

Program Schedule - Wednesday, June 20, 2018

Military Metrology for AeroSpace

CASA DELL'AVIATORE, ROME (ITALY) - JUNE 20, 2018

Military Metrology for AeroSpace is organized by *Associazione Arma Aeronautica - Centro Studi Militari Aeronautici (CESMA)* and *AFCEA Naples Chapter*, with the Patronage of *AFCEA EUROPE* and *AFCEA Rome Chapter* as a parallel event of the 5th IEEE International Workshop on Metrology for AeroSpace

08:45 - 08:55	WELCOME ADDRESSES Lt. Gen. IAF (r) Pietro Finocchio, <i>CESMA Director</i> Prof. Pasquale Daponte, <i>University of Sannio</i>
FIRST SESSION / Chairman: Lt. Gen. Pietro Finocchio	
09:00 - 09:20	GENERAL KEYNOTE Gen. D. A. Fabio MOLTINI, Italian Air Force Logistic Command "IAF 5th Generation Logistic"
09:25 - 09:45	Brig. Gen. Maurizio ASTOLFI, Italian Air Force Logistic Command "The logistic support evolution for the Italian Air Force fleet - The choice of maintenance policy to optimize aircraft availability and resources"
09:50 - 10:10	CC (AN) Paolo TRESCA, Italian Navy "Life Cycle Management: Life Cycle Cost of Warships in Naval Programs of Italian Navy"
10:15 - 10:35	Lt. Col. Walter VILLADEI, Italian Air Force Staff "The Evolution of the Aerospace Sector"
10:35 - 10:55	COFFEE BREAK
SECOND SESSION / Chairman: Lt. Gen. IAF(r) Antonio Tangorra, Afcea Roma; Co-chairman: Gen. IAF (r) Dario Nicoletta, Afcea Naples	
11:00 - 11:20	Eng. Leonardo MAZZINI, Thales Alenia Space Italia "Logistical Support Scenarios of Space Military Assets"
11:25 - 11:45	Eng. Angelo DELL'ISOLA, Orizzonti Sistemi Navali "Life Cycle Management: Operational Availability (Ao) in Naval Programs of Italian Navy"
11:50 - 12:10	Eng. Eduardo DE FRANCESCO, FederLazio Aerospazio e Difesa "Life Cycle Management: Use of the European Aerospace & Defence (ASD) Data Model to standardize LCM data sources"
12:15 - 12:55	Speakers Round Table and Conclusions Chairman Lt. Gen. IAF Basilio Di Martino, National Armament Directorate (TBC)
13:00 - 14:00	LUNCH

Registration is required. Please fill the form available at:

<http://www.metroaerospace.org/military/registration.php>

Tutorials - Wednesday, June 20, 2018

TUTORIALS	
Place: <i>Casa dell'Aviatore, Viale dell'Università</i>	
14:00 - 15:00	Attilio Parri, Systecon Life Cycle Management
15:00 - 15:20	COFFEE BREAK
15:20 - 18:00	Opus Suite User Group

TUTORIALS	
Place: <i>CNR Headquarter, Marconi Hall</i>	
15:00 - 17:15	REGISTRATION – CNR Headquarter
15:00 - 15:45	Vincenzo Galdi, University of Sannio Introduction to Metamaterials
15:45 - 16:30	Alessio Monti, Niccolò Cusano Univ. Metamaterials for Measurements
16:30 - 17:15	Mirko Barbuto, Niccolò Cusano Univ. Measurements on Metamaterials

19:00 - 21:00	WELCOME RECEPTION <i>Casa dell'Aviatore, Viale dell'Università, Rome</i>
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Program Schedule - Thursday, June 21, 2018

8:30 - 17:30	REGISTRATION – National Research Council (CNR) Headquarter				
9:00 - 9:30	Welcome Addresses – CNR Headquarter - Auditorium				
9:30 - 10:30	Invited Speech - Dr. Stefano Vitale CNR Headquarter - Auditorium				
10:30 - 11:00	COFFEE BREAK - CNR Headquarter				
	<i>CNR Headquarter</i> Auditorium	<i>CNR Headquarter</i> Marconi Hall	<i>CNR Headquarter</i> Giacomello Hall	<i>CNR Headquarter</i> Bisogno Hall	<i>CNR Headquarter</i> Digital Corridor
11:00 - 12:40	S1 General Session PART I	S2 Metrology for Future Space Exploration. PART I	S3 Non Destructive Testing and Evaluation for Aerospace	S4 GARFIELD – Green, Accessible and Safe Grassy Airfields.	Poster Demo Session Exhibitors
12:40 - 14:00	LUNCH - CNR Headquarter				
14:00 - 15:40	S5 Metrology and Instrumentation for Unmanned Aerial Vehicles PART I	S6 Metrology for Future Space Exploration. PART II	S7 Terrestrial and In-flight Verification of the GNC systems for Aerospace Vehicles	S8 Relativistic Metrology	
15:40 - 16:00	COFFEE BREAK - CNR Headquarter				
16:00 - 17:40	S9 Metrology and Instrumentation for Unmanned Aerial Vehicles PART II	S10 Metrology for Future Space Exploration. PART III	S11 General Session PART II		
19:00 - 23:00	GALA DINNER Caserma Pio IX Viale Castro Pretorio, 95 - Rome				

Program Schedule - Friday, June 22, 2018

8:30 - 16:00	REGISTRATION – National Research Council (CNR) Headquarter			
9:00 - 9:50	Invited Speech - Dr. Ephraim Suhir <i>CNR Headquarter - Auditorium</i>			
	<i>CNR Headquarter</i> Auditorium	<i>CNR Headquarter</i> Marconi Hall	<i>CNR Headquarter</i> Giacomello Hall	<i>CNR Headquarter</i> Digital Corridor
10:00 - 11:40	S12 Metrology for Radar Systems. PART I	S13 Measurement for Improving Quality, Reliability And Safety in Aerospace Applications	S14 Measurement and Instrumentation for Aerospace Application. PART I	
11:40 - 12:45	COFFEE BREAK POSTER SESSION / DEMO SESSION - CNR Headquarter			Poster
12:45 - 13:10	The Copernicus Earth Observation and Monitoring programme <i>CNR Headquarter - Auditorium</i>			Demo Session
13:10 - 14:30	LUNCH - CNR Headquarter			
14:30 - 16:10	S15 Metrology for Radar Systems. PART II	S16 Complex Systems Operational Availability: Measurements, Methodologies and Requirements	S17 Measurement and Instrumentation for Aerospace Application. PART II	Exhibitors
16:10 - 16:30	COFFEE BREAK - CNR Headquarter			
16:30 - 17:50	S18 General Session. PART III	S19 General Session. PART IV	S20 Measurement and Instrumentation for Aerospace Application. PART III	
18:00 - 18:15	CLOSING AND AWARD CEREMONY - CNR Headquarter - Auditorium			

General Session - PART I - ORAL PRESENTATIONS			
June 21 - H 11.00 - 12:40			
810	Preliminary design of an innovative aircraft weight & balance measurement system based on fiber optic sensors	Salvatore Antonio Monica Marco Antonio Marco Andrea	Ameduri Concilio Ciminello Leone Iele Consales Cusano
815	An Optimization Method for The Monopole Antenna Placement of a Low-Orbit Small Satellite	Antonio Antonella Davide Gilles Vito	Lovascio D'Orazio Cinarelli Mariotti Centonze
779	Differential GNSS and double difference approaches comparison for high integrity railway Location Determination System	Pietro Cosimo Andrea Francesco Alessandro	Salvatori Stallo Coluccia Rispoli Neri
891	Rice Coding-Based Lite Compression Algorithm with Controlled Error for Sensor Data	Stefano Serhiy Massimo	Esposito Avramenko Violante
944	Green-CubeSat ground test facility: Ground facilities to simulate a CubeSat environment for ideotype tomato plant growing	Fabio Luca Andrea Fabio Paolo Luca Eugenio	Santoni Gugliermetti Delfini Bisegna Marzioli Nardi Benvenuto

Special Track on Metrology for Future Space Exploration - ORAL PRESENTATIONS			
Special Session on Future techniques for extra-solar planets exploration			
June 21 - H 11.00 - 12.40			
819	The CHEOPS Mission	Andrea Willy Christopher	Fortier Benz Broeg
861	Finding Earth Analogs: Extreme Precision Radial Velocities From Space	Gautam	Vasisht
866	The ARIEL Space Mission	Enzo	Pascale
877	The LUVOIR coronagraph instrument	Laurent	Pueyo
878	Micro-pixel Metrology for Precision Astrometry Detection on Nearby Exoplanets	Anthony	Chen
886	The PLATO Mission	Harald Heike Don Juan	Michaelis Rauer Pollacco Cabrera

Special Session on Non Destructive Testing and Evaluation for Aerospace - ORAL PRESENTATIONS			
June 21 - H 11.00 - 12.40			
802	Shimming analysis of Carbon-Fiber Composite Materials with Eddy Current Testing	Gianni Giovanni Salvatore	D'Angelo Cavaccini Rampone
890	Inspection of Aircraft Wing Panels Using Unmanned Aerial Vehicles	Konstantinos Al Jose Panagiotis Florence Nick Antonios Luca	Malandrakis Savvaris Gonzalez Domingo Tsilivis Plumacker Avdelidis Tsourdos Zanotti Fragonara
932	Auto Regressive Exogenous modeling of pseudo-noise thermography for the nondestructive evaluation of aerospace materials	Stefano	Laureti
953	Testing an electronic nose for pre-bond NDT in Realistic CFRP Parts assembly and repair	Saverio	De Vito
957	Probe localization by Magnetic Measurements in Eddy-Current Nondestructive Testing Environment	Luigi Gianni Filippo Marco Paolo Antonella Alessio Antonio	Ferrigno Cerro Milano Laracca Carbone Comuniello De Angelis Moschitta

Special Session on GARFIELD – Green, Accessible and Safe Grassy Airfields. Metrology, Methods and Instrumentation			
ORAL PRESENTATIONS			
June 21 - H 11.00 - 12.40			
807	Embedded Wheel Force Sensor For Aircraft Landing Gear Testing	Jaroslaw Jerzy Tomasz Ernest	Pytka Jowik Lyszczuk Gnapowski
809	Method for Determination of Airplane Takeoff and Landing Distance	Ernest Jaroslaw Jerzy Tomasz	Gnapowski Pytka Jozwik Lyszczuk
813	Experimental Identification of Grassy Airfield Surface Geometry for the GARFIELD Database	Arkadiusz Jerzy Jaroslaw	Tofil Jowik Pytka
873	Monitoring Grass Airfield Conditions for the GARFIELD System	Jaroslaw Tomasz Ernest	Pytka Lyszczuk Gnapowski
934	Influence of the Gas Medium on the Metrological Characteristics of Shock Tubes	Chenchen Hongbo Bo	WANG WANG SHI

Special Session on Metrology and Instrumentation for Unmanned Aerial Vehicles - PART I - ORAL PRESENTATION			
June 21, H 14:00 - 15.40			
929	A Secondary Surveillance Radar with Miniaturized Transponders for Localization of Small-Sized UAVs in Controlled Air Space	Martin	Schuetz
951	Comparative Performance of Simultaneous Localization and Mapping Algorithms for Unmanned Aircraft Based Navigation Systems	Graham	Wild
849	Safe avoidance path detection using multi sensor integration for small Unmanned Aerial Vehicle	Muhammad Faiz	Ramli
881	Assessment of the tracking accuracy for the air Vehicle Tracking System supporting the CIRA Optionally Piloted Aircraft	Francesco Vittorio Michele Roberto Gianpiero	Fusco Castrillo Inverno Montaquila Buzzo
952	UAV Intelligent Chemical Multisensor payload for Networked and Impromptu Gas monitoring tasks	Saverio	De Vito

Special Track on Metrology for Future Space Exploration - ORAL PRESENTATIONS			
Special Session on In-situ instruments and device			
June 21 - H 14.00 - 15.40			
905	Ma_MISS flight model calibration target: spectral characterization	Paola	Tinivelli
803	Optimization of the fluid dynamic design of the Dust Suite-MicroMED sensor for the ExoMars 2020 mission	Giuseppe Francesca Fabio Cesare Simone Ciprian Massimo Marek Fausto Bortolino Diego Alexander	Mongelluzzo Esposito Cozzolino Molfese Silvestro Popa Dall'Ora Lubieniecki Cortecchia Saggin Scaccabarozzi Zakharov
832	Synthetic plagioclases as support for future "in-situ" missions: iron's influence on VNIR reflectance	Cristian Andrea Daniele Giovanna Giovanni Maria	Carli Orlando Borrini Serventi Pratesi Sgavetti
833	Dielectric spectroscopy measurements of saline aqueous solutions in the VHF-UHF bands: towards a dielectric model for icy satellites water reservoirs.	Yann	Brouet
883	VISTA instrument: a PCM-based sensor for organics and volatiles characterization by using Thermogravimetric technique	Fabrizio Ernesto Andrea David Angelo Anna Emiliano Bortolino Diego Javier	Dirri Palomba Longobardo Biondi Boccaccini Galiano Zampetti Saggin Scaccabarozzi Martin-Torres
793	Relative pointing error verification of the Telescope Mount Assembly subsystem for the Large Synoptic Survey Telescope	Unai Gorka Fernando José Antonio	Mutilba Kortaberria Egana Yague-Fabra

Special Session on Terrestrial and In-flight Verification of the GNC systems for Aerospace Vehicles - ORAL PRESENTATIONS			
June 21 - H 14.00 - 15.40			
786	Concept of high-precision relative navigation of micro-satellites in their formation	Alexander Vladimir Alexander	Nebylov Nebylov Panferov
824	Algorithm for relative navigation and control systems for closely spaced satellite in a group	Aleksandr Alexander Sergey	Panferov Nebylov Brodsky
826	Alignment Verification of a Star Tracker Cluster and a Space Telescope for Land-survey Satellite	Yevgeny Sergey Sergey Tatyana	Somov Butyrin Somov Somova
898	Control optimization in aerospace engineering at stochastic perturbations and stream of faults	Nikolay Yevgeny	Rodnishchev Somov
917	Guidance and control of a free-flying robot at rendezvous with noncooperative space vehicle	Yevgeny Sergey Sergey Tatyana	Somov Butyrin Somov Somova
918	Active fault tolerant gyromoment control of information satellites and free-flying robots	Nikolay Yevgeny	Rodnishchev Somov

Special Session on Relativistic Metrology - ORAL PRESENTATIONS			
June 21 - H 14.00 - 15.40			
856	METRIC: a dedicated Earth-orbiting spacecraft for fundamental physics and geophysics	Enrico Roberto	Lorenzini Peron
956	Covariance analysis applied to the MESSENGER and BepiColombo	Fabrizio Luciano	De Marchi less
850	New Measurements of Gravitation in the Field of the Earth and the LARASE Experiment	David Luciano Massimo Carmelo Carmen Roberto Giuseppe Ruggero Massimo	Lucchesi Anselmo Bassan Magnafico Pardini Peron Pucacco Stanga Visco
912	Using Galileo for detecting the gravito-magnetic field of the earth	Angelo David Enrico Giuseppe Matteo Luca	Tartaglia Lucchesi Lorenzini Pucacco Ruggiero

Special Session on Metrology and Instrumentation for Unmanned Aerial Vehicles - PART II - ORAL PRESENTATION**June 21, H 16:00 - 17.20**

961	Upstream Wind Sensing for Small Unmanned Aerial Vehicles	Simon	Watkins
864	ARIA: Air Pollutants Monitoring Using UAVs	Gian Marco Antonio Riccardo Matteo Edoardo Giacomo Alessio Enrico	Bolla Casagrande Comazzetto Dal Moro Destro Fantin Colombatti Aboudan Lorenzini
924	A Passive Cloud Detection System for UAV: Analysis of Issues, Impacts and Solutions	Franziska Peter	Funk Stuetz
889	Detection of moving heat-emitting object using single IR camera	Konrad Igor Zdzislaw	Wojtowicz Morawski Rochala

Special Track on Metrology for Future Space Exploration - ORAL PRESENTATIONS			
Special Session on Advanced remote sensing for exploration			
June 21 - H 16.00 - 17.40			
848	Super Resolution and Interferences Suppression Techniques applied to SHARAD Radar Data	Maria Carmela	Raguso
869	The advanced optical and thermomechanical design of the JUICE/MAJIS spectrometer	Leonardo Giulio Anna Irene Nazzareno Marilena Raffaele Giuseppe Gianrico Sergio Bortolino Federico Massimo Luca Savino Martina Valter	Tommasi Bugetti Fabbri Guerra Tonetti Amoroso Mugnuolo Piccioni Filacchione Fonti Saggin Tosi Zambelli Bocchini De Palo Girauda Perotto
884	The measurement of the noise-equivalent spectral radiance of SIMBIO-SYS/VIHI spectrometer	Gianrico Fabrizio Francesca Cristian Leonardo Iacopo Michele Gianluca Donato Alessandra Marco Guia Raffaele Gabriele	Filacchione Capaccioni Altieri Carli Tommasi Ficai Veltroni Dami Aroldi Borrelli Barbis Baroni Pastorini Mugnuolo Cremonese
946	Performances of the SIMBIO-SYS Stereo Imaging Channel (STC) on board BepiColombo/ESA spacecraft	Alessandra Emanuele Vania Michele Cristina Alice Michele Donato Iacopo Maria Gabriele	Slemer Simioni Da Deppo Zusi Re Lucchetti Dami Borrelli Ficai Veltroni Capria Cremonese
935	Dielectric characterization of ice/Na2SO4·10H2O mixtures: implications for radar investigations of icy satellite	Barbara	Cosciotti
902	How science can benefit from synergies with human space exploration: the case for Near Earth Asteroids (NEAs)	Marco	Tantardini
971	How the Moon Village Association is fostering the return to the Moon	Giuseppe John C.	Reibaldi Mankins

General Session - PART II - ORAL PRESENTATIONS			
June 21 - H 16:00 - 17:20			
880	MINLU: an instrumental suite for monitoring light pollution from drones or balloons	Pietro Carlo Enrico Alessio Giacomo Sergio Andrea	Fiorentin Bettanini Lorenzini Aboudan Colombatti Ortolani Bertolo
812	Quasi-Newton Cubature Kalman Filtering Method based on BFGS Correction Formula for Attitude Determination Applied to Underwater Glider	Haoqian	Huang
948	Metamaterials for hypersonic flow control: experimental tests on novel ultrasonically absorptive coatings	Tiziano	Pagliaroli
915	Design of a flow rate measurement system for low-pressure gases	Diego	Scaccabarozzi

868	High update rate star tracker for gyroless spacecraft operation	Mikael Hyochoong	Marin Bang
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Special Session on Metrology for Radar Systems - PART I - ORAL PRESENTATIONS			
June 22 - H 10.00 - 11.40			
785	Receiver Operating Characteristics of a Passive Millimeter-wave Radiometric Sensor	Marco Massimiliano Riccardo Mauro	Frasca Rossi Liberati Angelini
787	Methods for testing military radars produced in Poland	Mariusz Marek Mirosław Mirosław	Pakowski Brzozowski Michalczewski Myszka
781	Test Tool for Detection and Tracking Capability Verification in Early Warning Radar	Emanuele	Bisogni
808	Detection of Multiple Noise-like Jammers for Radar Applications	Vincenzo Chengpeng Danilo Antonio Salvatore	Carotenuto Hao Orlando De Maio Iommelli
852	Evolution of Cognitive Radars towards Intelligent Systems Architectures	silvia	ULLO

Special Session on Measurement for Improving Quality, Reliability And Safety in Aerospace Applications - ORAL PRESENTATIONS			
June 22 - H 10.00 - 11.40			
806	Test Data Modeling and Implementation with Enhanced Accuracy for the Diagnosis of a DUT provided with Real-World Failure Models	Guerkan	Uygun
825	Model-based prognostic health-management algorithms for the freeplay identification in electromechanical flight control actuators	Gianpietro Francesco Roberto	Di Rito Schettini Galatolo
836	Dependable MPSoC-Based Mixed-Criticality Systems for Space Applications	Stefano Massimo	Esposito Violante
939	Study and ground simulations of outgassing and hypervelocity impacts on carbon-based materials for space applications	antonio andrea Marta Fabio Mario	vriceella delfini Albano Santoni Marchetti
943	Applications for Diagnosis of Real Electromagnetic Behaviors in Hybrid Electronic Architectures	Jean-marc	Dienot

Special Session on Measurement and Instrumentation for Aerospace Applications - PART I - ORAL PRESENTATIONS			
June 22 - H 10:00 - 11:40			
811	Optical pressure sensor for landing gear	Alberto Ralf	Sposito Pechstedt
799	Micro-thrust measurement of a MEMS based cold gas micro-thruster in vacuum conditions	Xingchen Yiyong Xiang Wei Xiaoqian	Li Huang Zhang Han Chen
831	An Experimental Comparison of ROS-compatible Stereo Visual SLAM Methods for Planetary Rovers	Riccardo Sebastiano Marco Stefano	Giubilato Chiodini Pertile Debei
892	Stereoscopic vision-based relative navigation for spacecraft proximity operations	mattia Andrea Alberto Enrico	mazzucato Valmorbida Guzzo Lorenzini
816	Characterization and testing of a high-resolution Time-of-Flight camera for autonomous navigation	Roberto Giancarmine Giancarlo Michele	Opromolla Fasano Rufino Grassi

Special Session on Metrology for Radar Systems - PART II - ORAL PRESENTATIONS			
June 22 - H 14.30 - 16.10			
835	Test Results of an innovative frustum of cone antenna sited in an outdoor Test Range	Rossella Marco	Stallone Massardo
838	Assessing Spectral Compatibility Between Radar and Communication Systems on Measured Data	Vincenzo Augusto Antonio Alfonso Nicola Alfonso	Carotenuto Aubry De Maio Farina Pasquino Farina
840	Localization of Gravitational Sources From Time-Frequency Maps	Paolo Maurizio Vincenzo Vincenzo	Addesso Longo Matta Pierro
919	On the use of ExoMars Radar Doppler Altimeter for Descent Module Attitude Reconstruction	Michela Marco Pasquale	Veredice Iorio Pepe
940	A MISO radar system for drone localization	Giulia Erika Emanuele Stefano	Sacco Pittella PiuZZi Pisa

Special Session on Complex Systems Operational Availability: Measurements, Methodologies and Requirements			
ORAL PRESENTATIONS			
June 22 - H 14.30 - 16.10			
778	[INVITED] Synchrotron X-rays methodologies for Aerospace Materials	Ilaria	Carlomagno
914	A New Reliability Approach for Additive Layers manufactured components: an improvement	Eduardo	De Francesco
843	Radome Reliability	Gianluca	Mariotti
968	Applicability of the Mixed Reality to Maintenance and Training Processes of C4I Systems in Italian Air Force	Silvia	Ullo
821	Measuring of Axis Errors and Their Prognosis During Aircraft Parts Machining	Jerzy	Jozwik

Special Session on Measurement and Instrumentation for Aerospace Applications - PART II - ORAL PRESENTATIONS			
June 22 - H 14:30 - 16:10			
814	Smart Air-Data Probe for Fault-Tolerant Flow Measurements	Francesco Gianpietro Roberto	Schettini Di Rito Galatolo
921	Design of a Wireless Passive Sensing System for Impact Detection of Aerospace Composite Structures	Hailing Aldyandra Zahra M. H.	Fu Hami Seno Sharif Khodaei Aliabadi
928	Application of Piezoelectric Sensors for Structural Health Monitoring in Aerospace	Filip Zdenek Jiri	Ksica Hadas Hlinka
842	Camera Rig Extrinsic Calibration Using a Motion Capture System	Sebastiano Marco Riccardo Federico Marco Paola Stefano	Chiodini Pertile Giubilato Salvioli Barrera Franceschetti Debei
858	Shape Measurement of Large Structures in Space: Experiments	Thibaud Sergio	Talon Pellegrino

General Session - Part III - ORAL PRESENTATIONS			
June 22 - H 16.30 - 17.50			
844	Investigation of image based measurement for aircraft approach	Jacek	Pieniasek
942	Design of a Microwave Sensor for Fuel Quality Monitoring	Attilio Filippo Giuseppe Maria Pietro Gregorio Sergio Mario	Di Nisio Attivissimo D'Aucelli Pappalardi Andria Camporeale
859	Stochastic Flash ADC in Hardware Correlator for Very Long Baseline Interferometry	Marjan Jelena Nemanja	Urekar Đorđević-Kozarov Gazivoda
930	MET4F: a tool for providing in near real-time weather information on board	Myriam Alessandra Paola	Montesarchio Zollo Mercogliano

General Session - Part IV - ORAL PRESENTATIONS			
June 22 - H 16.30 - 17.50			
876	Temperature sensitivity of a quartz crystal microbalance for TGA in Space	Marianna Bortolino Diego Marco Ernesto Andrea Fabrizio Emiliano	Magni Saggin Scaccabarozzi Tarabini Palomba Longobardo Dirri Zampetti
N/A	Compressed Sensing Technologies and Challenges for Aerospace and Defense RF Source Localization	Pasquale Luca Francesco Sergio Ioan	Daponte De Vito Picariello Rapuano Tudosa
846	Study on Vacuum Leak Calibration Technology Based on Static Cumulative Comparison Method	Lan Yongjun Wenjun Lian Yali Tianyou	Zhao Cheng Sun Chen Li Feng
896	Eye-Tracking Sensors for Adaptive Aerospace Human-Machine Interfaces and Interactions	Alessandro Yixiang Roberto	Gardi Lim Sabatini

Special Session on Measurement and Instrumentation for Aerospace Applications - PART III - ORAL PRESENTATIONS			
June 22 - H 16:30 - 17:50			
927	Performance comparison among three optical fibre-based displacement sensors for Blade Tip Clearance measurements	Rubén	Fernández Bello
		Josu	Amorebieta
		Gaizka	Durana
		Josu	Beloki
		Joseba	Zubia
925	OCEANS-18: Monitoring undetected vessels in high risk maritime areas	Angelo	Dumitriu
		Giuliana Elena	Miceli
		Sara	Schito
		Daide	Vertuani
		Pietro	Cecchetto
		Luca	Placco
		Giulia	Callegaro
		Laura	Marazzato
		Francesco	Accatino
		Anselmo	Bettio
		Elisa	Conte
		Thomas	Golfetto
		Enrico	Cagnato
		Alberto	Scomparin
		Rudy	Roncato
		Lorenzo	Rossi
Gabriele	Lombardo		
Michele	Lucrezia		
Francesco	Fontanot		
Carlo	Bettanini		
907	Reconfigurable S-Band Patch Antenna Radiation Patterns for Satellite Missions	Erika	Pittella
875	Position measurement and uncertainty analysis for the shutter mounted on the ESA Rosetta mission	Marco	Pertile
		Sebastiano	Chiodini
		Riccardo	Giubilato
		Stefano	Debei

POSTER SESSION - POSTER PRESENTATIONS			
June 22 - H 11.40 - 12:45			
822	Dynamic Measurement of Spindle Errors of CNC Machine Tools by Capacitive Sensors During Aircraft Parts Machining	Jerzy	Jozwik
926	Impact of the cooling technique on the voltage stability in thin superconducting microbridges	Antonio Angela Sandro Gaia Nadia Jean-Claude Francesco Paola	Leo Nigro Pace Grimaldi Martucciello Villegier Avitabile Romano
941	Design and performance evaluation of drone propellers	Attilio Gregorio Anna Maria Lucia Giuseppe Fabio Gaetano Mirko	Di Nisio Andria Lanzolla Pascazio Antonacci Sorrentino
947	First tests of the altimetric and thermal accuracy of an UAV landfill survey	Gregorio Domenica Valerio Francesco	Andria Costantino Baiocchi Adamo
788	Metrology problems of WIG-craft motion control	Alexander Vladimir Alexander	Nebylov Nebylov Knyazhsky
797	Measurements Optimization for Control of Distributed Parameter Systems	Alexander Sergey Alexander	Panferov Brodsky Nebylov
834	Reliability Degradation, Preventive and Corrective Maintenance of UAV	Fabio	Leccese
853	Nickel supported on Y2O3-ZrO2 as highly selective and stable CO2 meth	Fabio	Leccese
867	Electronic Nose: a First Sensors Array Optimization for Pesticides Detecti	Fabio	Leccese
910	Synthesis of amorphous Mg-carbonates for the application in the produc	Caterina	De Vito
805	LEDSAT: a LED-based CubeSat for optical orbit determination methodologies improvement	Giammarco Paolo Silvia Andrea Lorenzo Alice Fabrizio Fabio	Cialone Marzioli Masillo Gianfermo Frezza Pellegrino Piergentili Santoni
922	A virtual test-bench for noise figure measurements of mismatched devices	Emanuele Alina	Cardillo Caddemi
830	Dynamic Analysis of Aircraft Landing Gear Wheel	Jerzy Jaroslaw Arkadiusz	Jozwik Pytko Tofil
938	Energy Saving Adaptive SDR Transmitters for Small Satellites and Their Metrological Characteristics	Anatoliy	Platonov
954	A System Engineering Tool for the Optimisation of a GNSS Constellation Design	Marco Camilla Massimo	Nugnes Colombo Tipaldi
964	Testing of airborne laser altimetry sensors	Lorenzo Matteo	Ciani Venzi
784	UAS aided landing and obstacle detection throught LIDAR-Sonar data	Umberto Giuseppe Gennaro	Papa Del Core Ariante
837	Miniaturized flight data recorder for unmanned aerial vehicles and ultralight aircrafts	Przemyslaw Zbigniew Miroslaw Andrzej	Kordowski Jakielaszek Nowakowski Panas
871	Algorithms for the detection and compensation interference of magnetic field measurement	Marcin Michal Miroslaw Grzegorz	Chodnicki Mazur Nowakowski Kowaleczko
894	Stereovision module for UAV navigation system	Bartosz Natalia	Brzozowski Szymanek
874	Specific damping capacity of CuZn and CuZnAl metal foams, a preliminary study	Diego	Scaccabarozzi

895	Network Optimization for Multistatic Ultrasonic Sensors Based Indoor Navigation System	Alessandro Rohan Subramanian Roberto	Gardi Kapoor Ramasamy Sabatini
865	GNSS performance modelling for positioning and navigation in urban environments	Suraj Subramanian Roberto	Bijahalli Ramasamy Sabatini
783	Volume scattering losses evaluation for radar sounding of Jovian icy moons	Federico Roberto Sebastian Barbara Elisabetta Elena	Di Paolo Orosei Lauro Cosciotti Mattei Pettinelli