

**ICT-DM 2023 - Paper Presentation Sessions**  
**@UniversityClub + CLA Laboratory**

<b>Wednesday, September 13</b> <b>University Club - CLA Laboratory</b>	
<b>16:15</b>	<p style="text-align: center;"><b>Session 1 – Chair: Carlos Calafate</b>  <b>5G/6G, LORA and UAV Technologies for DM</b>  Room: University Club</p> <p><b><i>O-RAN Neutral Hosting as a Viable Solution for First Responders Seamless Connectivity</i></b>  <i>Andrea Marotta</i> (University of L'Aquila, Italy); <i>Claudia Rinaldi</i> (CNIT National Inter-university Consortium for Telecommunications, Italy); <i>Carlo Centofanti</i> (University of L'Aquila, Italy); <i>Koteswararao Kondepu</i> (Indian Institute of Technology Dharwad, India); <i>Dajana Cassioli</i> (University of L'Aquila, Italy); <i>Fabio Graziosi</i> (University of L'Aquila, Italy)</p> <p><b><i>Surviving Disaster Events Via Dynamic In-Network Processing Assisted by Network Digital Twins</i></b>  <i>Federica de Trizio</i> (Politecnico di Bari, Italy); <i>Giancarlo Sciddurlo</i> (Politecnico di Bari &amp; CNIT, Italy); <i>Giuseppe Piro</i>, <i>Domenico Striccoli</i>, <i>Ilaria Cianci</i> and <i>Gennaro Boggia</i> (Politecnico di Bari, Italy)</p> <p><b><i>A Service Migration Strategy for Resilient Multi-Domain Networks in Outage Scenarios</i></b>  <i>Federico Giarre</i> (University of Rennes 1, France); <i>Yassine Hadjadj-Aoul</i> (University of Rennes, France); <i>Soraya Ait Chellouche</i> (University of Rennes 1, France)</p> <p><b><i>Drone Network Design for Environmental Emergency Response in the Brazilian Amazon</i></b>  <i>Janiele Custodio</i> (Morgan Stanley, USA); <i>Hernan Abeledo</i> (George Washington University, USA)</p>
<b>17:30</b>	<p style="text-align: center;"><b>Session 2 – Chair: Yassine Hadjadj-Aoul</b>  <b>Mobile and wireless communications for DM</b>  Room: University Club</p> <p><b><i>Optimized Scheduling of Packets with Deep Sensing Irregular Slotted Aloha Influenced by Channel Knowledge for Wireless-Powered IoT Networks</i></b>  <i>Muhammad Tauseef Mushtaq</i> (Politecnico di Bari, Italy); <i>Nicola Cordeschi</i> (University of Surrey, United Kingdom (Great Britain)); <i>Gennaro Boggia</i> and <i>Luigi Alfredo Grieco</i> (Politecnico di Bari, Italy)</p> <p><b><i>Guaranteeing critical communications by using fuzzy logic based intelligent control systems in Wi-Fi Networks</i></b>  <i>Xhulio Limani</i> (University of Antwerp, Belgium &amp; Imec, Belgium); <i>Gilson Miranda, Jr</i> (University of Antwerp &amp; Imec-IDLab, Belgium); <i>Carlos Filipe Moreira e Silva</i> (Federal University of Ceará, Brazil); <i>Xiaoman Shen</i>, <i>Chun Pan</i> and <i>Xingfeng Jiang</i> (Huawei Technologies Co. Ltd, China); <i>Chi Zhang</i> (Huawei Technologies Co. Ltd, Belgium); <i>Johann M. Marquez-Barja</i> (University of Antwerpen &amp; imec, Belgium)</p>

	<p><b><i>Semi-Narrow Band Ad-Hoc Wireless Communication System (SNB-AWCS) using VHF for Disaster Response</i></b>  <i>Cheikh Saliou Mbacke Babou</i> (National Institute of Information and Communications Technology (NICT), Japan); <i>Yasunori Owada</i> (National Institute of Information and Communications Technology, Japan); <i>Goshi Sato</i> (NICT, Japan)</p> <p><b><i>Use of QUIC Protocol for Efficient Data Transmission over Satellite in Emergency Scenario</i></b>  <i>Armir Bujari</i> (University of Bologna, Italy); <i>Mirko Franco</i> and <i>Claudio E. Palazzi</i> (University of Padua, Italy); <i>Mattia Quadrini</i> (RomARS, Italy); <i>Cesare Roseti</i> and <i>Francesco Zampognaro</i> (University of Rome Tor Vergata, Italy)</p>
--	--

<b>Thursday, September 14</b> <b>University Club - CLA Laboratory</b>	
10:30	<p><b>Session 3 – Chair: Constantinos Heracleous</b>  <b>Crowdsourcing and Social Media for DM</b>  Room: CLA Laboratory</p> <p><b><i>Study of the influence factors of social network crowdsourcing between a food delivery platform and delivers</i></b>  Chung-Hua Chu and Kuei-Yi Chen (National Taichung University of Science and Technology, Taiwan); Min-Chi Chiu (National Taiwan University of Science and Technology, Taiwan)</p> <p><b><i>Leveraging Supplementary Information for Multi-Modal Fake News Detection</i></b>  Chia-Chun Ho and Bi-Ru Dai (National Taiwan University of Science and Technology, Taiwan)</p> <p><b><i>Evolution of the Social Debate on Climate Crisis: Insights from Twitter during the Conferences of the Parties</i></b>  Liliana Martirano and Lucio La Cava (Università Della Calabria, Italy); Andrea Tagarelli (University of Calabria, Italy)</p> <p><b><i>Handcrafted Features Based Analysis of Social Media Images for Disaster Response</i></b>  Tanu Gupta (Indian Institute of Technology Roorkee, India); Sudip Roy (IIT Roorkee, India)</p>
10:30	<p><b>Session 4 – Chair: Giovanni Giambene</b>  <b>Prediction and Early Warning Systems in DM</b>  Room: University Club</p> <p><b><i>Hydrological and structural monitoring for flood risk mitigation in Cosenza urban area (southern Italy)</i></b>  Antonio Bilotta, Daniela Biondi, Giovanna Capparelli, Antonio Madeo and Francesco S. Liguori (University of Calabria, Italy)</p> <p><b><i>Determining the Accuracy of Reinforced Model via Sentiment and Technical Analysis as a Stock Market Prediction Technique</i></b>  Shubham Agrawal and Nitin Kumar (Netaji Subhas University of Technology, India); Geetanjali Rathee (Netaji Subhas University of Technology &amp; Dwarka, Sector-3, New Delhi, India); Carlos T. Calafate (Universidad Politécnica de Valencia, Spain); Chaker Abdelaziz Kerrache (University of Laghouat, Algeria)</p>

	<p><b><i>Enhancing health care infrastructure resiliency through an agent-based simulation methodology</i></b>  David Carramiñana (Universidad Politécnica de Madrid &amp; Information Processing and Telecommunications Center, Spain); Ana M. Bernardos, Juan Besada and Jose R Casar (Universidad Politecnica de Madrid, Spain)</p> <p><b><i>Smart and Innovative Systems for Urban Flood Risk Management</i></b>  Patrizia Piro, Mohammed Mudhafar Saleh Saleh, Behrouz Pirouz, Michele Turco and Stefania Anna Palermo (University of Calabria, Italy)</p> <p><b><i>Ground-Based Interferometric Radar systems for natural hazard real-time emergency monitoring</i></b>  Alessandro Pettinari (IDS GeoRadar srl, Italy); Matthias Twardzik (Hexagon AB, Italy); Giulio Telleschi (IDS GeoRadar srl, Italy)</p>
11:50	<p><b>Session 5 – Chair: Kurt Geihs</b>  <b>5G/6G, LORA and UAV Technologies for DM</b>  Room: University Club</p> <p><b><i>Implementing Mission-Critical UAV Swarm Coordination through the Integration of LoRa and ROS Frameworks</i></b>  Panayiotis Kolios (University of Cyprus, Cyprus); Georgios Ellinas (University of Cyprus &amp; KIOS Research and Innovation Center of Excellence, Cyprus); Maria Karatzia (KIOS Research and Innovation Center of Excellence, Cyprus)</p> <p><b><i>Role of UAVs and HAPS for IoT-based Monitoring in Emergency Scenarios</i></b>  Alessandro Andreadis, Giovanni Giambene and Riccardo Zambon (University of Siena, Italy)</p> <p><b><i>SDN-driven Dynamic Deployment of IDS with Load Balancing for Drones in Emergency Scenarios</i></b>  Mauro Tropea (Università della Calabria, Italy); Mattia Giovanni Spina and Floriano De Rango (University of Calabria, Italy)</p> <p><b><i>Multi-UAV Wildfire Perimeter Monitoring System</i></b>  Constantinos Heracleous, Panayiotis Kolios and Christos Panayiotou (University of Cyprus, Cyprus)</p>
16:15	<p><b>Session 6 – Chair: Annalisa Socievole</b>  <b>AI, Big data, and analytics for DM</b>  Room: University Club</p> <p><b><i>User Intervention in Disaster Management Systems for Resilient Smart Cities</i></b>  Kurt Geihs (University of Kassel, Germany)</p> <p><b><i>Forecasting Tsunami Waves using Regression Trees</i></b>  Eugenio Cesario (University of Calabria, Italy); Salvatore Giampà (Dtok Lab, Italy); Enrico Baglione (University of Bologna, Italy); Louise Cordrie (INGV, Italy); Jacopo Selva (University of Naples Federico II, Italy); Domenico Talia (University of Calabria, Italy)</p>

	<p><b><i>Exploring the Impact of Disrupted Peer-to-Peer Communications on Fully Decentralized Learning in Disaster Scenarios</i></b> Luigi Palmieri, Chiara Boldrini, Lorenzo Valerio, Andrea Passarella and Marco Conti (IIT-CNR, Italy)</p> <p><b><i>Research on Mobile Network User Complaint Warning Method Based on Multimodal Data</i></b> Zixiang Di (Research Institute of China United Network Communications Corporation, China); Tian Xiao (China Unicom Research Institute, China); Bei Li (China Unicom, China); Yunfeng Peng (University of Science and Technology Beijing, China); Jianfei Li (ChinaUnicom, China); Xinzhou Cheng (China Unicom Network Technology Research Institute, China); Lexi Xu (China Unicom Research Institute &amp; Queen Mary University of London, China); XiaoMeng Zhu (China Unicom Research Institute, China); HangBo Zheng (Zhejiang Airport Digital Technology Co., Ltd, China)</p>
<p><b>Friday, September 15</b> <b>University Club - CLA Laboratory</b></p>	
10:45	<p><b>Session 7 – Chair: Andrea Pugliese</b> <b>Distributed Systems and Applications for DM</b> Room: University Club</p> <p><b><i>A Study on Energy Efficiency in Edge-assisted VR Applications with Meta Quest 2 for Disaster Management</i></b> Lorenzo Romagnoli and Gabriele Proietti Mattia (Sapienza University of Rome, Italy); Roberto Beraldi (Sapienza Università di Roma, Italy)</p> <p><b><i>Privacy-Aware Crowd Monitoring and WiFi Traffic Emulation for Effective Crisis Management</i></b> Riccardo Rusca, Alex Carluccio, Diego Gasco and Paolo Giaccone (Politecnico di Torino, Italy)</p> <p><b><i>A Stubborn based Strategy for Vehicles Recovery during Dangerous Events</i></b> L Luigi D'Alfonso (University of Calabria, UNICAL, Italy); Giuseppe Fedele and Francisco Ramiro Ulloa Herrera (University of Calabria, Italy)</p> <p><b><i>Keyword-based multimedia data lookup in decentralized systems</i></b> Emanuele Fazzini (University of Bologna, Italy); Mirko Zichichi (Universidad Politécnica de Madrid, Spain); Stefano Ferretti (University of Urbino, Italy); Gabriele D'Angelo (University of Bologna, Italy)</p>
12:15	<p><b>Session 8 – Chair: Luigi D'Alfonso</b> <b>Distributed Systems and Applications, Activity Modeling and Simulation Tools, 5G/6G LORA and UAV Technologies for DM</b> Room: University Club</p> <p><b><i>Multi-Hop LoRa Communication for Natural Disaster Management: A Field Test</i></b> Giuseppe Marrara, Chiara Suraci, Angelo Tropeano, Giuseppe Bombino and Giuseppe Araniti (University Mediterranea of Reggio Calabria, Italy)</p> <p><b><i>Emergency management in a Smart Campus: Case Studies and Future Directions</i></b> Giovanni Delnevo, Silvia Mirri and Paola Salomoni (University of Bologna, Italy); Vittorio Ghini (Università di Bologna, Italy)</p>

	<p><b><i>Activity Modeling and Detection for Emergency Response</i></b> Andrea Pugliese (University of Calabria, Italy)</p> <p><b><i>Assessing Time Behaviour in Disaster Management by Using Petri Nets and Model Checking</i></b> Franco Cicirelli (CNR - National Research Council, Italy); Libero Nigro (University of Calabria, DICES, Italy)</p> <p><b><i>Infrastructure-less Long-Range Text-Messaging System</i></b> Batyrkhan Baimukhanov and Dimitrios Zorbas (Nazarbayev University, Kazakhstan)</p>
12:15	<p><b>Session 9 – Chair: Roberto Beraldi</b> <b>AI, Big data, and analytics for DM</b> Room: CLA Laboratory</p> <p><b><i>Privacy-oriented architecture for building automatic voice interaction systems in Smart Environments in disaster recovery scenario</i></b> Antonio Gentile (ICAR-CNR, Italy); Davide Macrì (ICAR CNR, Italy); Emilio Greco (ICAR-CNR, Italy); Agostino Forestiero (CNR-ICAR, Italy)</p> <p><b><i>The Role of Artificial Intelligence in Managing Emergencies and Crises within Smart Cities</i></b> Sami Shaffiee Haghshenas, Giuseppe Guido, Sina Shaffiee Haghshenas and Vittorio Astarita (University of Calabria, Italy)</p> <p><b><i>Community Detection in Dense Networks using effective resistance and link pruning</i></b> Annalisa Socievole and Clara Pizzuti (National Research Council of Italy, Italy)</p> <p><b><i>A Hybrid Deep Learning Model-Based Intrusion Detection System for Emergency Planning Using IoT-Network</i></b> Inam Ullah Khan (Isra University, Pakistan); Muhammad Yaseen Ayub (COMSATS University Islamabad, Attock Campus, Pakistan); Asrin Abdollahi (University of Kurdistan, Iran); Arijit Dutta (University of Calabria, Italy)</p> <p><b><i>A simulation tool for crisis management and pre-disaster planning</i></b> Federico Eugeni (Università Degli Studi dell'Aquila, Italy); Sara Sacco and Donato Di Ludovico (Università Degli Studi Dell'Aquila, Italy); Antiniscia Di Marco (University of L'Aquila, Italy)</p>