettc2018 - Conference Schedule

Nuremberg, Germany

Monday			Park Hotel, Bahnhofstr. 5, 90402 Nürnberg		
25.06.2018	09:30	17:00	Short Course - IRIG106 Ch23 MDL		
			Agenda	<b>Dauer</b>	
	09:30		1 - Welcome and Introduction	0:15	
	09:45		2 - MDL Roadmap	0:30	
	10:15		3 - MDL Overview	0:45	
	11:00		Break	0:15	
	11:15		4 - MDL Examples Walkthrough	1:00	
	12:15		Lunch	1:30	
	13:45		5 - MDL Scenarios	1:30	
	15:15		Break	0:15	
	15:30		6 - MDL Scenarios	1:00	
	16:30		7 - Tools, Questions, and Conclusion	0:30	
	17:00		End		

Tuesday			Room 1 - ettc	Room 2 - ettc	Room 3 - ettc
26.06.2018	09:00	11:00	Registration & Weisswurst Frühstück		
	11:00	11:30	<b>Opening Ceremony</b>		
	11:30	12:00	Jan-Hendrik Boelens, CTO at Volocopter GmbH		
	12:00	12:30	Florian Schwensfeier, Head of Development Audi connect car2x & Dataplattform, Dataanalytics at AUDI AG		
	12:30	13:30	Lunch	Lunch	Lunch
			<b>1. Session</b> <b>Sensors</b> <b>Chairman: Steve Lyons, QinetiQ, Ceredigion (Great Britain)</b>	<b>2. Session</b> <b>Modulation &amp; Coding</b> <b>Chairman: Philipp Wager, Airbus Defence and Space (Germany)</b>	<b>3. Session</b> <b>Data Management Standards</b> <b>Chairman: Mahmut Kürsad Arpacioğlu, TAI Turkish Aerospace Industries, Inc. (Turkey)</b>
	13:30	14:00	(10.912) 1.1 New high-temperature ICP®-vibration sensors with overload protection to improve measurement uncertainty and reduce measurement errors S. Meyer, PCB Synotech GmbH, Hückelhoven (Germany)	(10.906) 2.1 Transhorizon over-sea propagation tests with Line-of-Sight Lygarion® Data Link technology A. Fihel, Airbus Defence and Space, Elancourt (France)	(10.930) 3.1 Next Generation Vehicle Diagnostics J. Supke, emotive GmbH & Co. KG, Ostfildern (Germany)
	14:00	14:30	(10.967) 1.2 High precision Wireless Chipless Telemetry of Temperature T. Aftab, T. Schaechtle, L. Reindl, Department of Microsystems Engineering (IMTEK), University of Freiburg, Freiburg (Germany)	(10.952) 2.2 Telemetry Standards That Improve Link Availability K. Temple, Air Force Test Center, Edwards AFB (USA)	(10.935) 3.2 Configuring Applications based in XdefML J. A. González Pastrana, Airbus Defence and Space, Getafe (Madrid) (Spain)
	14:30	15:00	(10.961) 1.3 An overview of the BLADE Flight Test Instrumentation B. Mouchet, AIRBUS France, Toulouse (France)	(10.964) 2.3 History and Advantages of Best Source Selection for Today's Modern Telemetry Applications Along With the Benefits of Different Approaches S. Nicolo, GDP Space Systems, Horsham, Pennsylvania (USA)	(10.951) 3.3 A JSON transactional data server for flight tests O. Gigato Rodriguez, Airbus Defence and Space, Getafe (Madrid) (Spain)
	15:00	15:30	(10.971) 1.4 Rotor Loading Test with Wireless Transmitting M. Yaping, Flight Test Establishment of China, Xi'an (China)	(10.916) 2.4 Launch Vehicle Electrical Power System Rocket-ground Wireless Interface Prototype J. Zhang, Beijing Institute of Astronautical, Fengtai Strict, Beijing (China)	(10.966) 3.4 Vistas WG#97 a new Eurocae standard allowing the Virtualization of avionic signal & digital buses on Ethernet C. Herbepin, Airbus Helicopters, Marignane (France)
15:30	16:00	Coffee break	Coffee break	Coffee break	
		<b>1. Session</b> <b>Sensors</b> <b>Chairman: Steve Lyons, QinetiQ (Great Britain)</b>	<b>4. Session</b> <b>RF Design</b> <b>Chairman: Mark McWhorther, Lumistar Inc. (USA)</b>	<b>5. Session</b> <b>Time-Space position technologies</b> <b>Chairman: Pilar Vicaria Torralbo, Airbus Defence and Space (Spain)</b>	
16:00	16:30	(10.905) 1.5 Weak Lidar-signal Extraction for Vibration Measuring of Spacecrafts C. Shengzhe, Beijing Institute of Astronautical, Fengtai Strict, Beijing (China)	(10.914) 4.1 Hardware Acceleration for Beamforming Algorithms based on Optimized Hardware-/Software Partitioning R. Schmidt, Technische Universität Chemnitz, Chemnitz (Germany)	(10.933) 5.1 Position tracking for outdoor sport events with GNSS and LoRa J.-M. Gruber, ZHAW, Winterthur (Switzerland)	
16:30	17:00	(10.915) 1.6 Smart Structures and Advanced Sensing Technologies in Space Vehicles S. Geng, Beijing Institute of Astronautical, Fengtai Strict, Beijing (China)	(10.945) 4.2 Experimental Measurements and Antenna Isolation for TETRA Communication System in Underground Mining and decline B. Battseren, Mongolian University of Science and Technology (Mongolia)	(10.944) 5.2 LORA based Biotelemetry System for Large Land Mammals K. C. Grande, Federal University of Technology Parana, Curitiba-PR (Brazil)	
17:00	17:30	(10.970) 1.7 Vibration Test of Airplane Moving Surface with Wireless Sensor H. Jing, Chinese Flight Test Establishment, Xi'an (China)	(10.918) 4.3 Design of Telemetry System for Low Orbit Satellite Based On Short Message Service of Beidou III Navigation Satellite System S. Ding, Beijing Space Quest LTD., Beijing (CHINA)	(10.959) 5.3 Testing Acquisition of GPS / GNSS Location and Velocity to Improve Safety in Autonomous Driving K. von Hünerbein, Lange-Electronic GmbH, Bielefeld (Germany)	

		Room 1 - ettc	Room 2 - ettc	Room 3 - ettc
<b>Wednesday 27.06.2018</b>		<b>International Consortium for Telemetry Spectrum (ICTS) Chairman: Guy Williams (for S. Hoschar) Air Force Test Center, Edwards AFB (USA)</b>	<b>6. Session Networks &amp; Architectures Chairman: Gérald Escriva, Safran Aircraft Engines (France)</b>	<b>7. Session AIM 2018 Chairman: Fritz Boden, Deutsches Zentrum für Luft- &amp; Raumfahrt e.V. (Germany)</b>
09:30	10:00	Region I Report (Europe/Africa) G. Mayer, GVM Consulting (Germany)	(10.917) 6.1 MIL-STD-1553B and it's potential for the future H. Plankl, Airbus Defence and Space GmbH, Manching (Germany)	(10.938) 7.1 Application of Fibre Optic Range-Resolved Interferometric Vibrometry to a Full-Scale Feathered Propeller in a Wind Tunnel S. James, Cranfield University, Cranfield (Great Britain)
10:00	10:30	Region II Report (The Americas) S. Penna, Embraer Sociedade Anonima (Brazil)	(10.963) 6.2 Sabotage and Disclosure of Flight Test and other reasons & methods to intercept, jam or spoof telemetry M. Niewöhner, COMPLETEER.NET, Hamburg (Germany)	(10.962) 7.2 Optoelectronics system for estimating measurement error of Image Pattern Correlation Technique T. Kirmse, DLR - Deutsches Zentrum für Luft- und Raumfahrt e. V. , Göttingen (Germany)
10:30	11:00	Coffee break	Coffee break	Coffee break
11:00	11:30	Region III Report (Asia/Pacific) T. Chalfant, COLSA Corporation Palmdale (USA)	(10.920) 6.3 Application of high reliability and high speed wireless sensor network system with wireless transceiver modules on space vehicle Y. Li, Beijing Institute of Astronautical, Fengtai Strict, Beijing (CHINA)	(10.940) 7.3 Application of Fibre Bragg Grating Sensors to a Stalled High Lift Wing E. Alcusa Saez, Cranfield University, Cranfield (Great Britain)
11:30	12:00	WRC-19 AMT Update T. Chalfant, COLSA Corporation Palmdale (USA)	(10.919) 6.4 Research on data communication network architecture for launch vehicle Y. Wang, China Academy of Launch Vehicle, Beijing (CHINA)	(10.955) 7.4 Optical Rotor-Blade Deformation Measurements using a Rotating Camera F. Boden, DLR - Deutsches Zentrum für Luft- und Raumfahrt e. V. , Göttingen (Germany)
12:00	12:30	Free Space Optics for Aeronautical Mobile Telemetry T. O'Brien, DoD Central Test and Evaluation Alexandria (USA)		
12:30	13:30	Lunch	Lunch	Lunch
13:30	18:00	Free for exhibition visit ettc & SENSOR+TEST		
19:00	23:00	Bavarian Dinner	Bavarian Dinner	Bavarian Dinner

Thursday 28.06.2018		Room 1 - ettc	Room 2 - ettc	Room 3 - ettc
		<b>European Telemetry Standardisation Committee (ETSC)</b> Chairman: Gilles Freaud, AIRBUS France (France)	<b>8. Session Spectrum Efficiency</b> Chairman: Timothy A. Chalfant, COLSA Corporation (USA)	<b>9. Session Data Acquisition</b> Chairman: Michael Tänzer, Airbus Defence and Space GmbH (Germany)
09:30	10:00		(10.941) 8.1 Integrated Network Enhanced Telemetry (iNET): Impact to the Telemetry Community for the ettc2018 T. Young, Air Force Test Center, Edwards AFB (USA)	(10.901) 9.1 Telemetric acquisition of vitality parameters and classification of cognitive condition via machine learning M. Bussas, Trout GmbH, Kassel (Germany)
10:00	10:30		(10.942) 8.2 Creating the Future Test Range Infrastructure: Vision for a Wireless Inter-Range Network Environment T. O'Brien, DoD Central Test and Evaluation, Alexandria (USA)	(10.910) 9.2 DASP Towards a Generic Data Acquisition Configuration System M. Gonzalez Martin, Airbus Defence and Space, Getafe (Madrid) (Spain)
10:30	11:00	Coffee break	Coffee break	Coffee break
11:00	11:30		(10.948) 8.3 Ninja Telemetry: AMT Survival in a Congested Spectral Environment T. A. Chalfant, COLSA Corporation, Palmdale (USA)	(10.913) 9.3 Integrated Data Acquisition Solutions for Aerospace Platforms with highly restrictive space and weight requirements and harsh environmental conditions P. Quinn, Curtiss-Wright Avionics & Electronics, Dublin (Ireland)
11:30	12:00		(10.965) 8.4 Telemetry Network Standards Overview T. Grace, NAVAIR, Patuxent River (USA), B. Abbott, San Antonio, TX (USA)	(10.950) 9.4 Design of a minimum weight/space/energy consumption instrumentation system F. Mertl, Airbus Helicopters Deutschland GmbH, Donauwörth (Germany)
12:00	12:30			(10.924) 9.5 Inflight-Measurements of Aircraft Undercarriage Vibration during Deployment J. Schwochow, DLR - Deutsches Zentrum für Luft- und Raumfahrt e. V. , Göttingen (Germany)
12:30	13:30	Lunch	Lunch	Lunch

			<b>10. Session Imaging &amp; Video Chairman: Christian Herbepin, Airbus Helicopters (France)</b>	<b>11. Session Networks &amp; Data acquisition Chairman: Sergio Duarte Penna, EMBRAER (Brazil)</b>	<b>12. Session Data Management Applications Chairman: Pedro Rubio, Airbus Defence and Space (Spain)</b>
13:30	14:00	(10.902) 10.1 A400M. Flares trajectories calculation from a chase aircraft F. Coll Herrero, Airbus Defence and Space, Getafe (Madrid) (Spain)	(10.946) 11.1 Intelligent Networked Flight Test Instrumentation for a new fighter prototype G. Martinez Moran, Airbus Defence & Space, Getafe (Spain)	(10.925) 12.1 Real Time Data Validation Embedded System for Flight Test Using Common Portable Devices N. Leite, Instituto de Pesquisas e Ensaios em Voo, Sao Jose dos Campos (Brazil)	
14:00	14:30	(10.903) 10.2 PARIS - Parallelisation Architecture for Real-time Image Data Exploitation and Sensor Data Fusion M. Nagler, Technische Universität Chemnitz, Chemnitz (Germany)	(10.969) 11.2 Progress and Future Perspectives in Airborne Communication Networking K.-D. Büchter, Bauhaus Luftfahrt e.V., Taufkirchen (Germany)	(10.931) 12.2 A case study in creating flexible FTI configuration software A. Cooke, Curtiss-Wright Avionics & Electronics, Dublin (Ireland)	
14:30	15:00	(10.936) 10.3 Applications of Machine Vision in Flight Test H. Ibaroudene, Southwest Research Institute, San Antonio (USA)	(10.929) 11.3 Design and Implementation of a Long Range Autonomous Wireless Critical System and its Application in Remote Hydroelectrical Infrastructure (Water Canals) for Risk Prevention and Hazards in Case of Hydraulic Canals Breaks. J. Fernández Huerta, Kunak Technologies S. L., Noain (Spain)	(10.932) 12.3 A process model for the discovery of knowledge in sensor-based indoor climate data D. Grüdl, Fraunhofer-Institut - IIS -, Coburg (Germany)	
15:00	15:30	(10.937) 10.4 Method and Software to Perform Pitch Drop L. E. Guarino de Vasconcelos, Instituto de Pesquisas e Ensaios em Voo, Sao Jose dos Campos (Brazil)	(10.956) 11.4 Real-Time access to past measurements using bidirectional communication (TmNS) H. Körtzel, Airbus Defence and Space GmbH, Manching (Germany)	(10.934) 12.4 Machine Learning-Driven Test Case Prioritization Approaches for Black-Box Software Testing R. Lachmann, IAV GmbH, Gifhorn (Germany)	
15:30	16:00	<b>Coffee break</b>			<b>Coffee break</b>
16:00	16:30	(10.958) 10.5 Low Level Flight Monitoring - High performance graphics R. López Parra, Airbus Defence and Space, Getafe (Madrid) (Spain)	(10.960) 11.5 System for aircraft data value demonstration S. Martin, AIRBUS OPERATIONS SAS, Toulouse (France)	(10.968) 12.5 Improving the efficiency of T&E for Aircraft and Mission Systems with more effective modeling and simulation P. Aves, J. Baxter, Analytical Graphics Incorporated, Exton, PA (USA)	
16:30	17:00	(10.926) 10.6 A new image recognition method based on space vehicle surface feature C. Hao, Beijing Institute of Astronautical, Fengtai Strict, Beijing (China)	(10.900) 11.6 How to connect a sensor to the Internet T. Schildknecht, Schildknecht AG, Murr (Germany)	(10.907) 12.6 A Deep Learning Based System for Telemetry Accuracy Evaluation D. Zhang, Beijing Institute of Astronautical, Fengtai Strict, Beijing (China)	



Exhibition parallel to

