Programme Day 1 - 2018 DGON Inertial Sensors and Systems			
Tuesday, September 11, 2018			
8:00 9:00	Registration Welcome	Peter Hecker TU Braunschweig, Germany	
	Session 1: Optical gyroscopes - Chairmain: tbd.		
9:20	Sensitivity enhancement of a mode-locked ring laser gyroscope by giant intracavity dispersion	Matthias Lenzner Lenzner Resarch LLC, USA	
9:45	Improvements to signal processing and component miniaturization of compact resonator fiber optic gyroscopes	Wesley Williams Honeywell Advanced Technology, USA	
10:10	Reduction of thermal strain induced rate error for navigation grade fiber optic gyroscope	Berk Osunluk Bilkent University, Turkey	
10:35	Coffee Break		
11:00	First inertial head navigation system	Frédéric Guattari iXblue, France	
	Session 2: Resonator gyroscopes - Chairman: tbd.		
11:25	The world smallest, most accurate and reliable pure inertial module: ONYX™	Benjamin Deleaux Safran, France	
11:50	Strapdown inertial navigation system of minimum dimension (3D oscillator as a complete inertial sensor)	Sergey E. Perelyaev Russian Academy of Sciences, Russia	
12:15	Lunch		
	Session 3: MEMS I - Chairman: tbd.		
13:45	Multi-degree-of-freedom MEMS coriolis vibratory gyroscopes designed for dynamic range, robustness, and sensitivity	Andrei M. Shkel University of California, USA	
14:10	Reduction of vibration and mechanical shocks in MEMS gyroscopes for space application	Mikulas Jandak Honeywell Int., Czech Republic	
14:35	A resonant frequency shift quartz accelerometer with 1st order frequency $\Delta\Sigma$ modulators for a high performance MEMS IMU	Masayoshi Todorokihara Seiko Epson Corporation, Japan	
15:00	Coffee Break		
15:30	Behavioral performance during vibration and shock for a tactical grade IMU	Hans Schou Sensonor AS, Norway	
	Session 4: MEMS II - Chairman: tbd.		
15:55	Analysis and simulation of phase errors in quadrature cancellation techniques for MEMS capacitive gyroscopes	Ahmed Omar Si-Ware Systems, Egypt	
16:20	Digital architecture for vibrating inertial sensors: modularity, performances, self-calibrations	Léopold Delahaye Onera, France	
17:45 19:00	Come together "City-Walk" @ Meetingpoint Burgplatz (Statue Lion) Restaurant Rudas - Best Western FOURSIDE - Burgpassage		

# Programme Day 2 - 2018 DGON Inertial Sensors and Systems

# Wednesday, September 12, 2018

	Session 5: Visual Aiding - Chairmain: tbd.	
9:00	Visual inertial hybridization technique based on beacons identified by Deep Learning	Fabrice Delhaye Safran Electronics & Defense, France
9:25	Qualification of a new CVG-based inertial reference unit in a combined stellar-inertial attitude determination system for space applications	Florian Schuh Jena-Optronik, Germany
9:50	SLAM for direct optimization based visual inertial fusion	Manuel Schwaab Hahn-Schickard-Gesellschaft für ange- wandte Forschung, Germany

## 10:15 Coffee Break

	Session 6: Data Fusion and Filtering - Chairman: tbd.	
10:45	A graph approach to dynamic fusion of sensors	XIN ZHANG Shanghai Jiao Tong University, China
11:10	Novel robust generalized high-degree cubature kalman filter for transfer alignment	Kai Wang Harbin Institute of Technology, China
11:35	Poster Intro	

#### 12:10 Lunch

	Session 6 continue	
14:00	Electrically integrated miniature motion tracking module with multiple external GNSS receiver support	Michele Crabolu Xsens Technologies, Netherlands
14:25	In-motion alignment algorithm of strapdown inertial navigation systems	Ana Cristina Vieira Gonçalves Military Institute of Engineering, Brazil

## 14:50 Coffee Break

	Session 7: Systems - Chairman: tbd.	
15:15	An advanced ITAR-Free INS/GPS designed and developed in Italy	Giovanni Mattei Northrop Grumman Italia, Italy
15:40	An integrated gravimetric system to measure absolute gravity aboard a moving base	Alexander Sokolov Concern CSRI Elektropribor, Russia
16:05	Development of inertial sensors for AHRS considering DO-254	Uwe Herberth Northrop Grumman LITEF, Germany
16:30	Goodbye	Peter Hecker TU Braunschweig, Germany

#### 16:35 End of Conference