



## Visualization and Data Analysis 2023

### Conference Chairs

Thomas Wischgoll, Wright State University (US)

David Kao, NASA Ames Research Center (US)

Yi-Jen Chiang, New York University (US)

This document details the conference program, held as part of the 2023 IS&T International Symposium on Electronic Imaging, 15-19 January 2023. Manuscripts of conference papers are reproduced from PDFs as submitted and approved by authors; no editorial changes were made.

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Society for Imaging Science and Technology  
7003 Kilworth Lane • Springfield, VA 22151 USA  
703/642-9090; 703/642-9094 fax  
info@imaging.org; www.imaging.org

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**Andrew B. Watson**, chief vision scientist, Apple Inc. (United States)

*Andrew Watson is Chief Vision Scientist at Apple, where he leads the application of vision science to technologies, applications, and displays. His research focuses on computational models of early vision. He is the author of more than 100 scientific papers and 8 patents. He has 21,180 citations and an h-index of 63. Watson founded the Journal of Vision, and served as editor-in-chief 2001-2013 and 2018-2022. Watson has received numerous awards including the Presidential Rank Award from the President of the United States.*

**KEYNOTE: Visual Analytics (W3)**

Session Chair: Thomas Wischgoll, Wright State University (United States)

3:30 – 5:30 PM

Davidson

3:30

VDA-400

**KEYNOTE: Deep learning for scientific data analysis and visualization**, *Chaoli Wang, University of Notre Dame (United States)*

*Chaoli Wang is a Professor in Computer Science and Engineering at the University of Notre Dame. His primary research interests include scientific visualization (e.g., flow visualization, time-varying multivariate data visualization, deep learning for scientific visualization), visual analytics (e.g., learning analytics, visual analytics for scientific visualization, visual analytics applications), information visualization (e.g., graph visualization), and visualization in education. Wang received his PhD (2006) in Computer and Information Science from The Ohio State University.*

4:10

VDA-401

**Comparative visualization for noise simulation data**, *Nikola Vugdelija<sup>1</sup>, Rainer Splechna<sup>2</sup>, Goran Todorovic<sup>3</sup>, Mirko Suznjevic<sup>1</sup>, and Kresimir Matkovic<sup>2</sup>; <sup>1</sup>University of Zagreb (Croatia), <sup>2</sup>VRVis Research Center (Austria), and <sup>3</sup>AVIL\_AST doo (Croatia)*

4:30

VDA-402

**VVAFER — Versatile visual analytics framework for exploration and research**, *Moritz Zeumer<sup>1</sup>, Jonas Gilg<sup>1</sup>, Pawandeep Kaur Betz<sup>1</sup>, and Andreas Gerndt<sup>1,2</sup>; <sup>1</sup>German Aerospace Center and <sup>2</sup>University of Bremen (Germany)*

4:50

VDA-403

**Visualizing and monitoring the process of injection molding**, *Christian A. Steinparz<sup>1</sup>, Thomas Mitterlehner<sup>2</sup>, Bernhard Praher<sup>2</sup>, Klaus Straka<sup>1,2</sup>, Holger Stitz<sup>1,3</sup>, and Marc Streit<sup>1,3</sup>; <sup>1</sup>Johannes Kepler University, <sup>2</sup>Moldsonics GmbH, and <sup>3</sup>datavisyn GmbH (Austria)*

5:10

VDA-404

**BioChipVis: An information visualization interface for explainable biochip data classification**, *Paul Craig<sup>1</sup>, Ruben Ng<sup>1</sup>, Yu Liu<sup>1</sup>, Boris Tefsen<sup>2</sup>, and Sam Linsen<sup>3</sup>; <sup>1</sup>Xi'an Jiaotong-Liverpool University (China), <sup>2</sup>Ronin Institute (United States), and <sup>3</sup>SquaredAnt (China)*



**Visualization and Data Analysis 2023 Interactive (Poster) Paper Session**

5:30 – 7:00 PM

Cyril Magnin Foyer

*The following works will be previewed in the first morning conference oral session and then presented at the EI 2023 Symposium Interactive (Poster) Paper Session.*

VDA-405

**Case study on including ethics into introductory data visualization**, Anna A. Baynes, California State University - Sacramento, Department of Computer Science (United States)