

# ***Visualization and Data Analysis 2009***

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# Introduction

Welcome to the proceedings of the Visualization and Data Analysis 2009 conference, now on its 16<sup>th</sup> 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**

