

CCI RECONNECT '09 CONFERENCE SCHEDULE
 Reconnecting Teaching Faculty to the Mathematical Sciences Enterprise
 August 9 – August 15, 2009

Sunday, August 9, 2009

5:45 - 6:45 pm	Cocktail Hour to overlap Dinner
6:00 - 7:15	Dinner at the Holiday Inn Somerset Hotel
7:15 - 7:30	Introduction to Reconnect Fred Roberts, DIMACS
7:30 - 8:00	<p style="text-align: center;">Overview of Topic:</p> <p style="text-align: center;">Visual Analytics and its Applications Georges Grinstein, University of Massachusetts Lowell</p> <p style="text-align: center;">Overview of the visual analytics pipeline and its components. Simple data examples with scatterplots and maps. Introduction to the VAST Data Sets and contests, and the importance of metrics and evaluation.</p> <p style="text-align: center;">Reconnect Mantra: Listen, discuss, think, write and write and write.</p>
	Hotel's Hospitality Suite is available for writing or socializing

Monday, August 10, 2009

7:30 - 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 - 9:10	Welcome - Introduction of Staff and Participants
9:10 - 10:10	<p>Overview of Visualization and Data Analysis</p> <p>The goals of data exploration and its relationship with the discovery process. Hypothesis generation and testing. The VAST Datasets: problems and solutions.</p> <p>Georges Grinstein, University of Massachusetts Lowell</p>
10:10 - 10:40	Break / Study Time
10:40 - 11:40	<p>Dataset Selection and Preliminary Explorations</p> <p>VAST datasets to be used in the course. Preliminary discussions and explorations of these data sets using various simple tools.</p> <p>Georges Grinstein, University of Massachusetts Lowell Heather Byrne (VAST data access)</p>
11:40 - 12:10	<p>Applied Perception and Cognition</p> <p>A rapid overview of perception and cognition visualization issues</p> <p>Georges Grinstein, University of Massachusetts Lowell</p>
12:10 - 1:00	Lunch
1:00 - 3:00	<p>Visualization Techniques and Interactions 1</p> <p>Scatterplots, barcharts, maps, heatmaps. Introduction to a visualization system.</p> <p>Georges Grinstein, University of Massachusetts Lowell Curran Kelleher (GGobi) Shawn Konecni (UVP)</p>
3:00 - 5:00	<p>Knowledge Discovery</p> <p>An overview of statistics, knowledge discovery and data mining, details on clustering and classification and algorithms. Use Weka, Rapid Miner and R to analyze the VAST data sets.</p> <p>Georges Grinstein, University of Massachusetts Lowell Curran Kelleher (R), Shawn Konecni (Weka, Rapid Miner)</p>
5:00 - 6:00	Free Time / Travel (Staff Meeting 5:00 - 6:00)
6:00 - 7:00	Dinner at the Holiday Inn Somerset Hotel
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Tuesday, August 11, 2009

7:30 - 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 - 9:10	Morning Announcements
9:10 - 10:40	Visualization Techniques and Interactions 2 Parallel coordinates, commercial systems: Table Lens, Spotfire, InfoZoom John Stasko, Georgia Institute of Technology
10:40 - 11:00	Break
11:00 - 12:30	Selecting a Research Topic VAST Datasets: What worked and did not? Georges Grinstein, University of Massachusetts Lowell
12:30 - 1:30	Lunch
1:30 - 2:30	Visualization Techniques and Interactions 3 Graph, network, and hierarchy visualization including node-link, matrix, treemap, and radial techniques. John Stasko, Georgia Institute of Technology
2:30 - 3:00	Break
3:00 - 5:00	Visualization Techniques and Interactions 4 Text and document visualization including semantic maps, word clouds Jigsaw Overview John Stasko, Georgia Institute of Technology
5:00 - 6:00	Free time / Travel
6:00 - 6:45	Dinner at the Holiday Inn Somerset Hotel
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Wednesday, August 12, 2009

7:30 - 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 - 9:10	Morning Announcements
9:10 - 11:00	Jigsaw Discussion and Project Jigsaw hands on details and activities with selected data set. John Stasko, Georgia Institute of Technology Heather Byrne, Curran Kelleher, Shawn Konecni
11:00 - 11:15	Break
11:15 - 1:00	Jigsaw Discussion and Project (continued) Heather Byrne, Curran Kelleher, Shawn Konecni
1:00 - 2:00	Lunch
2:00 - 3:30	Visual Analytic Systems Review and compare visual analytic systems and their use using the VAST submissions. Use and analyze one or more of the VAST data sets. Georges Grinstein, University of Massachusetts Lowell Heather Byrne, Curran Kelleher, Shawn Konecni
3:30 - 3:45	Break
3:45 - 5:00	Continued Analysis and Research Topic Heather Byrne, Curran Kelleher, Shawn Konecni
5:00 - 6:00	Free time / Travel (Staff Meeting 4:30 - 5:30)
6:00 - 7:00	Dinner at Holiday Inn Somerset Hotel
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Thursday, August 13, 2009

7:30 - 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 - 9:10	Morning Announcements
9:10 - 11:30	<p align="center">Geospatial Information Systems</p> <p align="center">An overview of geographic and geospatial visualization systems. Their advantages and weaknesses. Their relationship to visual analytics. Use of a mini GIS to explore a spatial problem. Extensions to spatiotemporal data sets. The VAST Geospatial Problems</p> <p align="center">Georges Grinstein, University of Massachusetts Lowell Curran Kelleher, Shawn Konecni (WEAVE)</p>
11:30 – 11:40	Break
11:40 - 1:10	<p align="center">Continued Analysis and Research Topic</p> <p align="center">Detailed analysis of selected data set using any system or systems of your choice.</p> <p align="center">Heather Byrne, Curran Kelleher, Shawn Konecni</p>
1:10 - 2:00	Lunch
2:00 – 4:00	<p align="center">Research and Grand Challenge Problems</p> <p align="center">A review of the research problems in each of the VA component disciplines. The grand challenges.</p> <p align="center">Georges Grinstein, University of Massachusetts Lowell</p>
4:00 – 4:15	Break
4:15 – 5:15	<p align="center">Continued Analysis and Research Topic</p> <p align="center">Detailed analysis of selected data set using any system or systems of your choice.</p> <p align="center">Heather Byrne, Curran Kelleher, Shawn Konecni</p>
5:15 – 6:00	Free time / Travel
6:00 – 7:00	Dinner at Holiday Inn Somerset Hotel
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Friday, August 14, 2009

7:30 – 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 – 9:10	Morning Announcements
9:10 – 11:00	Continuation of Analysis with Tools With selected data set explore more complex questions using R and Weka, and with more complex data sets from VAST using Jigsaw. Georges Grinstein, University of Massachusetts Lowell Heather Byrne, Curran Kelleher, Shawn Konecni
11:00 - 11:15	Break
11:15 - 12:30	Continuation of Analysis with Tools (continued) Heather Byrne, Curran Kelleher, Shawn Konecni
12:30 - 1:15	Lunch
1:15 – 3:00	Post-Course Planning and Work Tasks, definitions, post-course activities discussion Georges Grinstein, University of Massachusetts Lowell Heather Byrne, Curran Kelleher, Shawn Konecni
3:00 – 3:15	Break
3:15 – 4:45	Post-Course Planning and Work (continued)
4:45 - 6:00	Free time / Travel
6:00 - 7:00	Dinner at the Holiday Inn Somerset Hotel
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Saturday, August 15, 2009

7:30 - 9:00 am	Breakfast at Holiday Inn Somerset Hotel and Travel to DIMACS
9:00 - 9:10	Morning Announcements
9:10 - 10:30	Post-Course Work and Tasks Final Group Reviews. Assignments of post-course work.
10:30 - 10:45	Break
10:45 - 12:00	MODULE DRAFTS DUE Group Presentations
12:00 - 12:30	Closing Discussion
	Lunch on your own