

Program for the 5th Symposium on Biological Data Visualization

Friday, July 10

8:30	8:45	BioVis Welcome, Kay Nieselt
8:45	9:45	Keynote Lecture: Visual data science - Advancing science through visual reasoning Speaker: Torsten Möller , <i>University of Vienna, Austria</i>
9:45	10:30	Primer: Four Levels of Visualization , Session Chair: Sean O'Donoghue Speaker: Min Chen , <i>Oxford e-Research Centre, University of Oxford, UK</i>
10:30	11:00	<i>Coffee/Tea Break</i>
11:00	12:40	BioVis Papers: Omics Data Visualization , Session Chair: Michel Westenberg
11:00	11:25	PathwayMatrix: Visualizing Binary Relationships between Proteins in Biological Pathways, <i>T. N. Dang, P. Murray, A. Forbes</i>
11:25	11:50	Extended LineSets: A Visualization Technique for the Interactive Inspection of Biological Pathways, <i>F. Paduano, T. N. Dang, P. Murray, A. Forbes</i>
11:50	12:15	Pan-Tetris: an interactive visualisation for Pan-genomes, <i>A. Hennig, J. Bernhardt, K. Nieselt</i>
12:15	12:40	BactoGeNIE: A Large-Scale Comparative Genome Visualization for Big Displays, <i>J. Aurisano, K. Reda, J. Leigh, G.E. Marai, A. Johnson</i>
12:45	14:15	<i>Lunch Break with Lunch Box and Beverages</i>
14:15	15:00	Primer: How to Visualize Data , Session Chair: Sean O'Donoghue Speaker: Robert Kosara , <i>Tableau Software</i>
15:00	15:30	Short Poster Talks Session, Session Chairs: Alex Lex and Michael Westenberg
15:30	16:00	<i>Coffee/Tea Break</i>
16:00	17:15	BioVis Papers: Visualizing Imaging Data , Session Chair: Jos Roerdink
16:00	16:25	Physically-based In Silico Light Sheet Microscopy for Visualizing Fluorescent Brain Models, <i>M. Abdellah, A. Bilgili, S. Eilemann, H. Markram, F. Schürmann</i>
16:25	16:50	Visual parameter optimisation for biomedical image processing, <i>A.J. Pretorius, Y. Zhou, R.A. Ruddle</i>
16:50	17:15	GRAPHIE: Graph based Histology Image Explorer, <i>H. Ding, C. Wang, K. Huang, R. Machiraju</i>
17:15	17:30	Poster Fast Forward, Chairs: Alexander Lex, Michel Westenberg
17:30	19:30	Poster Presentation and Reception with Drinks and Finger Food

Saturday, July 11

9:30	10:45	BioVis Papers: Proteins and Structures , Session Chair: Jan Aerts
9:30	9:55	MoFlow: Visualizing Conformational Changes as Molecular Flow Improves Understanding, <i>W. Rumpf, S. Dabdoub, A. Shindhelm, W. Ray</i>
9:55	10:20	ReactionFlow: Visualizing Relationships between Proteins and Complexes in Biological Pathways, <i>T.N. Dang, P. Murray, A. Forbes, J. Aurisano</i>
10:20	10:45	Integrated visual analysis of protein structures, sequences, and feature data, <i>C. Stolte, K. S. Sabir, J. Heinrich, C. J. Hammang, A. Schafferhans, S. I. O'Donoghue</i>
10:45	11:15	<i>Coffee/Tea Break</i>
11:15	12:15	Challenges Session , Session Chair: Kay Nieselt, Sean O'Donoghue
11:15	11:45	New Advanced Solutions for Genomic Big Data Analysis and Visualization , Speaker: Nacho Medina , Computational Biology Lab, University of Cambridge, UK
11:45	12:15	Visualizing 3D Genomes , Speaker: Marc Marti-Renom , Genome Biology Group, Barcelona, Spain
12:15	14:00	<i>Lunch Break with Lunch Box and Beverages</i>
14:00	15:40	BioVis Papers: Omics Data Visualization , Session Chair: Nils Gehlenborg
14:00	14:25	miRTarVis: An Interactive Visual Analysis Tool for microRNA-mRNA Expression Profile Data, <i>D. Jung, B. Kim, R. Freishtat, M. Giri, E. Hoffman, J. Seo</i>
14:25	14:50	VisRseq: R-based visual framework for analysis of sequencing data, <i>H. Younesy, T. Möller, M. C. Lorincz, M. M. Karimi, S. J. M. Jones</i>
14:50	15:15	Epiviz: a view inside the design of an integrated visual analysis software for genomics, <i>F. Chelaru, H. Corrada Bravo</i>
15:15	15:40	XCluSim: A visual analytics tool for interactively comparing multiple clustering results of bioinformatics data, <i>S. L'Yi, B. Ko, D. Shin, Y.-J. Cho, J. Lee, B. Kim, J. Seo</i>
15:40	16:00	<i>Coffee/Tea Break</i>
16:00	17:00	Design Contest Presentations, Session Chairs: Eamonn Maguire and Ryo Sakai
17:00	17:30	Awards Ceremony and Closing Remarks, Liz Marai
17:30	18:30	Bring your own problem