



The 16th International Symposium on Pervasive Systems, Algorithms and Networks I-SPAN, Naples, Italy

Conference Program

16-Sep. 2019 (Monday)	
8:20-9:00	Registration
8:50-9:10	Opening plenary (Aula Magna)
9:10-10:00	<p>Keynote : Reinhard Klette, Centre for Robotics & Vision at Auckland University of Technology, New Zealand</p> <p>Towards Self-driving Cars: Test Fields, Visual Odometry, and Road-surface Analysis</p> <p>(Aula Magna)</p>
10:00-10:20	Coffee Break
10:20-12:00	<p>Session 1: Big Data Analytics & Machine Learning I (Aula Magna) Chair: Giancarlo Sperli</p> <ul style="list-style-type: none"> • Lisa Natswi Tafa, Su Xin, Jiman Hong, Chang Choi, Automatic Maritime Traffic Synthetic Route: A Framework for Route Prediction • Antonio Coronato, Muddasar Naeem, A Reinforcement Learning based Intelligent System for the Healthcare Treatment Assistance of Patients with Disabilities • Syeda Fouzia, Mark Bell, Reinhard Klette, Saliency Guided Data Association Measure for Multiple Objects Tracking • Antonio M. Rinaldi, A Document Visualization Strategy based on Semantic Multimedia Big Data
12:00-13:20	Lunch
13:20-15:00	<p>Session 2: Big Data Analytics & Machine Learning II (Aula Magna) Chair: Vincenzo Moscato</p> <ul style="list-style-type: none"> • Xiaoran Wang, James Ho-Shek, Dominik Ondusko, D. Frank Hsu, Improving Portfolio Performance Using Attribute Selection and Combination <p>1ST INTERNATIONAL WORKSHOP ON HIGH PERFORMANCE COMPUTING AND APPLICATIONS (IW-HPCA 2019) – Aula B</p> <ul style="list-style-type: none"> • Mei-Chen Li, Lokesh Sharma, Shih-Lin Wu, Enhance object

	<ul style="list-style-type: none"> • Lucian Perju, Marius-Dorian Nicolaescu, Florin Pop, Ciprian Dobre and Sanda Maiduc, Advanced methods to extract value from scientific datasets • Antonio Galli, Michela Gravina, Vincenzo Moscato, Antonio Picariello, Carlo Sansone, Giancarlo Sperli, A business reputation methodology using Social Network Analysis • Marek Ogiela, Lidia Ogiela, Nature-Inspired Protocols for Cloud Computing and Security Systems 	<p>detection capability with the Object Relation</p> <ul style="list-style-type: none"> • Yin Te Tsai, Hsing Cheng Wu, Shao Ming Zhu, A Simple Algorithm for Oncidium Orchid Cut Flower Grading with Deep Learning • Che-Lun Hung, Chine-fu Hsin, Hsiao-Hsi Wang, Chuan Yi Tang, Optimization of GPU Memory Usage for Training Deep Neural Networks • Ming-Yan Guo, Hui-Jun Cheng, Chun-Yuan Lin, Yen-Jen Lin, Ann-Shyn Chiang, Computing Image Intersection and Union Regions for Drosophila Neurons based on Multi-core CPUs • Halim Fathoni, Chao-Tung Yang, Chih-Hung Chang, Chin-Yin Huang, Performance Comparison of Lightweight Kubernetes in Edge Devices
15:00-15:20	Coffee Break	
15:20-17:00	<p>Session 3: Cyber Security I (Aula Magna) Chair: Chang Choi</p> <ul style="list-style-type: none"> • Yiming Liu, Xin Su, Ning Xu, Xiao Yao, Sensitive Data Encoding in Blockchain-based P2P Trading System • Paolo D'Arco, Marco Nilo, A new instance of a lightweight authentication protocol based on the LPN problem • Kyungroul Lee, Sun-Young Lee, Kangbin Yim, Effective Ransomware Detection Using Entropy Estimation of Files for Cloud Services 	

17-Sep. 2019 (Tuesday)	
8:20-9:00	Registration
9:00-9:50	<p>Keynote : Jiannong Cao, The Hong Kong Polytechnic University, China Collaborative Task Execution in Advanced Edge Computing Environments (Aula Magna)</p>
9:50-10:20	Coffee Break
10:20-12:00	<p>Session 4: Cyber Security II (Aula Magna) Chair: Christian Esposito</p> <ul style="list-style-type: none"> • Zahra Ebadi Ansaroudi, Saeid Pashazadeh, Modeling and Formal Verification of the Ticket-based Handoff Authentication Protocol for Wireless Mesh Networks • Daniele Casola, Giuseppe Cattaneo, Luigi Catuogno, Umberto Ferraro Petrillo, Clemente Galdi, Gianluca Roscigno, TRUST: TRust Unguarded Service Terminals • Jinxiu Zhu, Wenxia Wu, Jiman Hong, Xiao Yao, Ning Xu, SE-DHGAN: Generative Adversarial Network with Residual SE-blocks for Single Image Dehazing

12:00-13:20	Lunch
13:20-15:00	<p>Session 5: Cloud Fog & Edge Computing (Aula Magna) Chair: Francesco Palmieri</p> <ul style="list-style-type: none"> • Tarek Menouer, Patrice Darmon, Containers Scheduling Consolidation Approach for Cloud Computing • Daniela D'Auria, Mouzhi Ge, Fabio Persia, Exploiting Recommender Systems in Collaborative Healthcare • Tarek Menouer, Otman Manad, Christophe Cérin, Patrice Darmon, Power efficiency Containers Scheduling Approach Based on Machine Learning Technique for Cloud Computing Environment • Leila Shooshtarin, Amir Taherkordi, A Clustering-Based Approach for Efficient Resource Allocation in Fog Computing
15:00-15:20	Coffee Break
15:20-17:00	<p>Session 6: Communication Solutions (Aula Magna) Chair: Marcello Cinque</p> <ul style="list-style-type: none"> • Dongyao Wang, Sung Hwan Kim, Xiaoqiang Zhu, Enhanced probability-based grant-free uplink data transmission in 5G mMTC • Chung-Ming Huang, Rung-Shiang Cheng, Yin-Ming Li, The Registration-based Collision Avoidance Mechanism for IEEE 802.11ah • Fahime Khoramnejad, Alireza Ansari pour, Mehdi Rasti, Joint Power and Admission Control in OFDMA-based Networks with Cognitive Radio Technology • Flavio Frattini, Marcello Cinque, Christian Esposito, Accurate and Lightweight Range-free Localization for Wireless Sensor Networks
19:00	Banquet (Circolo Nautico Napoli)

18-Sep. 2019 (Wednesday)	
9:00-10:20	<p>1ST INTERNATIONAL WORKSHOP ON VEHICULAR TECHNOLOGY (IWVT 2019) – Aula B</p> <ul style="list-style-type: none"> • Xunyi Li, Jinju Shao, Guo Wei, Ruhong Hou, AEB Control Strategy and Collision Analysis Considering the Human-Vehicle-Road Environment • Shihyang Lin, Jieqin Wan, Context-Awareness Enhances 5G MEC Resource Allocation • Gang Shen, Jinju Shao, Derong Tan, Yaming Niu, Song Gao, Optimal Hybrid Path Planning Considering Dynamic and Static Characteristics of Intelligent Vehicles • Xiaotian Ma, Xiaoqing Sang, Yehui Sun, Xiaotong Gong, Shanshang Gao, Yi Xu, Derong Tan, Single-binocular Vision Conversion Strategy for Obstacle Detection at Non-signalized Intersections • Yaming Niu, Di Tan, Jinju Shao, Gang Shen, Xunyi Li, Guo Wei, The Research on Intelligent Vehicle Trajectory Tracking based on Model Predictive Control
10:20-10:40	Coffee Break
10:40-12:00	<p>1ST INTERNATIONAL WORKSHOP ON CONSUMER CYBER SECURITY (IW-CONSEC 2019) – Aula B</p> <ul style="list-style-type: none"> • Andrea Bruno, Giuseppe Cattaneo, Experimental analysis of the Pixel Non Uniformity (PNU) in SEM for Digital Forensics Purposes • Sime Lugovic, Leo Mrcic, Ljiljana Zekanovic Korona, Public WiFi Security Network Protocol Practices in Tourist Destination