

# **2021 IEEE 6th International Forum on Research and Technologies for Society and Industry (RTSI 2021)**

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# CONFERENCE PROGRAM

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**Monday, September 6**

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- 491 **Interpolation and Resampling Accuracy in the Processing of Input Data for Short-Term Dispatching of Large Power Systems**  
*Vincenzo Di Giorgio and Roberto Langella (University of Campania - Luigi Vanvitelli, Italy); Alfredo Testa (University of Campania Luigi Vanvitelli, Italy); Cristiano Martarelli (Terna S.P.A., Italy)*
- 497 **Analysis of the Uncertainty of EIS Battery Data Fitting to an Equivalent Circuit Model**  
*Francesco Santoni, Alessio De Angelis, Antonio Moschitta and Paolo Carbone (University of Perugia, Italy)*
- 502 **Analog-To-Digital Converter Dynamic Testing by Linearized Four-Parameter Sine-Fit Algorithm**  
*Daniel Belega (University of Timisoara, Romania); Dario Petri (University of Trento, Italy)*
- 507 **Using Data Acquisition Systems for Time Period Measurements Based on Averaging Approaches**  
*Leopoldo Angrisani and Mauro D'Arco (University of Naples Federico II, Italy); Domenicantonio Grillo (Università degli Studi di Napoli Federico II, Italy)*
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## **SESSION T2.6 - Smart Solutions for Communication, Navigation, and Surveillance**

**Room: Virtual Room #2**

**Chair:** Domenico Accardo

- 513 **RFID-Based Localization Enables a Smart System for Worker Safety**  
*Alice Buffi, Fabio Bernardini, Paolo Nepa, Mirko Marracci and Bernardo Tellini (University of Pisa, Italy); Luciano Di Donato, Marco Pirozzi, Laura Tomassini and Alessandra Ferraro (INAIL, Italy)*
- 519 **A Robust and Versatile Analog-To-Digital Converter for Space Exploration Spectroscopy on Satellites**  
*Marco Grassi and Piero Malcovati (University of Pavia, Italy)*
- 524 **Towards Automating Social Distance Violations Using AIoT**  
*Imran A. Zualkernan, Osameh Al-Kofahi, Amir Khan, Syed Zaidi and Karim Hassan (American University of Sharjah, United Arab Emirates)*
- 529 **Low Cost Equipment for Military Vehicle Location in Forest Areas**  
*Rubén León (Universidad de las Fuerzas Armadas ESPE, Ecuador); Alexis F. Tinoco-S. (Universidad de las Fuerzas Armadas - ESPE & Centro de Investigaciones en Aplicaciones Militares - CICTE, Ecuador); Daniela Cando and Manolo Paredes (Universidad de las Fuerzas Armadas ESPE, Ecuador); Fernando Lara (Universidad de las Fuerzas Armadas - ESPE, Ecuador)*
- 534 **A Smart Radar Signal Processing Solution for Ground-Based UAVs Surveillance**  
*Tianyuan Yang (Xidian University & University of Naples Federico II, China); Antonio De Maio (University of Naples "Federico II", Italy); Jibin Zheng and Tao Su (Xidian University, China); Vincenzo Carotenuto (University of Naples Federico II, Italy); Augusto Aubry (Università degli studi di Napoli, Italy)*
- 540 **Assessment of Navigation Capabilities of Mini Cheetah Robot for Monitoring of Landslide Terrains**  
*Paolo Arena, Fabio Di Pietro and Alessia Li Noce (Università Degli Studi Di Catania, Italy); Luca Patanè (University of Messina, Italy); Salvatore Taffara (Università Degli Studi Di Catania, Italy)*
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## **SESSION T3.8 - Biomedical Applications**

**Room: Virtual Room #3**

**Chair:** Serge Dos Santos

- 546 **Flexible Product Innovation Cycles for Smart Medical Devices**  
*Anna Schidek and Holger Timinger (University of Applied Sciences Landshut, Germany)*
- 552 **An Automatic Active Contour Approach to Segment Retinal Blood Vessels**  
*Isabella Poles and Eleonora D'Arnese (Politecnico di Milano, Italy); Marco D Santambrogio (Politecnico di Milano & MIT, Italy)*
- 558 **Sex Differences in the ECG Interpretation: A Functional Data Analysis Perspective**  
*Vera Maioli (Politecnico di Milano, Italy); Letizia Clementi (Politecnico di Milano & CADS, Center for Analysis Decisions and Society, Human Technopole, Italy); Marco D Santambrogio (Politecnico di Milano & MIT, Italy)*

- 564 **Thermal Ablation Techniques for Tumor Treatment: Open Measurement Issues From Research to Industry**  
*Gianni Cerro (University of Molise, Italy); Luigi Ferrigno (University of Cassino, Italy); Gianfranco Miele (University of Cassino and Southern Lazio, Italy)*
- 569 **Analysis and Classification of Patients With Acute Myocardial Infarction by Using Nonlinear Mixed-Effects Modeling**  
*Anna Procopio and Salvatore De Rosa (Università degli Studi Magna Graecia di Catanzaro, Italy); Giovanni Canino (University Magna Graecia & Catanzaro, Italy); Alessio Merola (Università degli studi Magna Graecia di Catanzaro, Italy); Jolanda Sabatino and Jessica Ielapi (Università degli Studi Magna Graecia di Catanzaro, Italy); Ciro Indolfi (University Magna Graecia of Catanzaro, Italy); Francesco Amato (University of Naples Federico II, Italy); Carlo Cosentino (Università degli Studi Magna Graecia di Catanzaro, Italy)*
- 574 **Soft Multi-Point Waveguide Sensor for Proprioception and Exteroception in Inflatable Fingers**  
*Ahmed Hassan and Faisal Aljaber (Queen Mary University of London, United Kingdom (Great Britain)); Hareesh Godaba (University of Sussex, United Kingdom (Great Britain)); Ivan Vitanov and Kaspar Althoefer (Queen Mary University of London, United Kingdom (Great Britain))*