Visual Computing with Multimodal Data Streams

A Special Track of the

9th International Symposium on Visual Computing (ISVC'13)

http://www.isvc.net

July 29-31, 2013, Crete, Greece

Scope:

With advances in computing and sensing technologies, the dominant methodology of science has been changing over recent years. Hey et al. predicted that the first three paradigms in science – empirical, theoretical and computational simulation – have successfully carried us to where we are and will continue to make incremental progress, but meanwhile dramatic breakthroughs will be achieved by the next fourth paradigm of science – data-intensive science – which will contribute to a profound transformation of scientific research. Volumes of multimodal data captured by new instruments from a variety of institutions will be publically accessible for the purposes of continued and deeper data analysis.

The proposed special track aims to bring together domain experts, data researchers, visualization experts, and analytics practitioners. Through presentations, discussions, and demonstrations of existing community-specific tools, the goals of the special track include enumerating existing data formats and associated visual computing algorithms. Furthermore, we look to growing the sense of community such that our combined efforts will lead to information of common needs and potentially a sustained endeavor that enables the field of visual computing with multimodal data to become established in a growing number of science venues.

Topics:

The topics of interest include but are not limited to the following areas:

- Applications
  - Domain--- specific tools designed for domains
  - General--- purpose tools and infrastructure for a broad research community
- Visualization and Analysis Tools
  - Sequential pattern mining
  - Information integration
  - Multimodal Fusion

    - Integrated tools
- Infrastructure building
    - Building Data Analytics Cloud Services
    - Parallel Computing for Large Scale Data Analysis
    - Managing, Coding, Sharing Data Streams
- Community-Building
    - Multimodal Behavioral Analytics
    - Multimodal Learning Analytics
    - Multimodal Experience Evaluation, Recreation

Paper Submission Procedure:

Papers submitted to ISVC 2013 Special Track must not have been previously published and must not be currently under consideration for publication elsewhere. Manuscripts should be submitted in camera-ready format and should not exceed **12 pages**, including figures and tables (see http://www.isvc.net for details). All papers accepted will appear in the symposium proceedings which will be published by **Springer-Verlag** in the **Lecture Notes in Computer Science (LNCS)** series.

Important Dates:

Paper submissions	May 10, 2013
Notification of acceptance	June 10, 2013
Final camera ready paper	June 28, 2013
Advance Registration	June 28, 2013
ISVC'13 Symposium	July 29-31, 2013

Organizers:

Hui Zhang, Indiana University, huizhang@iu.edu
Yingzi Du, Indiana University-Purdue University Indianapolis, Indianapolis, yidu@iupui.edu
Mike Boyles, Indiana University, mjboyles@iu.edu
Eric Wernert, Indiana University, ewernert@iu.edu
Thakur Sidharth, Renaissance Computing Institute sthakur@renci.org
Ruan Guangchen, Indiana University gruan@indiana.edu