Call for Papers

Concurrency and Computation: Practice and Experience (CCPE)
Editor-in-Chief: Geoffrey C. Fox and David W. Walker
Wiley

Special Issue on “Cultural Heritage on Internet of Things (IoT) systems: Trends and Challenges”

Scope and Objectives

The Internet of Things envisages a plethora of heterogeneous objects interacting with the physical environments. It can be foreseen that IoT applications will raise the scale of data to an unprecedented level. Collecting, analysing and correlating data from different resources is a key role to drive smart interactions between actors of IoT environments.
Particularly, Cultural Heritage by IoT systems is an emerging research area and there is generally a deficiency to understand the suitable approaches to support this field. The success of an IoT systems depends on the efficient integration of its devices, sensors and data management techniques.
Especially, this issue is open to all on the theme "Cultural Heritage on IoT systems" and topics from the International Workshop on Data Mining on IoT Systems (DaMIS16) held at London, United Kingdom (19-22 September 2016).

Topics

The purpose of the proposed Special Issue is to publish recent advances in IoT systems, methodologies, technologies and services to enhance the Cultural Heritage domain, with emphasis on the following aspects, but certainly not limited to:

- IoT platforms for Big Data and Data analytics on pervasive and ubiquitous environments;
- IoT framework for the Cultural Heritage domain;
- Data computing on hybrid infrastructures (clusters, clouds, grids, etc.);
- Data Classification on IoT environments;
- Data Representation on IoT environments;
- Heterogeneous Source Mining;
- Social Data Mining techniques;
  Social media data analysis and computing;
- Data streams mining techniques:
- Algorithms for data mining on IoT environments;
- Algorithms for Big Data analytics and data mining on IoT environments;
- Performance analysis of Big Data tools and applications in IoT environments;
- Challenges in big data storage and processing;
- Mining and recommendation techniques for IoT environments;
- Data mining analytics applied to Smart Cities;
- Data mining techniques applied to Cultural Heritage domain;
- IoT architecture, tools and applications for Data analysis;

Important Dates

Submission due: Oct. 1 2016
First round notification: 1 Dec. 2016
Date that revised papers are due: 1 Jan. 2017
Date of final decision notification: 15 Jan. 2017
Date for submission of final paper: 30 Jan 2017.

Estimated publication date. 2017

Guest Editors

Angelo Chianese (University of Naples Federico II, Italy)
Prof. Angelo Chianese is a Full Professor in University of Naples Federico II, Italy, since 2004. He received the degree in Electrical Engineering in 1980. He is the president of the High Technology district for Cultural Heritage in Campania Region, Italy (http://www.databenc.it). He teaches the Foundations of Computer and Database Systems in the Faculty of Engineering of the University of Naples. He was responsible for the CSIF (IT Services Center of the Faculty of Engineering), and for the field of Remote Learning Center and Science (CDS) of the same University. He was a member of the ministerial committee for eLearning coordinate by the Mussi Minister. He was part of the organizing committees and scientific conferences at international and national levels on issues of Educational Technology, the Image Processing, Multimedia Systems and Applications of Artificial Intelligence in Engineering. The results of his research can be read on a number of publications in international journals and in national and international conference proceedings. He is also author of several books.

Jason J. Jung (Chung-Ang University, Korea)
Dr. Jason J. Jung is an Associate Professor in Chung-Ang University, Korea, since September 2014. Before joining CAU, he was an Assistant Professor in Yeungnam University, Korea since 2007. Also, He was a postdoctoral researcher in INRIA Rhone-Alpes, France in 2006, and a visiting scientist in Fraunhofer Institute (FIRST) in Berlin, Germany in 2004. He received the B.Eng. in Computer Science and Mechanical Engineering from Inha University in 1999. He received M.S. and Ph.D. degrees in Computer and Information Engineering from Inha University in 2002 and 2005, respectively. Dr. Jung serves as Editorial board member of many international journals, e.g., Journal of Universal Computer Science, International Journal of Intelligent Information and Database Systems, International Journal of Social Network Mining and International Journal of Web Engineering and Technology. He has edited 10 special issues in international journals, 2 conference proceedings. He is the author of about 100 international publications. His research topics are knowledge engineering on social networks by using many types of AI methodologies, e.g., data mining, machine learning, and logical reasoning. Recently, he have been working on intelligent schemes to understand various social dynamics in large scale social media (e.g., Twitter and Flickr).
http://dblp.uni-trier.de/pers/hd/j/Jung:Jason_J=

Francesco Piccialli (University of Naples Federico II, Italy)

Dr. Francesco Piccialli is a researcher in University of Naples, Federico II, Italy. He received the M.S. and PhD. degrees in Computational and Computer Science in 2012 and 2015 respectively. Dr. Francesco Piccialli serves as committee member, track chair, invited session chair of many international conferences and workshop (EUSPN 2016, CADSA 2015, KES-IIMSS 2016, VICTA 2014/2015, etc.). He is also the organizer of two international workshop named V.I.C.T.A. and Da.M.I.S. His research topics are focused on Internet of Things paradigm, design of Smart Environments, Cultural Heritage applications within IoT. Recently, he have been working on smart framework to support an innovative fruition schema for Cultural spaces, applying it in many real cultural context in Naples city, Italy.