VLC2014 Call For Papers
2014 International Workshop on Visual Languages and Computing
http://www.ksi.edu/seke/vlc14cfp.html
in conjunction with the
The Twentieth International Conference on Distributed Multimedia Systems
www.ksi.edu/seke/dms14.html
Wyndham Pittsburgh University Center, Pittsburgh, USA
August 27 - August 29, 2014
Organized by
Knowledge Systems Institute, USA

Visual languages mediate human and computer interaction. Advances in commodity hardware and software, including touch-sensitive surfaces and vision processing systems, are enabling fundamental enhancements to this mediation through sketch and gesture recognition. More formal visual languages allow experts to accurately specify complex systems, such as software architecture or chemical molecules. A visual language can also encompass complex human-computer interaction such as navigating a set of semantically linked videos. Combining aspects of art, engineering, and science, visual computing involves the design and engineering of visual interactions and the analysis of these interactions in terms of semantics, efficiency, aesthetics, pleasure, emotion, engagement, immersion, collaboration, and culture.

For this year's special theme we request high-quality submissions on *visual languages and visual computing techniques that enhance digital modeling and fabrication and leverage 3D printing innovations*. In addition to the special theme, we continue to solicit papers on all aspects and approaches to visual languages and computing, including interactive visual computing, computer-empowered visual computing, human-empowered visual computing, transformation algorithms for visual computing, and visual languages for visual computing.

VLC2014 Proceedings will be published as Special Issue of JVLC
The Journal of Visual Languages and Computing (JVLC), which is indexed by SCI, EI, DBLP, Scopus and other indexers, will publish the entire proceedings of DMS/VLC/DET2014 as the December 2014 special issue of JVLC. The conference will first publish a preliminary proceedings available online only to authors and conference attendees. Papers will go through three rounds of reviews so that they can be further improved to meet the standard of JVLC. The formal proceedings/JVLC special issue will be available both in print and online.

TOPICS
- 3D Printing Innovations
- Additive Manufacturing
- Aesthetic Computing
- Ambient Information Interaction
- Automated Generation and Layout of Visualisations
- Biomedical Imagery
- Computer-Assisted Visual Art and Design
- Digital Modeling and Fabrication
- Fusion of Vision with Audio and Other Modalities
- Gestural Computing
- Human-Machine Interface Design
- Human Vision Systems and Models
- Parallel/Distributed/Neural Computing and Representations for Visual Information
- Pictorial Databases and Information Systems
- Rapid Prototyping and Manufacturing
- Scientific Visualization
- Sketch and Gesture based design
- Sketch and Gesture based interaction with data
- Sketch Recognition
- Software to Support the use of Visual Languages
- Visual and Spatial/Temporal Reasoning
- Visual Computing for Expert Communities
- Visual Computing in Bioinformatics and Systems Biology
- Visual Computing on Sensed Data
- Visual Languages
- Visual Programming
- Visualization of Computational Processes

Special Sessions
Visual languages for citizen empowerment and territorial intelligence
(Organizers: Giuliana Vitiello, Monica Sebillo and Robert Laurini)

Dynamic and Incremental Manufacturing (Organizer: Levent Burak Kara)

Hotel Information
The DMS2014 Conference will be held at the Wyndham Pittsburgh University Center, Pittsburgh, USA. A special daily rate of $129 US dollars will be available during the conference period.

Information for authors
Papers must be written in English. An electronic version (PDF format) of the full paper should be submitted using the following URL: https://www.easychair.org/conferences/?conf=dms2014z.

When submitting, select the track VLC14 or one of the two special sessions. Manuscript must include a 200-word abstract and no more than 8 pages of double column text (include figures and references). All submissions must not be published or under consideration for publication in a journal or in a conference with proceedings. Papers will be evaluated based on originality, significance, technical soundness and clarify of exposition. Depending upon the results of evaluation a paper may be accepted as regular paper (8 pages), short paper (5 pages) or poster (poster presentation only).

Information for reviewers
Papers submitted to VLC2014 will be reviewed online. The users (webmaster, program chair, reviewers...) can login using the following URL: https://www.easychair.org/conferences/?conf=dms2014z.

Contact Information
VLC2014 Conference Secretariat
Knowledge Systems Institute
156 Park Square, Pittsburgh, PA 15238, USA
E-mail: dms2014z@easychair.org

Important dates
Paper submission due: May 1, 2014
Notification of acceptance: June 1, 2014
Camera-ready copy: June 25, 2014
Early conference registration due: June 25, 2014
Second notification of paper revision: August 31, 2014
Revised paper for formal proceedings due: September 20, 2014
Third notification of paper revision: September 30, 2014
Final paper for formal proceedings due: October 20, 2014
Publication of formal proceedings: December 15, 2014

VLC'14 WORKSHOP CO-CHAIRS
A. J. Delaney, University of Brighton, UK; workshop co-chair
Jennifer Leopold, Missouri University of Science & Technology, USA; workshop co-chair

VLC'14 PROGRAM CHAIR
Franklyn A Turbak, Wellesley College, USA; Program chair