

2007 6th International Asia-Pacific Symposium on Visualization

**Sydney, Australia
February 5-7, 2007**



IEEE Catalog Number:
ISBN:

07EX1615
1-4244-0808-3

Contents

Preface	v
IEEE Computer Society Visualization and Graphics Technical Committee	vi
Conference Committee.....	vii
Program Committee	vii
Local Organising Committee.....	vii
Reviewers.....	viii
Keynote Address: Visual Analytics: A Grand Challenge in Science - Turning Information Overload into the Opportunity of the Decade.....	ix
Jim Thomas (Director, National Visualization and Analytics Center)	

Papers

Adaptive Sampling in Three Dimensions for Volume Rendering on GPUs.....	3
Martin Kraus, Magnus Strengert, Thomas Klein, Thomas Ertl	
Visualizing Social Interaction in Open Source Software Projects	11
Michael Ogawa, Kwan-Liu Ma, Christian Bird, Premkumar Devanbu, Alex Gourley	
Labeling Collinear Sites.....	19
Michael A. Bekos, Michael Kaufmann, Antonios Symvonis	
Level-of-Detail Visualization of Clustered Graph Layouts.....	27
Michael Balzer, Oliver Deussen	
Efficiently Drawing a Significant Spanning Tree of a Directed Graph.....	35
Martin Harrigan, Patrick Healy	
Overlapping Cluster Planarity.....	43
Walter Didimo, Francesco Giordano, Giuseppe Liotta	
Visualization of Sanitized Email Logs for Spam Analysis	51
Chris Muelder, Kwan-Liu Ma	
Multi-Scale Morphological Volume Segmentation and Visualization	59
Runzhen Huang, Eric Lum, Kwan-Liu Ma	
Many-to-One Boundary Labeling	67
Hao-Jen Kao, Chun-Cheng Lin, Hsu-Chun Yen	
A Comparison of Vertex Ordering Algorithms for Large Graph Visualization.....	75
Christopher Mueller, Benjamin Martin, Andrew Lumsdaine	
Force-Directed Drawing Method for Intersecting Clustered Graphs.....	83
Hiroki Omote, Kozo Sugiyama	
Placing Connected Components of Disconnected Graphs	91
Dennis Goehlsdorf, Michael Kaufmann, Martin Siebenhaller	
GraphScope: Integrated Multivariate Network Visualization	99
Kai Xu, Andrew Cunningham, Seok-Hee Hong, Bruce H. Thomas	
Visualisation and Analysis of the Internet Movie Database	107
Adel Ahmed, Vladimir Batagelj, Xiaoyan Fu, Seok-Hee Hong, Damian Merrick	

Visualization and Analysis of Email Networks.....	115
Xiaoyan Fu, Seok-Hee Hong, Nikola S. Nikolov, Xiaobin Shen, Yingxin Wu, Kai Xu	

Short Papers

Straight-Line Grid Drawings of Planar Graphs with Linear Area	125
Md. Rezaul Karim, Md. Saidur Rahman	
Integrated Visualization System for Monitoring Security in Large-Scale Local Area Network	129
Shinichi Mukosaka, Hideki Koike	
Analysis of a High-Dimensional Approach to Interactive Graph Drawing	133
Hiroshi Hosobe	
Interpreting Large Visual Similarity Matrices.....	137
Christopher Mueller, Benjamin Martin, Andrew Lumsdaine	
Particle-based Volume Rendering.....	141
Naohisa Sakamoto, Jorji Nonaka, Koji Koyamada, Satoshi Tanaka	
Directed Graphs and Rectangular Layouts.....	145
Adam L. Buchsbaum, Emden R. Gansner, Suresh Venkatasubramanian	
Using Eye Tracking to Investigate Graph Layout Effects	149
Weidong Huang	
Navigation Techniques for 2.5D Graph Layout	153
Adel Ahmed, Seok-Hee Hong	
Author Index.....	A1