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Università degli Studi di Napoli Federico II

2019 IEEE INTERNATIONAL WORKSHOP ON

Metrology for Industry 4.0 and IoT

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MetroInd4.0&IoT NAPLES / 2019

CALL FOR PAPERS for the Special Session on

SYNCHRONIZATION FOR INTERNET OF THINGS

ABSTRACT

In the framework of Internet of Things (IoT) paradigm, the synchronization facility is challenging due to: heterogeneity and mobility of the Smart Objects,different kind of connections, energy saving, andreduced computational capability.The synchronization is mandatory for the time correlation of events, motion detection, velocity estimation, detection of cyber attack, data consistency, concurrency control, object localization and many others.

The special session “Synchronization for Internet of Things” is trying to examine common ideas and directions among different contemporary theoreticaland technical approaches.The special session will collect scientific expertise and the technologies nowadays available. The goal is to give a set of triggering contributions useful to propose new and common approach for an IoT synchronization standard.

ABOUT THE ORGANIZERS

Francesco Lamonaca (M’11–SM’16) received the M.S. degree in Computer Science Engineering and the Ph.D. degree in Computer and System Science from the University of Calabria, Italy, in 2005 and 2010, respectively, and the doctorate equivalent degree in Science and Engineering Science from the Université Libre de Bruxelles, Brussels, Belgium, in 2010 and 2011, respectively. He is currently an Associate Professor of Electronic Measurements with the University of Sannio, Italy. He has authored and co-authored more than 150 papers published in international journals and conference proceedings. His current researches interests include measurement networking and synchronization in wired and wireless network, signal and image processing for health parameters monitoring.

Prof. Lamonaca is a member of the Institute of Electrical and Electronic Engineers(IEEE), the IEEE Society on Instrumentation and Measurement (IM),IEEE IM Technical Committee (TC) 25 “Medical and Biological Measurements”, the IEEE IM TC 10 “Waveform Generation, Measurement and Analysis Committee”, and the IEEE IM TC 37 "Measurements and Networking”. He organized the special session “synchronization service for measurement and monitoring” at IMEKO TC4, 2014.

Domenico Luca Carnì (M’11) achieved the Master's Degree in Computer Engineering from the University of Calabria in 2003. He received in 2006 the Ph.D. in Systems and Computer Engineering from the same University. He is currently an Assistant Professor of Electronic Measurements with the University of Calabria, Italy.

Dr. Carnì is co-Author of over 77 papers published in international journals and conference proceedings. His current researches include: signal and image processing, wireless sensor networks and synchronization techniques.

Dr. Domenico Luca Carnì is a member of the Institute of Electrical and Electronic Engineers(IEEE), the IEEE Society on Instrumentation and Measurement (IM),IEEE TC-37 - Measurements and Networking.

Gianni Cerro (M’17) got his Master Degree in Computer Science Engineering and Ph.D. in Electrical and Information Engineering from University of Cassino and Southern Lazio, Italy, in 2013 and 2017, respectively. He is currently a research assistant of Electrical and Electronic Measurements with the Department of Electrical and Information Engineering of University of Cassino and Southern Lazio. He has co-authored several papers published in international journals and conference proceedings. His main research interests cover Time Synchronization in Wireless Sensor Networks and IoT, Cognitive Radio communications, Network Emulation tool validation, Software Defined Radios, Localization and Positioning algorithms. Dr. Cerro is a member of the Institute of Electrical and Electronic Engineers (IEEE), the IEEE Society on Instrumentation and Measurement (I&M), the IEEE IM Technical Committee TC 37 "Measurements and Networking” and he currently serves as reviewer for several international journals in the framework of Electrical and Electronic Measurement. He also been part of the Technical Program Committee of 2017 IEEE Workshop on Measurement & Networking.

MORE INFORMATION

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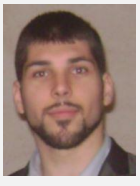

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