

IEEE MELECON 2020

Technical Sessions – Program Summary

Virtual Sessions will be available from June 16th to July 31st on WEConf Platform

On the platform will be available a Q&A window where participants can address their questions to the speakers and will receive the answers

TRACK 1 - SMART MOBILITY

Session 1.1 Electric vehicle transportation systems and their environmental impact, charging infrastructure and grid integration

Chairs:

Rosa Mastromauro, University of Firenze, Italy

Elena Breaz, UBTM, France

<u>1570624697</u>	<i>From electric mobility to hydrogen mobility: current situation and possible future developments</i>	Guido Ala (Università degli Studi di Palermo, Italy); Vincenzo Castiglia, Gabriella Di Filippo, Rosario Miceli, Pietro Romano and Fabio Viola (University of Palermo, Italy)
<u>1570625034</u>	<i>Acoustic Impact of Electric Vehicles</i>	Filippo G. Pratico, Paolo G. Briante and Greta Speranza (University Mediterranea of Reggio Calabria, Italy)
<u>1570627690</u>	<i>Selective harmonic mitigation with asymmetrical staircase voltage waveform for a three-phase five-level Cascaded H-Bridge Inverter</i>	Fabio Viola (University of Palermo, Italy); Giuseppe Schettino (University of Studies of Palermo, Italy); Rosario Miceli (University of Palermo, Italy); Nicola Campagna (UNIPA, Italy); Ciro Spataro and Antonino Oscar Di Tommaso (Università di Palermo, Italy)
<u>1570628072</u>	<i>Cost-benefit analysis for multiple agents considering an electric vehicle charging/discharging strategy and grid integration</i>	Mahsa Bagheri Tookanlou (Northumbria University, United Kingdom (Great Britain)); Mousa Marzband (Northumbria University, Italy); Ameena Al Sumaiti (Khalifa University, United Arab Emirates); Andrea Mazza (Politecnico di Torino, Italy)
<u>1570633392</u>	<i>Modeling of Magnetorheological Fluids Relative Magnetic Permeability by using a Neural Network approach</i>	Paweł Kowol (Silesian University of Technology, Poland); Marcin Szczygiel (Silesian University of Technology & Faculty of Electrical Engineering, Poland); Grazia Lo Sciuto (Università di Catania, Italy); Giacomo Capizzi (Italia & Università di Catania, Italy)
<u>1570634390</u>	<i>Outlier Removal for Improving the Accuracy of Electric Vehicle Behavior Prediction</i>	Kunihiro Miyazaki and Kenji Tanaka (The University of Tokyo, Japan)

Session 1.2 Transportation electrification, electric & hybrid vehicle, interconnected cities

Chairs:

Luca Pugi, University of Firenze, Italy

Cyril Spiteri Staines, University of Malta - Malta

part 1

<u>1570631350</u>	<i>An analytical evaluation of rotor eccentricity effects on synchronous drives with surface mounted permanent magnet brushless motors</i>	Andrea Del Pizzo (University of Napoli Federico II, Italy); Luigi Pio Di Noia (Università of Naples Federico II, Italy); Emanuele Fedele (University of Naples Federico II, Italy)
<u>1570627694</u>	<i>Performance Comparison of modified modulation Techniques for Quasi-Z-Source Converters</i>	Giuseppe Schettino (University of Studies of Palermo, Italy); Nicola Campagna (UNIPA, Italy); Vincenzo Castiglia (University of Palermo, Italy); Antonino Oscar Di Tommaso (Università di Palermo, Italy); Rosario Miceli and Fabio Viola (University of Palermo, Italy)
<u>1570627698</u>	<i>Modelling, simulation and characterization of a supercapacitor</i>	Vincenzo Castiglia and Claudio Nevoloso (University of Palermo, Italy); Nicola Campagna (UNIPA, Italy); Ciro Spataro (Università di Palermo, Italy); Fabio Viola and Rosario Miceli (University of Palermo, Italy)
<u>1570627700</u>	<i>A prototypal PCB board for the EMI characterization of SiC-based innovative switching devices</i>	Filippo Pellitteri, Massimo Caruso, Salvatore Stivala and Antonino Parisi (University of Palermo, Italy); Angelo Messina and Vincenzo Vinciguerra (STMicroelectronics, Italy); Guido Ala (Università degli Studi di Palermo, Italy); Fabio Viola and Rosario Miceli (University of Palermo, Italy); Alessandro Busacca (Università di Palermo, Italy)
<u>1570624461</u>	<i>A Low Cost Programmable Hardware for Online Spectroscopy of Lithium Batteries</i>	Tommaso Serni (University of Florence, Italy); Edoardo Locorotondo (Università di Firenze, Italy); Luca Pugi, Lorenzo Berzi, Marco Pierini and Vincenzo Cultrera (University of Florence, Italy)

part 2

<u>1570624477</u>	<i>Design and Testing of a Flash Recharge System for a Bus including foreseen effects in terms of Storage Life Extension</i>	Adriano Alessandrini (University of Florence, Italy); Riccardo Barbieri (Università degli Studi di Firenze, Italy); Lorenzo Berzi, Luca Pugi and Marco Pierini (University of Florence, Italy); Fabio Cignini (Enea & Research Centre, Italy); Antonino Genovese (Italian National Agency for New Technologies Energy and Sustainable Economic Development & ENEA, Italy); Edoardo Locorotondo (Università di Firenze, Italy)
<u>1570618524</u>	<i>Motion Control in Resonant Frequency for an Electrified Implement</i>	Ilja Stasewitsch, Jan Schattenberg, Ludger Frerichs and Michaela Pußack (Technische Universität Braunschweig, Germany)
<u>1570620138</u>	<i>Sensorless Current Control at the Handwheel in Steer-by-Wire</i>	Kris Scicluna (University of Malta & Malta College for Arts, Science and Technology, Malta); Cyril Spiteri Staines and Reiko Raute (University of Malta, Malta)
<u>1570620151</u>	<i>Sensorless Position Control at the Steered Wheel in Steer-by-Wire</i>	Kris Scicluna (University of Malta & Malta College for Arts, Science and Technology, Malta); Cyril Spiteri Staines and Reiko Raute (University of Malta, Malta)
<u>1570628079</u>	<i>Power Flow Simulation of DC Railway Power Supply Systems with Regenerative Braking</i>	Fulin Fan and Brian G Stewart (University of Strathclyde, United Kingdom (Great Britain))

Session 1.3 Smart mobility of people and goods

Chairs:

Carlo Cecati University of Aquila, Italy

Giuseppe Tomasso, University of Cassino, Italy

Keynote track 1: *Green ship design: marine transportation electrification and research” challenges*

Giorgio Sulligoi (University of Trieste, Italy)

<u>1570625058</u>	<i>Exploiting free-floating car sharing rewards to support a free year of near daily commute</i>	<u>Eder Ollora Zaballa (Technical University of Denmark, Denmark)</u>
<u>1570624628</u>	<i>Audio surveillance of roads using deep learning and autoencoder-based sample weight initialization</i>	Zied Mnasri (ENIT, Tunisia); Stefano Rovetta (University of Genoa, Italy); Francesco Masulli (University of Genova, Italy)
<u>1570625061</u>	<i>Death/Birth and SNR Detection for Vehicular Kalman Channel Trackers</i>	Diego Méndez-Romero (Universidad Carlos III de Madrid, Spain); Maria Julia Fernandez-Getino Garcia (University Carlos III of Madrid, Spain)
<u>1570624932</u>	<i>Analysis of current ripple effect on Lithium batteries</i>	Mirko Marracci, Paolo Bolognesi, Alice Buffi, Gianluca Caposciutti and Bernardo Tellini (University of Pisa, Italy)

Session 1.4 Air transportation, avionics and aerospace, more electric aircrafts

Chairs:

Antonio Faba, University of Perugia, Italy

Armin Dietz, University of Nurnberg, Germany

Invited speaker: Electromagnetic Compatibility in the Aircraft sector: Lightning indirect effects and innovative protection techniques for safety improvement in the air transportation systems.

Hari Prasad Rimal (University of Perugia, Italy)

<u>1570618000</u>	<i>Efficient and Robust Modeling of Vector Magnetic Hysteresis: An Engineering Approach</i>	Abdelrahman Mohamed Ghanim and Hari Prasad Rimal (University of Perugia, Italy)
<u>1570618987</u>	<i>On the Use of Feedforward Neural Networks to Simulate Magnetic Hysteresis in Electrical Steels for Aircraft Applications</i>	Simone Quondam Antonio (University of Perugia, Italy); Francesco Riganti Fulginei (Roma TRE University, Italy); Hari Prasad Rimal and Abdelrahman Mohamed Ghanim (University of Perugia, Italy)
<u>1570619002</u>	<i>Neural Modelling of Magnetic Materials for Aircraft Power Converters Simulations</i>	Ermanno Cardelli (University of Perugia, Italy); Antonino Laudani (University of Roma Tre, Italy); Gabriele Maria Lozito, Valentina Lucaferri and Alessandro Salvini (Roma Tre University, Italy); Simone Quondam Antonio (University of Perugia, Italy); Francesco Riganti Fulginei (Roma TRE University, Italy)
<u>1570621996</u>	<i>Overview of the mechanical, thermal vacuum and EMI/EMC tests performed for the AMS-02 UTPS space qualification campaign</i>	Lorenzo Mussolin and Bruna Bertucci (University of Perugia & INFN - Perugia, Italy); Antonio Faba (University of Perugia, Italy); Giovanni Ambrosi and Gianluca Scolieri (INFN - Perugia, Italy); Francesco Tissi (Univ Perugia, Italy); Matteo Gaggiotti and Giulio Morelli (University of Perugia, Italy); Zhan Zhang, Vladimir Koutsenko, Carlos Solano and Alexander Kulemzin (Massachussets Insitute of Technology, USA); Youmin Yu (Sun Yat-Sen University, China); Ken Bollweg (NASA-JSC, USA); Phillip B. Mott and Craig Clark (NASA-JSC & Jacobs, USA); Tim Urban and Hsing Ju (NASA-JSC & Business Integra, USA); Thorsten Siedenbug and Chan Hoon Chung (RWTH Aachen University, Germany); Franco De Angelis (SERMS, Italy)
<u>1570625009</u>	<i>Analysis of the Polygon Connected ATRU for the More-Electric Aircraft</i>	Daniel Farrugia, Maurice Apap, Alexander Micallef and Cyril Spiteri Staines (University of Malta, Malta)

TRACK 2 - INDUSTRY 4.0

Session 2.1 Industrial applications

Chairs: Luis Almeida (University of Porto)

Alessandro Papadopoulos (Mälardalen University, Sweden)

Keynote Track 2: A cloud on time

Johan Eker (Ericsson Research)

1570624768	<i>Charlie and the Crypto Factory: Towards Secure and Trusted Manufacturing Environments</i>	Antonis Michalas (Tampere University, Finland), Tamas Kiss (University of Westminster, United Kingdom (Great Britain))
1570624521	<i>A cloud-edge smart infrastructures for road safety</i>	Salvatore Venticinque (University of Campania Luigi Vanvitelli, Italy), Massimiliano Rak (University of Campania Luigi Vanvitelli, Italy), Giovanni Salzillo (University of Campania Luigi Vanvitelli, Italy), Giovanni Laudante (SMA Road Safety, Italy), Vincenzo Musone (SMA Road Safety, Italy)
1570611659	<i>Li-Ion Batteries Releasable Capacity Estimation with Neural Networks on Intelligent IoT Microcontrollers</i>	Giulia Crocioni (Politecnico di Milano, Italy), Danilo Pietro Pau (STMicroelectronics, Italy), Giambattista Gruosso (Politecnico di Milano, Italy)
1570624493	<i>Leak Detection Algorithm for Pipelines in Noisy Environments</i>	Spiros Nikolaidis (Aristotle University of Thessaloniki, Greece), George-Napoleon Papastavrou (Aristotle University of Thessaloniki, Greece), Georgios - Panagiotis Kousiopoulos (Aristotle University of Thessaloniki, Greece), Dimitrios Kampelopoulos (Aristotle University of Thessaloniki, Greece), Nikolaos Karagiorgos (Aristotle University of Thessaloniki, Greece), Dimitrios Porlidas (Aristotle University of Thessaloniki, Greece)

Session 2.2 Wireless systems

Chairs: Marco Balato (University of Napoli Federico II)

Fabio Viola (University of Palermo, Italy)

1570624283	<i>An experimental validation of the naive approach to Angle of Arrival estimation for green WSNs</i>	Antonello Florio (Politecnico di Bari, Italy), Gianfranco Avitabile (Politecnico di Bari, Italy), Giuseppe Coviello (Politecnico di Bari, Italy)
1570624586	<i>Efficient Transmission of Live Multi-View Video in LTE-A Cellular Networks using D2D Cooperation</i>	John Zammit (University of Malta, Malta), Carl James Debono (University of Malta, Malta)
1570625069	<i>Relay Node Selection in Bluetooth Mesh Networks</i>	Marco Reno (University of Catania, Italy), Raúl Rondón (Mid Sweden University, Sweden), Lucia Lo Bello (University of Catania, Italy), Gaetano Patti (Università di Catania, Italy), Aamir Mahmood (Mid Sweden University, Sweden), Alfio Lombardo (University of Catania, Italy), Mikael Gidlund (Mid Sweden University, Sweden)
1570624392	<i>A Battery-free Asset Monitoring System based on RF Wireless Power Transfer</i>	Patrizia Livreri (University of Palermo, Italy), Roberto La Rosa (STMicroelectronics, Italy), Catherine Dehollain (EPFL, Switzerland), Filippo Pellitteri (University of Palermo, Italy), Rosario Miceli (University of Palermo, Italy)
1570625055	<i>Self-powered wireless IoT nodes for emergency management</i>	Massimo Merenda (University Mediterranea of Reggio Calabria, Italy), Riccardo Carotenuto (University "Mediterranea" of Reggio Calabria, Italy), Francesco G. Della Corte (University Mediterranea of Reggio Calabria, Italy), Filippo G. Pratico (University Mediterranea of Reggio Calabria, Italy), Rosario Fedele (University Mediterranea of Reggio Calabria, Italy)
1570628124	<i>A Novel Plasmonic Nanoantenna for High Efficiency Energy Harvesting Applications</i>	Patrizia Livreri (University of Palermo, Italy), Giuseppe Raimondi (University of Palermo, Italy)
1570628248	<i>Optimization of diode bridge rectifier output voltage in Train Suspension Energy Harvesters</i>	Luigi Costanzo (Università degli Studi della Campania Luigi Vanvitelli, Italy), Alessandro Lo Schiavo (Università degli Studi della Campania Luigi Vanvitelli, Italy), Massimo Vitelli (Università degli Studi della Campania Luigi Vanvitelli, Italy), Lei Zuo (Virginia Tech, USA)

Session 2.3 Artificial Intelligence and Big Data Analytics

Chairs:

Francesco Masulli, University of Genova, Italy

Ethem Alpaydn, Bogazici University, Turkey

1570623767	<i>Negative Selection Algorithm Based Intrusion Detection Model</i>	Taofeekat Tosin Salau-Ibrahim (University of Ilorin, Nigeria), Rasheed Jimoh (University of Ilorin, Nigeria)
1570624949	<i>LED junction temperature prediction using machine learning techniques</i>	Massimo Merenda (University Mediterranea of Reggio Calabria, Italy), Carlo Porcaro (University Mediterranea of Reggio Calabria, Italy), Francesco G. Della Corte (University Mediterranea of Reggio Calabria, Italy)
1570624992	<i>A Novel Fitness Tracker Using Edge Machine Learning</i>	Massimo Merenda (University Mediterranea of Reggio Calabria, Italy), Miriam Astrologo (University Mediterranea of Reggio Calabria, Italy), Damiano Laurendi (University Mediterranea of Reggio Calabria, Italy), Vincenzo Romeo (University Mediterranea of Reggio Calabria, Italy), Francesco G. Della Corte (University Mediterranea of Reggio Calabria, Italy)
1570625005	<i>Generalization Capacity Analysis of Non-Intrusive Load Monitoring using Deep Learning</i>	Halil Çimen (Konya Technical University & Konya Technical University, Turkey), Emilio J. Palacios-Garcia (Aalborg University, Denmark), Nurettin Çetinkaya (Konya Technical University, Turkey), Morten Kolbæk (Aalborg University, Denmark), Giuseppe Sciume (University of Palermo, Italy), Juan Vasquez (Aalborg University, Denmark), Josep M. Guerrero (Aalborg University, Denmark)
1570627757	<i>Attention-based Model for Evaluating the Complexity of Sentences in English Language</i>	Daniele Schicchi (University of Palermo, Italy), Giosue' Lo Bosco (University Of Palermo, Italy), Giovanni Pilato (Italian National Research Council, Italy)
1570628080	<i>An Approach for Objective Quality Assessment of Image Inpainting Results</i>	Dylan Seychell (University of Malta, Malta), Carl J. Debono (University of Malta, Malta)
1570628246	<i>Educational stream data analysis: A case study</i>	Gabriella Casalino (University of Bari Aldo Moro, Italy), Giovanna Castellano (University of Bari, Italy), Andrea Mannavola (University of Bari Aldo Moro, Italy), Gennaro Vessio (University of Bari, Italy)

Session 2.4 Robotics, Automation and Advanced Manufacturing

Chairs:

Adriano Fagiolini, University of Palermo, Italy

Izzal Azid Sheikh, University of South Pacific, Fiji

Invited Speaker: *An introduction to patterns for the Internet of Robotic Things in the Ambient Assisted Living scenario*

G.A. Muscato (University of Catania, Italy)

1570617258	<i>Investigations of the Methods of Time Delay Measurement of Stochastic Signals Using Cross-correlation with the Hilbert Transform</i>	Robert Hanus (Rzeszów University of Technology, Poland), Marcin Zych (AGH University of Science and Technology, Poland), Rafał Chorzępa (Rzeszów University of Technology, Poland), Anna Golijanek-Jędrzejczyk (Gdańsk University of Technology, Poland)
1570618038	<i>Development of a circuit design for a capacitive pressure sensor, applied in walking robot foot</i>	Konstantin Krestovnikov (St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences, Russia), Anton Saveliev (SPIIRAS, Russia), Ekaterina Cherskikh (St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences, Russia)
1570621135	<i>Advanced Manufacturing based on the Intelligent Floor</i>	Javier Stillig (University of Stuttgart & Bosch Rexroth AG, Germany), Nejila Parspour (University of Stuttgart, Germany)
1570624833	<i>Reduced order thermal models for electronic devices</i>	Arturo Buscarino (Università degli Studi di Catania, Italy), Luigi Fortuna (Università degli Studi di Catania, Italy), Carlo Famoso (DIEEI, University of Catania, Italy)
1570624948	<i>Erle-copter Simulation using ROS and Gazebo</i>	Krishneel Kumar (The University of the South Pacific, Fiji), Sheikh Azid (The University of the South Pacific, Laucala Campus & Faculty of Science Technology and Environment, Fiji), Adriano Fagiolini (University of Palermo, Italy), Maurizio Cirrincione (The University of the South Pacific, Fiji)
1570627374	<i>Investigation of Two-phase Flows in Pipelines Using Radioisotopes and Statistical Signal Processing</i>	Robert Hanus (Rzeszów University of Technology, Poland), Marcin Zych (AGH University of Science and Technology, Poland), Marek Jaszczur (AGH University of Science and Technology, Poland), Anna Golijanek-Jędrzejczyk (Gdańsk University of Technology, Poland)

TRACK 3 – SMART HEALTHCARE

Session 3.1 Services, Applications and Solutions to Challenging Problems in Smart Healthcare

Chairs:

Andreas Panayides, University of Cyprus, Cyprus

Carmelina Ruggiero, University of Genova, Italy

Invited: *Evaluating the effectiveness of the “Individual Assistance Plan” for Italian chronic patients*

Silvana Quaglini (University of Pavia, Italy)

1570624649	<i>Evaluating the effectiveness of the “Individual Assistance Plan” for Italian chronic patients</i>	Anna Alloni (Biomeris, Italy); Daniele Santonastaso (DSPS Solutions, Italy); Marco Villa (ATS Valpadana, Italy); Matteo Gabetta and Mauro Bucalo (Biomeris, Italy); Silvana Quaglini (Università di Pavia, Italy)
1570618013	<i>Robotic Systems in Current Clinical Practice</i>	Sotiris Avgousti (Cyprus University Of Technology, Cyprus); Eftychios G Christoforou (University of Cyprus, Cyprus); Andreas S. Panayides (University of Cyprus, Cyprus & University of New Mexico, USA); Panicos Masouras (Cyprus University Of Technology, Cyprus); Pierre Vieyres (Laboratoire PRISME – Université d’Orleans, France); Costantinos S. Pattichis (University of Cyprus, Cyprus)
1570622924	<i>Robotic arm assisted surgery in orthopedics: a Health Technology Assessment evaluation in Liguria Region</i>	Alessandro Sparacino (University of Genoa, Italy); Laura Paleari (Azienda Ligure Sanitaria, AliSa, Italy); Mauro Giacomini (University of Genova, Italy); Stefano Scillieri (University of Genoa, Italy); Gabriella Paoli (Azienda Ligure Sanitaria, AliSa, Italy)
1570624292	<i>Remote Center of Motion and Synchronized Rotation for a Motorized Surgical Table</i>	Alessandro Cristoforetti (University of Trento, Italy); Francesco Tessarolo (University of Trento & Bruno Kessler Foundation, Italy); Marta Rigoni and Giandomenico Nollo (University of Trento, Italy)
1570620571	<i>A Double per Priority Queue Dynamic Wavelength and Bandwidth Allocation Algorithm in Healthcare Applications Service</i>	Anastasios Valkanis (Aristotle University of Thessaloniki, Greece); Petros Nicopolitidis and Georgios Papadimitriou (Aristotle University, Greece); Dimitrios Kallergis (University of West Attica, Greece); Christos Douligeris (University of Piraeus, Greece); Panagiotis Bamidis
1570624753	<i>The importance of data synchronization in multiboard acquisition systems</i>	Giuseppe Coviello, Gianfranco Avitabile and Antonello Florio (Politecnico di Bari, Italy)

Session 3.2 Big Data Integration and Personalised Medicine in Smart Health Care

Chairs:

Themis Exarchos, Ionian University, Corfu, Greece

Luca Faes, University of Palermo, Italy

Invited: *Personalized Detection of Explosive Cough Events in Patients With Pulmonary Disease*

Paulo Carvalho, University of Coimbra, Coimbra, Portugal

1570625008	<i>Personalized Detection of Explosive Cough Events in Patients With Pulmonary Disease</i>	Bruno M Rocha, Diogo Pessoa, Paulo Carvalho and Rui Pedro Paiva (University of Coimbra, Portugal)
1570624376	<i>The quality concern in health care Big Data</i>	Giandomenico Nollo and Andrea Molinari (University of Trento, Italy)
1570624101	<i>Low invasive multisensor acquisition system for real-time monitoring of cardiovascular and respiratory parameters</i>	Riccardo Pernice, Antonino Parisi and Saverio Guarino (University of Palermo, Italy); Giorgio Fallica (STMicroelectronics, Italy); Vincenzo Vinciguerra (STMicroelectronics, Italy); Giuseppe Ferla (STMicroelectronics, Italy); Luca Faes (University of Palermo, Italy); Alessandro Busacca (Università di Palermo, Italy)
1570624945	<i>Patient-specific Fluid Dynamical Evaluation of Hypoplastic Left Heart Syndrome Surgical Treatment</i>	Giuseppe D'Avenio (Istituto Superiore di Sanità, Italy); Aurelio Secinaro and Antonio Amodeo (Bambino Gesù Pediatric Hospital, Italy); Mauro Grigioni (Istituto Superiore di Sanità, Italy)
1570624536	<i>Prediction of Cardiovascular Complications in Diabetes from Pharmacy Administrative Claims</i>	Enrico Longato and Gian Paolo Fadini (University of Padova, Italy); Giovanni Sparacino (University of Padua, Italy); Lorenzo Gubian (Regione Veneto, Italy); Barbara Di Camillo (University of Padova, Italy)
1570624727	<i>Heart left ventricle segmentation in ultrasound images using deep learning</i>	Tijana Sustersic (Faculty of Engineering, University of Kragujevac & Bioengineering Research and Development Center (BioIRC), Serbia); Milos Anic (Faculty of Engineering, University of Kragujevac, Serbia); Nenad Filipovic (University of Kragujevac, Serbia)

Session 3.3 Neural and Cognitive Engineering: Methods and Technological Solutions

Chairs:

Anna Maria Bianchi, Politecnico di Milano, Italy

Kleanthis Neokleous, RISE Research Center on Interactive Media and Emerging Technologies, University of Cyprus, Cyprus

1570627540	<i>EEG monitoring during software development</i>	Alessandra Calcagno and Stefania Coelli (Politecnico di Milano, Italy); Ricardo Couceiro and João Durães (Universidade de Coimbra, Portugal); Caterina Amendola, Ileana Pirovano, Rebecca Re and Anna M. Bianchi (Politecnico di Milano, Italy)
1570628320	<i>Physiological responses related to pleasant and unpleasant sounds</i>	Corinna Vitale, Paola De Stefano, Riccardo Lolatto and Anna M. Bianchi (Politecnico di Milano, Italy)
1570628260	<i>Design and Implementation of Steady State Visual Evoked Potential Based Brain Computer Interface Video Game</i>	Elifsu Filiz (İstanbul Bilgi University, Turkey)
1570625004	<i>CogAR: an augmented reality App to improve quality of life of the people with cognitive impairment</i>	Mirko Rossi (Sapienza, University of Rome & Istituto Superiore di Sanità, Italy); Sandra Morelli, Giuseppe D'Avenio and Mauro Grigioni (Istituto Superiore di Sanità, Italy)
1570624286	<i>Neonatal Seizures Detection using Stationary Wavelet Transform and Deep Neural Networks: Preliminary Results</i>	Lorenzo Frassinetti (University of Siena, Italy); Daniele Ermini and Rachele Fabbri (University of Florence, Italy); Claudia Manfredi (Università degli Studi di Firenze, Italy)
1570624791	<i>Technical Solution for Burnout, the Modern Age Health Issue</i>	Monica Leba, Simona Riurean, Andreea Ionica and Yonis Nassar (University of Petrosani, Romania)

Session 3.4 Advances in Medical Informatics for HealthCare Applications

Chairs:

Efthymoulos Kyriacou, Frederick University, Cyprus

Silvana Quaglini, University of Pavia, Italy

1570630274	<i>eEmergency System to Support Emergency call Evaluation and Ambulance dispatch Procedures</i>	Efthymoulos Kyriacou (Frederick University Cyprus, Cyprus); George Hadjichristofi (European University Cyprus, Cyprus); Constantinos Pattichis (University of Cyprus, Cyprus)
1570618021	<i>A Novel Algorithm for the Design of Ketogenic Meals</i>	Giordano Lanzola, Federica Pellegrino and Cinzia Ferraris (University of Pavia, Italy); Silvana Quaglini (Università di Pavia, Italy)
1570628307	<i>Co-creation of Virtual Reality Re-usable Learning objectives of 360° video scenarios for a Clinical Skills course</i>	Eirini C. Schiza, Marios Hadjiaros, Maria Matsangidou, Fotos Frangoudes and Kleanthis Neocleous (RISE, Cyprus); Evangelia Gkougkoudi (University of Cyprus & Medical School, Cyprus); Stathis Konstantinidis (University of Nottingham, United Kingdom (Great Britain)); Constantinos Pattichis (University of Cyprus, Cyprus)
1570624980	<i>Proposal of an Architecture to support High Quality Automatic Data Collection in the context of Multi-Centric Studies</i>	Sara Mora (University of Genoa, Italy); Mauro Giacomini (University of Genoa, Italy); Elena Lazarova (University of Genoa, Italy)
1570628365	<i>Molecular docking of ursolic acid and ATPase of Staphylococcus aureus for antibacterial therapy</i>	Norbert Maggi, Anna Maria Schito, Valeria Iobbi and Angela Bisio (University of Genoa, Italy); Carmelina Ruggiero and Mauro Giacomini (University of Genoa, Italy)
1570624815	<i>A Nested U-Net Approach for Brain Tumour Segmentation</i>	Neil Micallef, Dylan Seychell and Claude Bajada (University of Malta, Malta)
1570624750	<i>An Efficacious MRI Sparse Recovery Method Based on Differential Under-Sampling and k-Space Interpolation</i>	Henry Kiragu, Elijah Mwangi and George Kamucha (University of Nairobi, Kenya)

Session 3.5 Biotechnologies: Advanced Devices and Sensors

Chairs:

Almir Badnjević, Faculty of Engineering and Natural Sciences, International Burch University Sarajevo, Bosnia and Herzegovina
Steffen Leonhardt, RWTH Aachen University, Germany

Keynote Track 3: *Developing and application of electronic noses in health care*

Andreas Voss (Ernst-Abbe-Hochschule, Jena, Germany)

1570624579	<i>Silicon dosimeters based on Floating Gate Sensor: design, implementation and characterization</i>	Cristiano Calligaro (RedCat Devices srl, Italy); Aldo Parlato (BlackCat Beyond srl, Italy); Elio Tomarchio (Università degli Studi di Palermo, Italy); Evgeny Pikhay (TowerJazz, Israel); Umberto Gatti (RedCat Devices, Italy); Yakov Roizin (Tower Semiconductor Ltd., Israel)
1570624585	<i>Fogging effect correction of Gafchromic HD-V2 film response for its use in high-dose radiotherapy</i>	Cristiano Calligaro (RedCat Devices srl, Italy); Aldo Parlato (BlackCat Beyond srl, Italy); Elio Tomarchio (Università degli Studi di Palermo, Italy)
1570624685	<i>A Highly-Configurable Full-Field Stimulus Source for Electroretinography</i>	Giulia Crocioni and Giambattista Grusso (Politecnico di Milano, Italy); John Hetling (UIC, USA)
1570624793	<i>Study on ANN based Upper Limb Exoskeleton</i>	Monica Leba, Marius Risteiu, Andreea Ionica and Olimpiu Stoicuta (University of Petrosani, Romania)
1570624967	<i>Ascorbic Acid determination using linear sweep voltammetry on flexible electrode modified with gold nanoparticles and reduced graphene oxide</i>	Francesca Mazzara, Bernardo Patella and Giuseppe Aiello (Università di Palermo, Italy); Carmelo Sunseri (Università degli Studi di Palermo, Italy); Rosalinda Inguanta (University of Studies of Palermo, Italy)

Session 3.6 Bio-electromagnetic Modelling

Chairs:

Paolo Ravazzani, Institute of Electronics, Information and Telecommunications, CNR, Milano, Italy
Elisa Francomano, University of Palermo, Italy

1570625286	<i>Analysis of ionic channel currents under nsPEFs-stimulation by a circuital model of an excitable cell</i>	Patrizia Lamberti and Vincenzo Tucci (University of Salerno, Italy); Olga Zeni (CNR, Italy); Stefania Romeo (CNR-IREA, Italy)
1570624990	<i>Mathematical modelling of nuclear medicine data</i>	Michele Piana (Università di Genova); Giacomo Caviglia and Sara Sommariva (Università di Genova, Italy)
1570624774	<i>Localization of neural activity from neuromagnetic data using varying-support sources</i>	Cristina Campi (Università degli Studi di Padova, Italy)
1570624549	<i>Numerical modelling of temperature increase induced by transcutaneous Spinal Direct Current Stimulation (tsDC)</i>	Serena Fiocchi (CNR IEIIT Institute of Electronics, Computer and Telecommunication Engineering); Marta Bonato (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni IEIIT CNR, Italy); Emma Chiaramello (CNR IEIIT Institute of Electronics, Computer and Telecommunication Engineering, Italy); Silvia Gallucci (CNR Consiglio Nazionale delle Ricerche, Italy); Gabriella Tognola (CNR IEIIT - CNR Institute of Electronics, Computer and Telecommunication Engineering, Italy); Paolo Ravazzani (CNR, Italy); Marta Parazzini (IEIIT CNR, Italy)
1570624563	<i>Stochastic Dosimetry applied on a low frequency Near-Field Source Scenario</i>	Marta Bonato (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni IEIIT CNR, Italy); Emma Chiaramello (CNR IEIIT Institute of Electronics, Computer and Telecommunication Engineering, Italy); Serena Fiocchi (Consiglio Nazionale delle Ricerche, Italy); Silvia Gallucci (CNR Consiglio Nazionale delle Ricerche, Italy); Laura Dossi (CNR-IEIIT, Italy); Gabriella Tognola (CNR IEIIT - CNR Institute of Electronics, Computer and Telecommunication Engineering, Italy); Paolo Ravazzani (CNR, Italy); Marta Parazzini (IEIIT CNR, Italy)
1570624802	<i>Fake Nodes approximation for Magnetic Particle Imaging</i>	Stefano De Marchi (Università degli Studi di Padova, Italy); Wolfgang Erb (University of Padova, Italy); Elisa Francomano (Università di Palermo, Italy); Francesco Marchetti, Emma Perracchione and Davide Poggiali (University of Padova, Italy)
1570625022	<i>An advanced numerical treatment of EM absorption in human tissue</i>	Guido Ala (Università degli Studi di Palermo, Italy); Elisa Francomano, Marta Paliaga and Monica Millunzi (Università di Palermo, Italy)

TRACK 4 – SMART GRIDS

Session 4.1 Smart and sustainable islands

Chairs:

Enrico De Tuglie, Politecnico di Bari, Italy

Marina Bonomolo, University of Palermo, Italy

1570622217	<i>Discrete Event Controllers for Grids` Lines</i>	Calin Ciufudean (Stefan cel Mare University, Romania)
1570624848	<i>Space charge accumulation in undersea HVDC cables as function of heat exchange conditions at the boundaries - water-air interface</i>	Giuseppe Rizzo (Università degli Studi di Palermo, Italy); Pietro Romano (University of Palermo, Italy); Antonino Imburgia (University of Studies of Palermo, Italy); Fabio Viola (University of Palermo, Italy); Giuseppe Schettino (University of Studies of Palermo, Italy); Graziella Giglia (Università degli Studi di Palermo, Italy); Guido Ala (Università degli Studi di Palermo, Italy)
1570625048	<i>Flexibility Services in a Mediterranean Small Island to Minimize Costs and Emissions Related to Electricity Production from Fossil Fuels</i>	Domenico Curto (University of Palermo, Italy); Vincenzo Franzitta (University of Palermo, Italy); Sonia Longo (University of Palermo, Italy); Francesco Montana (University of Palermo, Italy); Eleonora Riva Sanseverino (University of Palermo, Italy); Enrico Telaretti (Università degli Studi di Palermo, Italy)
1570627280	<i>Experimental results on the economic management of a smart microgrid</i>	Enrico De Tuglie (Politecnico di Bari, Italy); Alessia Cagnano (Politecnico di Bari, Italy); Salvatore Favuzza (Università di Palermo, Italy); Gaetano Zizzo (University of Palermo, Italy); Desire Rasolomampionona (Warsaw University of Technology, Poland); Mariusz Klos (Warsaw University of Technology, Poland); Francesco Marcone (Polytechnic University of Bari, Italy); Giuseppe Porro (Polytechnic University of Bari, Italy)
1570627711	<i>Optimal management of islanded distribution networks including multi-energy storage units</i>	Andrea Cervi (University of Padova, Italy); Massimiliano Coppo (University of Padova, Italy); Marco Agostini (University of Padova, Italy); Roberto Turri (University of Padova, Italy)
1570628272	<i>Grid-connected DC-link voltage limits for fast frequency response</i>	James Amankwah Adu (University of Bologna, Italy); Fabio Napolitano (University of Bologna, Italy); Carlo Alberto Nucci (University of Bologna, Italy); Juan Diego Rios Penaloza (University of Bologna, Italy); Fabio Tossani (Università di Bologna, Italy)

1570628374	<i>Sizing and operation of a residential PV-battery system: Rule-Based and real time vs optimization and perfect foresight</i>	Elena Sedano-Ruiz (Universidad de Malaga, Spain); Jesus Huete-Cubillo (Universidad de Malaga, Spain); Jorge de la Vega-Rodriguez (Universidad de Malaga, Spain); Sebastian Martin Rivas (University of Malaga, Spain)
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Session 4.2 Net zero energy systems

Chairs:

Giorgio Graditi, ENEA, Italy

Georgios Christoforidis, Western University of Macedonia, Greece

Keynote: *Cyber Security and Big Data Issues for Smart Grid Systems*

Seref Sagioglu (Gazi University, Turkey)

1570618003	<i>Rotor Speed Fluctuation Analysis for Rapid De-Loading of Variable Speed Wind Turbines</i>	Fan Xinkai (University of Pisa & Xi'an Jiaotong University, Italy); Emanuele Crisostomi (University of Pisa, Italy); Baohui Zhang (Xi'an Jiaotong, China); Dimitri Thomopoulos (University of Pisa, Italy)
1570624486	<i>Comparing indoor performances of a building equipped with four different roof configurations in 65 Italian sites</i>	Maria La Gennusa (University of Palermo, Italy); Laura Cirrincione (University of Palermo, Italy); Giorgia Peri (University of Palermo, Italy); Gianfranco Rizzo (University of Palermo, Italy); Gianluca Scaccianoce (University of Palermo, Italy)
1570624491	<i>Passive components for reducing environmental impacts of buildings: analysis of an experimental green roof</i>	Maria La Gennusa (University of Palermo, Italy); Laura Cirrincione (University of Palermo, Italy); Concettina Marino (University of Reggio Calabria, Italy); Antonino Nucara (University of Reggio Calabria, Italy); Giorgia Peri (University of Palermo, Italy); Antonino Marvuglia (Luxembourg Institute of Science and Technology, Luxembourg)
1570624495	<i>Retrofitting existing buildings by means of innovative envelope components: low-impacting new assemblies</i>	Maria La Gennusa (University of Palermo, Italy); Laura Cirrincione (University of Palermo, Italy); Concettina Marino (University of Reggio Calabria, Italy); Antonino Nucara (University of Reggio Calabria, Italy); Giorgia Peri (University of Palermo, Italy); Gianfranco Rizzo (University of Palermo, Italy); Gianluca Scaccianoce (University of Palermo, Italy)

Session 4.3 The Mediterranean Energy Hub

Chairs:

Tuan-Quoc Tran, CEA-INES, France

Jaser A. Sa'ed, Birzeit University, Palestine

1570617679	<i>Fault detection based on ROCOV and ROCOC for multi-terminal HVDC systems</i>	Maria Jose Perez Molina (University of the Basque Country UPV/EHU, Spain); Marene Larruskain (University of the Basque Country UPV/EHU, Spain); Pablo Eguia (University of the Basque Country, Spain); Victor Valverde Santiago (University of the Basque Country UPV/EHU, Spain)
1570623723	<i>A Smart Sensing Method for Real-Time Monitoring of Low Voltage Series-Arc-Fault</i>	Guido Ala (Università degli Studi di Palermo, Italy); Giovanni Artale (Università di Palermo, Italy); Antonio Cataliotti (Università degli Studi di Palermo, Italy); Valentina Cosentino (University of Palermo, Italy); Claudio Fontana (Università degli Studi di Palermo, Italy); Pietro Romano (University of Palermo, Italy); Fabio Viola (University of Palermo, Italy)
1570625042	<i>Wind Power Production based on DFIG: Modeling and Control by ADRC</i>	Abdeslam Jaballaafou (National School of Applied Sciences, Ibn Tofail University, Morocco); Abdessalam Ait Madi (Ibn Tofail University, Morocco); Adnane Addaim (ENSA Kenitra, Morocco)
1570628056	<i>Dependability Analysis of a Digital Excitation Control System</i>	Andrea Vicenzutti (University of Trieste, Italy); Massimiliano Chiandone (University of Trieste, Italy); Giorgio Sulligoi (University of Trieste, Italy)
1570628360	<i>A co-simulation approach for validating agent-based distributed algorithms in smart grid</i>	Minh Tri Le (CEA-INES, France); Tung Lam Nguyen (G2elab, France); Tuan-Quoc Tran (CEA-INES, France); Yvon Bésanger (Grenoble Alpes University / G2Elab, France); Tran The Hoang (G2elab, France)
1570627548	<i>Oil & Gas Project: Achieve Power Flexibility, Improving Innovation, Integration and Sustainability</i>	Stefano Bertazzi (Raffineria di Milazzo, Italy)

Session 4.4 Demand response and prosumers' aggregation

Chairs:

Diego Arnone, Engineering S.p.A. - Italy

Franco Grasso, University of Firenze, Italy

Invited: *Contribution of smart prosumers to the grid reliability*

Diego Arnone (Engineering I.I. S.p.A.)

part 1

1570624523	<i>Dynamic Coalitions of Prosumers in Virtual Power Plants for Energy Trading and Profit Optimization</i>	Giuseppe Raveduto (Engineering Ingegneria Informatica Spa, Italy); Vincenzo Croce (Engineering Ingegneria Informatica Spa, Italy); Marcel Antal (Technical University of Cluj-Napoca & Computer Science, Romania); Claudia Pop (Technical University of Cluj-Napoca, Romania); Ionut Anghel (Technical University of Cluj-Napoca, Romania); Tudor Cioara (Technical University of Cluj-Napoca, Romania)
1570624766	<i>Implementation of a Management System for Prosumer Energy Storage Scheduling in Smart Grids</i>	Giovanni Artale (Università di Palermo, Italy); Giuseppe Caravello (University of Palermo, Italy); Antonio Cataliotti (University of Palermo, Italy); Valentina Cosentino (University of Palermo, Italy); Salvatore Guaiana (University of Palermo, Italy); Dario Di Cara (National Research Council, Italy); Nicola Panzavecchia (National Research Council, Italy); Giovanni Tinè (National Research Council, Italy); Vincenzo Antonucci (National Research Council, Italy); Davide Aloisio (National Research Council, Italy), Nicola Giordano (ITAE, Italy); Giovanni Brunaccini (National Research Council, Italy), Marco Ferraro (National Research Council, Italy) Francesco Sergi (National Research Council, Italy)
1570614099	<i>Ensemble learning with time-series clustering for aggregated short-term load forecasting</i>	Petar Sarajcev (University of Split, Croatia); Damir Jakus (University of Split & Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Croatia); Josip Vasilj (University of Split, Croatia)
1570619487	<i>Unsupervised learning procedure for NILM applications</i>	Gilles Jacobs (Université Libre de Bruxelles, Belgium); Pierre Henneaux (Université Libre de Bruxelles, Belgium);
1570619939	<i>DEMAND Project: An algorithm for the assessment of the prosumers' flexibility</i>	Gaetano Zizzo (University of Palermo, Italy); Mariano Ippolito (University of Palermo, Italy); Eleonora Riva Sanseverino (University of Palermo, Italy); Rossano Musca (University of Palermo, Italy); Salvatore Favuzza (University of Palermo,

		Italy); Marzia Mammina (Engineering SPA, Italy); Diego Arnone (Engineering SPA, Italy); Michele Cacioppo (University of Palermo, Italy); Enrico Telaretti (University of Palermo, Italy)
1570622191	<i>Investigation of autoregressive forecasting models for market electricity price</i>	Vladimir Shikhin (National Research University "MPEI"); Anna Shikhina (National Research University Moscow Power Engineering Institute, Russia); Alexey Kochengin (NRU Moscow Power Engineering Institute, Russia)

Part 2

1570625001	<i>Blockchain-based DR logic: a trade-off between system operator's and customer's needs</i>	Giuseppe Sciume (University of Palermo, Italy); Francesco Montana (University of Palermo, Italy); Eleonora Riva Sanseverino (University of Palermo, Italy); Pierluigi Gallo (University of Palermo, Italy); Sonia Longo (University of Palermo, Italy)
1570625524	<i>A Comprehensive Comparison of Resonant Topologies for Magnetic Wireless Power Transfer</i>	Fabio Corti (University of Florence, Italy); Alberto Reatti (University of Florence, Italy); Libero Paolucci (University of Florence, Italy); Francesco Grasso (University of Florence, Italy); Luca Pugi (University of Florence, Italy); Emanuele Grasso (Saarland University, Germany); Matthias Nienhaus (Laboratory of Actuation Technology, Saarland University, Germany); Niccolo Tesi (Eldor Corporation, Italy)
1570628052	<i>A methodology for evaluating the energy flexibility potential of domestic air-conditioning systems</i>	Guido Ala (Università degli Studi di Palermo, Italy); Alessandra Di Gangi (University of Palermo, Italy); Gaetano Zizzo (University of Palermo, Italy)
1570628239	<i>Influence of Transformer Rating on Power Quality Indices in Low Voltage Residential Networks</i>	Pablo Rodríguez-Pajarón (Universidad Politécnica de Madrid, Spain); Araceli Hernández (Universidad Politécnica de Madrid, Spain); Jovica Milanovic (UoM, United Kingdom (Great Britain))
1570628243	<i>Optimal Scheduling of a Virtual Power Plant with Demand Response in Short-Term Electricity Market</i>	Homa Rashidizadeh-Kermani (University of Birjand, Iran); Mostafa Vahedipour-Dahraie (University of Birjand, Portugal); Miadreza Shafie-khah (University of Vaasa, Finland); Gerardo J. Osório (University of Beira Interior & CMAST-UBI, Portugal); João Catalão (FEUP - Faculty of Engineering of the University of Porto, Portugal)
1570628288	<i>Optimal Planning of CHP-based Microgrids Considering DERs and Demand Response Programs</i>	Saeid Qaeini (Shahid Beheshti University, Iran) Mehrdad Nazar (Shahid Beheshti University, Iran); Miadreza Shafie-khah (University of Vaasa, Finland); Gerardo J. Osório (University of Beira Interior & CMAST-UBI, Portugal); João Catalão (FEUP - Faculty of Engineering of the University of Porto, Portugal)

4.5 Special Technical Session - Italian Divertor Tokamak Test Facility

Chair:

Dr. Pietro Zito, ENEA, Italy

Invited: *Status and main technological challenges of the EU DEMO nuclear fusion reactor. Research activity at the University of Palermo*
Pietro A. Di Maio (University of Palermo)

1570628040	<i>Status and main technological challenges of the EU DEMO nuclear fusion reactor. Research activity at the University of Palermo</i>	Pietro A. Di Maio (University of Palermo, Italy); Ilenia Catanzaro (University of Palermo, Italy); Pierluigi Chiovaro (University of Palermo, Italy); Ruggero Forte (University of Palermo, Italy); Ivo Moscato (University of Palermo, Italy); Andrea Quartararo (University of Palermo, Italy); Eugenio Vallone (University of Palermo, Italy)
1570624546	<i>Advanced Image-Processing for the Estimation of Pitch Angle for Runaway Electrons in Tokamaks</i>	Concetta Barcellona (DIEEI, University of Catania, Italy); Maide Bucolo (University of Catania, Italy); Giovanna Stella (DIEEI, University of Catania, Italy); Arturo Buscarino (Università degli Studi di Catania, Italy); Luigi Fortuna (Università degli Studi di Catania, Italy); Giuseppe Mazzitelli (ENEA, Italy); Basilio Esposito (ENEA, Italy)
1570627988	<i>Conceptual Design and Modeling of the Toroidal Field Coils Circuit of DTT</i>	Pietro Zito (ENEA, Italy); Giordano Tomassetti (ENEA, Italy); Giuseppe Messina (ENEA, Italy); Luigi Morici (ENEA, Italy); Chiarasole Zignani (ENEA, Italy); Alessandro Lampasi (ENEA, Italy); Guido Ala (Università degli Studi di Palermo, Italy); Gaetano Zizzo (University of Palermo, Italy); Carmelo Riccardo Lopes (University of Palermo & ENEA, Italy)
1570628045	<i>Conceptual Design and Modeling of Fast Discharge Unit for Quench Protection of Superconducting Toroidal Field Magnets of DTT</i>	Carmelo Riccardo Lopes (University of Palermo & ENEA, Italy); Pietro Zito (ENEA, Italy); Alessandro Lampasi (ENEA, Italy); Guido Ala (Università degli Studi di Palermo, Italy); Gaetano Zizzo (University of Palermo, Italy); Eleonora Riva Sanseverino (University of Palermo, Italy)
1570628213	<i>The Heating & Current Drive System of DTT</i>	Gustavo Granucci (Institute for Plasma Science and Technology & CNR, Italy); Silvio Ceccuzzi (Roma Tre University, Italy); Gianluca Ravera (Fusion and Nuclear Safety Department ENEA, Italy); Alessandro Bruschi (Institute for Plasma Science and

		Technology, Italy); Saul Garavaglia (Institute for Plasma Science and Technology, Italy); Piero Agostinetti (Consorzio RFX, Italy); Alberto Ferro (Consorzio RFX, Italy); Afra Romano (Fusion and Nuclear Safety Department ENEA, Italy)
1570628356	<i>Poloidal Power Supply System of the Divertor Tokamak Test (DTT) Facility</i>	Alessandro Lampasi (ENEA, Italy); Alessandro Cocchi (University of Rome Sapienza, Italy); Roberto Romano (ENEA, Italy); Pietro Zito (ENEA, Italy)
1570633395	<i>DTT's Role, Characteristics & Design Status</i>	Raffaele Martone (Universita' degli Studi della Campania Luigi Vanvitelli, Italy); Alessandro Lampasi (ENEA, Italy); Gian Mario Polli (ENEA, Italy); Giuseppe Di Gironimo (University of Naples Federico II, Italy); Giuseppe Ramogida (ENEA, Italy); Raffaele Albanese (University of Naples Federico II, Italy); Aldo Di Zenobio (ENEA, Italy); Selanna Roccella (ENEA, Italy); Flavio Crisanti (ENEA, Italy); Gustavo Granucci (Institute for Plasma Science and Technology & CNR, Italy); Alexander Rydzy (ENEA, Italy); Paolo Innocente (CNR, Italy); Piero Martin (University of Padua and RFX Consortium, Italy); Roberto Ambrosino (University of Naples Federico II, Italy); Sandro Sandri (ENEA, Italy); Marco Valisa (RFX Consortium, Italy); Rosaria Villari (ENEA, Italy); Aldo Pizzuto (DTT S. c. r. l., Italy); Antonio Cucchiaro (DTT S. c. r. l., Italy)