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Nota di contenuto	Electronics, Informatics and Telecommunications -- Enhance the QoE for Smartphone Applications: an API approach for QoS control in LTE-A -- User Initiated Fast Identity Switch Between LTE UEs -- One-shot SPICE Simulation of Photovoltaic Modules, Storage Elements, Inverter and Load -- Evolution of Marine Radar: Practical Effects on Vessel Traffic Safety -- LTE Services over the 800 MHz Band: Interference Effects on DVB-T Channels caused by the Uplink Signal -- High-Field Enhancement Factor in Photonic Nanostructures -- Color Encoding of Phase: a new Step in Imaging by Structured Light and Single Pixel Detection -- Physiological Parameters Measurements in a Cardiac Cycle via a Combo PPG-ECG System -- A Novel Multimedia-Multisensorial 4D Platform -- Experimental and Simulation Investigation on the TCP Performance for Wireless Broadband Environment -- Wireless M2M Capacity Analysis for Smart Distribution Grids -- A Hybrid Approach to Enterprise Business Models -- Embedded Surveillance System Using Background Subtraction and Raspberry PI -- A Layout Strategy for Low-Power Voltage Level Shifters in 28nm UTBB FDSOI Technology -- Hardware Implementation of a Test Lab for Smart Home Environments -- SMPS with Zero Standby Power for Electronic Household Equipment -- Study of Raman Amplification in Nanostructured Materials -- MEMS force microactuator with displacement sensing for mechanobiology

experiments -- Energy -- Technology Venturing and Universities: a Key Driver for Sustainable Development -- Using Stormwater Detention Tanks as Storage System for Sustainable Energy Management in a Smart City Framework -- New Dispatching Strategy for the Integration of Active-Demand and Distributed Storage in the Electricity Market -- The E-Vision Project: Electric-Vehicle Integration for Smart Innovative 0-CO<sub>2</sub> Networks -- Techno-Economic Evaluation of Photovoltaic Installations Located on the Premises of an End-Use Electric Consumer -- Optimization of energy exchanges in utility grids with applications to residential, industrial and tertiary cases -- Methodology for the Optimal Siting and Sizing of Storage Systems in Distribution Networks -- A Receding Horizon Approach for the Power Flow Management with Renewable Energy and Energy Storage Systems -- Frequency constrained optimal Power Flow based on Glow-worm Swarm Optimization in Islanded Microgrids -- Integration of Droop Control Functions for Distributed Generation in Power Flow Simulations -- Applications of the Solid State Transformer Concept in the Electrical Power System -- The role of high efficiency trigeneration plants within sustainable smart microgrids: performance analysis and experimental tests -- Terminal stations Design for Submarine HVAC Links - Capri-Italy and Malta-Sicily Interconnections -- A Vision of Change for the Mediterranean Electricity Systems -- Dynamic Line Rating of Overhead Lines by Cooperative and SelfOrganizing Sensor Networks -- A Dynamic Equivalencing Preliminary Study on ENTSO-E CESA Power System -- Sodium Nickel Chloride Cell Model for Stationary Electrical Energy Storage -- Operating Strategies for Congestion Management of HV Lines Using NaS Batteries -- Influence of Management and System Configuration on Performances and Lifetime of Lithium-Ion Batteries -- Modelling of Outages Occurrence in Medium Voltage Power Lines -- Test Facility for Control System Validation in Electric Industrial Plants -- User Friendly Smart Distributed Measurement System for Monitoring and Assessing the Electrical Power Quality -- Thermal Behavior of Distribution MV Underground Cables -- Transportation and Mobility Systems -- Functional Safety of Railway Systems -- Application of Battery Auxiliary Substations in 3kV Railway Systems -- An 'on scale' simulator for urban DC railway traction application -- Toward the Future: the MVDC Large Ship Research Program -- Zonal Electrical Distribution Systems in Large Ships: Topology and Control -- Energy Optimization of Hybrid Vehicles: A General, Suboptimal Analysis -- The Automation Control Systems for the Efficiency of Metro Transit Lines -- Kinematic Formulation of Energy-Efficient Train Speed Profiles -- Conversion Systems for Braking Energy Recovery in 3 kVDC Railway Lines -- Object Oriented Simulation of Longitudinal Train Dynamics - Efficient Tools to Optimize Sustainability and Efficiency of Railway Systems -- A Stochastic Approach for Assessing Intervention Strategies in the Case of Metro System Failures -- Advanced Technologies -- Analysis of Bovine Sperm Cells by a Combined Holographic and Raman Microscopy Approach -- Applying a Kalman Smoother to Synchrophasor Estimation -- Experimental Analysis of Mechanical Vibrations and wind Speed for a Rail Vehicle WSN fed by Energy Harvesters -- Experimental Study of BIPV (Building Integrated Photovoltaics) Modules Running as Solar Passive Air Heaters for the Regeneration of a Desiccant Wheel -- Development of Sensorless PM Servo-System for Harsh Environments -- A Ten-Parameter Model for the Static Hysteresis Simulation of Ferromagnetic Materials -- Effective Permeability of Shielding Mortars containing Ferromagnetic particles by using FEM -- EMI Filters Components Using Planar Magnetic Technology -- Design and experimental characterization of a low-cost,

real-time, wireless AC monitoring system based on ATmega 328P PU microcontroller -- DC Link Voltage Swinging and Load Current Unbalance in Fault Tolerant VSI. Overview and Compensation Strategies -- Local DoS Applications with Micro Wind Generation Systems -- Review of Acoustic Methods for Space Charge Measurement -- Comparison of Conventional and Meta-Heuristic Methods for Security Constrained OPF Analysis -- Energy Efficiency Index for Water Supply Systems -- Integrating Structural and Functional Brain Connectivity -- Brain Dynamics During Emotion Elicitation in Healthy Subjects: an EEG Study -- Analysis of Running Speech for the Characterization of Mood State in Bipolar Patients -- Acoustic Cavitation for Producing Foam in Sclerosant Drugs -- Bioengineering Activities in Proprioceptive and Robotic Rehabilitation at Salvatore Maugeri Foundation -- A Signal Decomposition Based Kalman Smoother for T-Wave Alternans Detection -- Natural and Synthetic Nanostructured Materials for Biomedical Applications -- Development of an Innovative Superconducting Magnetic Energy Storage System -- Micromagnetic Study of Skyrmion Racetrack and Microwave Oscillator -- Modeling of the Magnetocrystalline Cubic Anisotropy in Fe-Si Electrical Steels -- On the Accuracy of Vector Magnetization Measurements for FeSi Steel Sheets with Different Thicknesses and Different Grain sizes -- Experimental EMF Characterization of a Secondary Substation -- A Vision of Data-Based Decision Support System in Urban Retrofitting - From Passive House to Active Neighbourhood.

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#### Sommario/riassunto

AEIT Annual Conference will be related to EXPO 2015, the International event which is going to be held in Milan, which main topic is Feeding the Planet, Energy for Life. The first day of the conference will be scheduled in EXPO FAIR 2015 and will have presentations by the main companies which are contributing in the creation, for EXPO 2015, of a Smart Grid for power distribution, built with the most modern technologies available today, an Energy Management System of load control, energy flow optimization, integration of renewable energy plants and storages, and lighting management. In the following days technical Sessions will be organized focusing on all technologies which are in the AEIT mission, such as Energy, Electronics, Informatics, Telecommunications, Enabling Technologies.

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