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## Contents

<table>
<thead>
<tr>
<th>v</th>
<th>Conference Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>vii</td>
<td>Introduction</td>
</tr>
</tbody>
</table>

### SESSION 1 VISUALIZING MIND AND BODY: BIOINFORMATIC APPLICATIONS

| 7243 03 | Analytics for massive heat maps [7243-02]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Bohn, D. Payne, G. Nakamura, D. Love, Pacific Northwest National Lab. (United States)</td>
</tr>
</tbody>
</table>

| 7243 04 | Asymmetry analysis based on genetic algorithms for the prediction of foot ulcers [7243-03]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N. Kaabouch, Y. Chen, J. Anderson, F. Ames, Univ. of North Dakota (United States); R. Paulson, Altru Wound Clinic (United States)</td>
</tr>
</tbody>
</table>

| 7243 05 | Computer assisted analysis of microscopy images [7243-04]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Sawicki, P. Munhutu, J. DaPonte, C. Caragianis-Broadbridge, Southern Connecticut State Univ. (United States); A. Lehman, Trinity College (United States) and Southern Connecticut State Univ. (United States); T. Sadowski, E. Garcia, C. Heyden, L. Mirabelle, P. Benjamin, Southern Connecticut State Univ. (United States)</td>
</tr>
</tbody>
</table>

| 7243 06 | Visualizing conserved gene location across microbe genomes [7243-05]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C. D. Shaw, Simon Fraser Univ. (Canada)</td>
</tr>
</tbody>
</table>

### SESSION 2 VISUALIZING INTERNAL AND EXTERNAL SPACES: GEOGRAPHIC, SEMANTIC, SCIENTIFIC

| 7243 07 | Teaching children the structure of science [7243-06]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K. Börner, F. Palmer, J. M. Davis, E. Hardy, Indiana Univ. (United States); S. M. Uzzo, The New York Hall of Science (United States); B. J. Hook, Consultant, Indiana Univ. (United States)</td>
</tr>
</tbody>
</table>

| 7243 08 | An adaptive spread spectrum (SS) synchronous data hiding strategy for scalable 3D terrain visualization [7243-07]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>K. Hayat, LIRMM, Univ. of Montpellier II, CNRS (France); W. Puech, LIRMM, Univ. of Montpellier II, CNRS (France) and Univ. of Nimes (France); G. Gesquière, LSIS, Univ. of Marseille, CNRS (France)</td>
</tr>
</tbody>
</table>

| 7243 09 | TGD: visual data exploration of temporal graph data [7243-08]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Farrugia, A. Quigley, Univ. College Dublin (Ireland)</td>
</tr>
</tbody>
</table>

| 7243 0A | Musician Map: visualizing music collaborations over time [7243-09]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>J.-D. Yim, C. D. Shaw, L. Bartram, Simon Fraser Univ. (Canada)</td>
</tr>
</tbody>
</table>

| 7243 0B | Visual analytics of anomaly detection in large data streams [7243-10]  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. C. Hao, U. Dayal, Hewlett-Packard Labs. Palo Alto (United States); D. A. Keim, Univ. of Konstanz (Germany); R. K. Sharma, A. Mehta, Hewlett-Packard Labs. Palo Alto (United States)</td>
</tr>
</tbody>
</table>
Understanding outside collaborations of the Chinese Academy of Sciences using Jensen-Shannon divergence [7243-11]
R. Duhon, Indiana Univ. (United States)

SESSION 3 VISUALIZING TO EXPLICATE: ORGANIZATION, INFORMATION RESOURCES, SCIENTIFIC DISCOVERY I

A graphical environment for interactive four-dimensional data navigation [7243-14]
D. R. Wilding, R. P. Burton, Brigham Young Univ. (United States)

BrainFrame: a knowledge visualization system for the neurosciences [7243-15]
S. J. Barnes, Simon Fraser Univ. (Canada and Univ. of British Columbia (Canada); C. D. Shaw, Simon Fraser Univ. (Canada)

A main path domain map as digital library interface [7243-16]
J. Demaine, National Research Council (Canada)

A unified toolkit for information and scientific visualization [7243-17]
B. Wylie, Sandia National Labs. (United States); J. Baumes, Kitware, Inc. (United States)

SESSION 4 VISUALIZING TO EXPLICATE: ORGANIZATION, INFORMATION RESOURCES, SCIENTIFIC DISCOVERY II

Progressive refinement: more than a means to overcome limited bandwidth [7243-19]
R. Rosenbaum, H. Schumann, Univ. Rostock (Germany)

Visually comparing multiple partitions of data with applications to clustering [7243-20]
J. Zhou, S. Konecni, G. Grinstein, Univ. of Massachusetts, Lowell (United States)

Uncertainty visualization in the VisIt visualization environment [7243-21]
A. Foulks, R. D. Bergeron, Univ. of New Hampshire (United States)

Reservoir Model Information System: REMIS [7243-22]
S. Y. Lee, K.-W. Lee, T. Rhee, U. Neumann, Univ. of Southern California (United States)

Multiresolution data aggregation for analytical exploration of large relational data [7243-23]
M. Sanver, New York Institute of Technology, Abu Dhabi (United Arab Emirates); L. Yang, Western Michigan Univ. (United States)

Author Index
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Introduction

Welcome to the proceedings of the Visualization and Data Analysis 2009 conference, now on its 16th year. This onsite proceedings volume showcases the enormous diversity of research in topics such as

- Internet imaging, medical imaging, image processing
- Biomedical visualization and applications
- Internet, web, and security visualizations
- Analysis techniques and data mining
- Data exploration using classical and novel approaches
- Databases and visualization
- High-performance computing and parallel rendering
- Tools and applications exemplified by case studies
- Virtual environments and data visualization
- Information and scientific visualization
- Volume and flow visualization
- Interaction paradigms and human factors

This year’s conference features 16 full papers and five short papers. Papers are grouped into three main sessions, titled

Visualizing Mind and Body: Bioinformatics Applications
Visualizing Internal and External Spaces: Geographic, Semantic, Scientific
Visualizing to Explicate: Organization, Information Resources, Scientific Discovery

Dr. Marc A. Smith, Chief Social Scientist for the Telligent Corporation will give this year’s invited talk on “Visualizing Roles in Social Media”. The talk will review his work on the impact of social networks on collective knowledge and value creation.

We would like to thank the 58 external reviewers and program committee members. Their expert reviews and evaluation of the submitted papers are essential for ensuring high quality papers and presentations. Mark A. Price served as an assistant to the Conference chairs and his patience and diligence was instrumental for the review process and the scheduling of VDA 2009.

It is the diversity of attendees and their works that sets this conference and associated proceedings apart from other visualization conferences. Within this proceedings volume you will find papers across the board from computer graphics to image processing, information visualization and scientific visualization. Few conferences can offer such a diverse and insightful inspection and cross-fertilization of the ongoing research throughout the field of visualization. We hope you enjoy these papers and we hope to see you at future conferences.

Katy Börner
Jinah Park