



# NATIONAL SCIENCE FOUNDATION COMPUTING RESEARCH INFRASTRUCTURE 2007 PI MEETING

## PROGRAM

### Sunday June 3, 2007

18:00-20:00 Reception and Registration Village

### Monday June 4, 2007

07:30-08:45	Breakfast	Warren
08:00-09:00	Registration	Photonics
09:00-09:30	Welcome and Opening Remarks	Photonics
09:30-10:30	Plenary Address by Ed Lazowska: Introducing CCC	Photonics
10:30-11:00	Morning Break	Photonics
11:00-12:30	Highlights from CRI Awards	Photonics
12:30-13:45	Lunch	Warren
14:00-15:30	Breakout Sessions A, B, and C	Photonics
15:30-16:00	Afternoon Break	Photonics
16:00-17:30	Development of CRI Research Resources and Testbeds	Photonics
18:00-19:00	Workshop Dinner	GSU
19:00-19:30	Remarks by NSF Officers	GSU
19:00-19:30	Overview of Sensorium Research at Boston University	GSU

### Tuesday June 5, 2007

07:30-08:45	Breakfast	Warren
09:00-10:30	Session 3: Institutional Infrastructures and Human Resources	Photonics
10:30-11:00	Morning Break	Photonics
11:00-12:30	CRI as a Catalyst for Advances in Inter/Multi-Disciplinary Research	Photonics
12:30-13:45	Lunch	Warren
14:00-15:30	Breakout Sessions D, E, and F	Photonics
15:30-16:00	Afternoon Break	Photonics
16:00-17:30	Panel Discussion: NSF Officers and Breakout Session Leaders	Photonics
17:30-17:45	Closing Remarks	Photonics

### Notes:

- Posters for various CRI projects will be on display throughout the program.
- The CS Department at Boston University will be hosting a Research Open House from 1pm to 4pm on Monday June 4th and Tuesday June 5th. All NSF-CRI'07 attendees are welcome!

## **Session 1: Short PI Presentations of Highlights from CRI Awards**

*Monday June 4th (11:00am-12:30pm) – Photonics 206*

*Chair: Irma Becerra-Fernandez, Florida International University*

- An Open Linguistic Infrastructure for American English  
*Christiane Fellbaum (Princeton U)*
- Videoweb - A Network of Video Cameras for Research and Teaching  
*Bir Bhanu (UC, Riverside)*
- Developing a Multimedia Laboratory for Studying Computer-Mediated Collaborative Behavior,  
*Susan Fussell (CMU)*
- Outcomes and Expectations for ATLAS Support and Development  
*R. Clint Whaley (UT, San Antonio)*
- Shaping the PRISM: Development of CCNY Wireless Sensor Network Testbed  
*Jizhong Xiao and Myung Lee (CUNY)*
- Building the Next-Generation Global Routing Monitoring System  
*Daniel Massey (Colorado State U) and Lan Wang (Memphis U)*
- CitySense: An Open, Urban-Scale Sensor Network Testbed  
*Matt Welsh (Harvard U) and Joshua Bers (BBN)*
- Novel hardware infrastructure for Data Stream Operations  
*Divyakant Agrawal (UCSB)*
- Robust Scene Analysis In A Network of Imaging and Non-imaging Sensors  
*Ertem Tuncel and Amit Roy-Chowdhury (UC, Riverside)*
- IREMA: An Interdisciplinary Research Environment for Movement Analysis  
*Gang Qian (Arizona State U)*
- Programming Models and Algorithms for Relaxed Synchronization on Many-Core Platforms  
*Suresh Jagannathan (Purdue U)*
- Computer Architecture's Virtuous Cycle of Innovation  
*Mark Hill (U of Wisconsin)*
- Taking the "Radio" out of Software Defined Radio  
*Kapil Dandekar (Drexel U)*
- Development of Cell Libraries to Support VLSI Research and Education  
*Dong Ha (Virginia Tech)*
- The Impact of NSF Funding on Sensor Network Research and Education at Wright State U  
*Bin Wang (Wright State U)*

## **Session 2: Development of CRI Research Resources and Testbeds**

*Monday June 4th (4:00pm-5:30pm) – Photonics 206*

*Chair: Stan Sclaroff, Boston University*

- Scalable Benchmarks, Software and Data for Data Mining  
*Alok Choudhary (Northwestern U)*
- Computer Expression Recognition Toolbox  
*Marian Bartlett (UC, San Diego)*
- Rejuvenating a programming system  
*David MacQueen (U of Chicago)*
- Infrastructure for Multi-Agent Decision-Making Research  
*Barbara Grosz and Stuart Shieber (Harvard U)*
- Experimental Evaluation of Multi-Modal Biometrics  
*Patrick Flynn and Kevin Bowyer (Notre Dame)*
- WAN-in-Lab: Real long fat pipes for protocol research  
*Steven Low and Andrew Lachlan (Caltech)*

## **Session 3: Development of Institutional Infrastructures and Human Resources**

*Tuesday June 5th (9:00am-10:30am) – Photonics 206*

*Chair: Ram Dantu, University of North Texas*

- UC Berkeley Wireless Research Infrastructure  
*Borivoje Nikolic (UC, Berkeley)*
- Characterization of Signal-based Automated Information Processing in Distributed Systems  
*Domingo Rodriguez (UPRM)*
- Visualization and Graphics Research With Graduate and Undergraduate Students  
*John Fernandez (TAMU)*
- Pathways in Computer Science  
*Enrico Pontelli and Inna Pivkina (New Mexico State U)*
- Forging Interdisciplinary Alliances to Diversify the Curriculum and Improve the Culture  
*Virginia Teller (CUNY)*
- Democratizing Access to Adaptive, On-demand Weather Forecasting  
*David Wise and Beth Plale (Indiana U)*

## **Session 4: CRI as a Catalyst for Advances in Inter/Multi-Disciplinary Research**

*Tuesday June 5th (11:00am-12:30pm) – Photonics 206*

*Chair: Sumeet Dua, Louisiana Tech University*

- The Metaverse: An Infrastructure for Advancing Computer Vision and Network Research  
*James Griffioen and Zongming Fei (U of Kentucky)*
- I<sup>3</sup>C As a Vehicle for Research and Development  
*Chita Das and Raj Acharya (Pensylvania State U)*
- Whereabouts: An infrastructure to support location-aware applications  
*Atul Prakash (U of Michigan)*
- Strategic Development of a Center-Wide Research Infrastructure and Agenda  
*Christopher North and Francis Quek (Virginia Tech)*
- CRI as a Catalyst for advances in Neuroscience and Assistive Technology Research  
*Malek Adjouadi (Florida International U)*
- Infrastructure for rapidly prototyping electronic textiles  
*Thomas Martin (Virginia Tech)*

### **Breakout Sessions**





*Monday June 4th (2:00pm-3:30pm) – Photonics Classrooms*

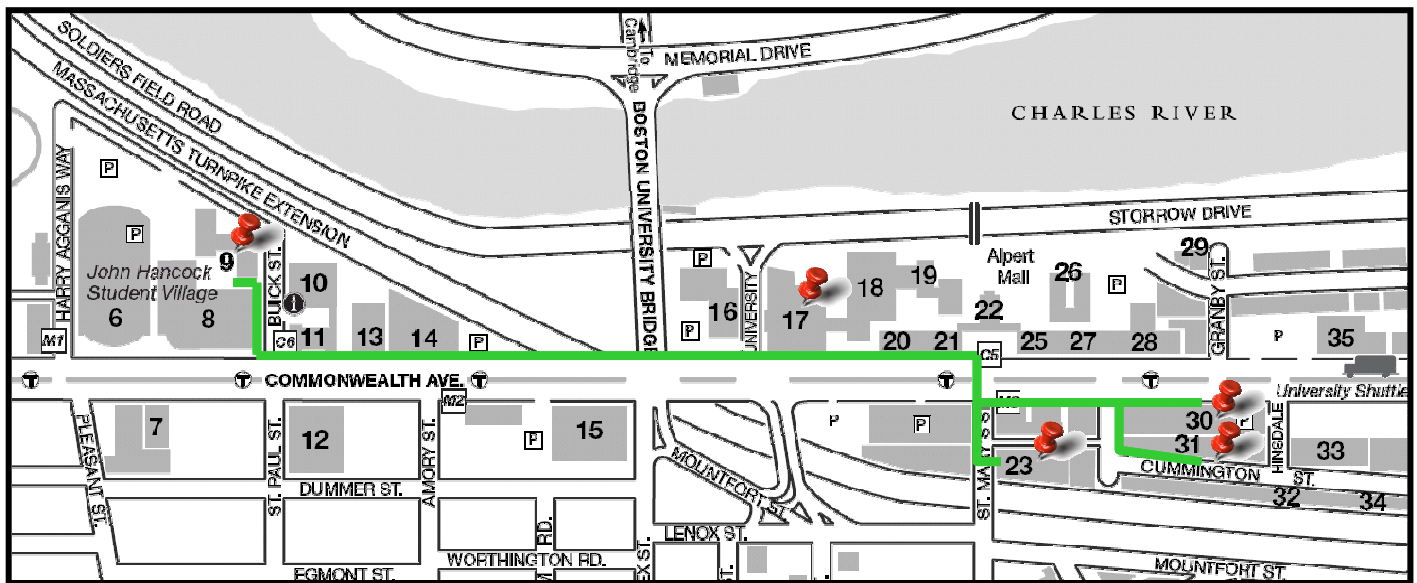
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| (A) The New Internet: Goals, Testing, and Infrastructural Needs<br><i>Lead: Henning Schulzrinne, Columbia University</i> | PHO - 210 |
| (B) Urban Mesh Networks: Does Your City Mayor Want One?<br><i>Lead: Ibrahim Matta, Boston University</i>                 | PHO - 203 |
| (C) Supporting Sponsored Research at Minority Institutions<br><i>Lead: Luc Longpre, University of Texas at El Paso</i>   | PHO - 201 |

*Tuesday June 5th (2:00pm-3:30pm) – Photonics Classrooms*

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| (D) Widening the Pipeline for Underserved Populations<br><i>Lead: Ron Leach, Howard University</i>                      | PHO - 211 |
| (E) Best Practices in Development of National Resources and Testbeds<br><i>Lead: K. Claffy, CAIDA</i>                   | PHO - 210 |
| (F) How should we/NSF value the various publication venues in Computing?<br><i>Lead: David Wise, Indiana University</i> | PHO - 203 |

## Useful Hints!

- Open 802.11 wireless access is available in the Photonics venues – NetID: NSFCRI07
- On-campus accommodations are at the Student Residences at the 10 Buick Street (#9)
- Reception will be on the top floor of the Student Residences at the 10 Buick Street (#9)
- All sessions will be in the main auditorium of the Photonics building (#23)
- Breakout sessions will be in various classrooms of the Photonics building (#23)
- Research Open House of CS@BU will be on the second floor of the MCS building (#31)
- Breakfasts and Lunches will be served in the dining room of the Warren Towers (#30)
- Workshop Dinner will be at the George Sherman Union (#17)
- Subway stops on the Green B-Line are identified with a  symbol – a ride on the  cost \$2
- The workshop venue is closest to the BU Central  stop on the Green B-Line
- The student residences are closest to the St Paul's  stop on the Green B-Line



**Close-up of BU Campus where various NSF-CRI'07 Functions will be held**  
(Diameter of above section of the map is 0.6 miles)

BU Student Residence (#9)  
10 Buick Street  
Boston, MA 02215  
(St Paul's Subway Stop)

BU Photonics Building (#23)  
8 St Mary's Street  
Boston, MA 02215  
(BU Central Subway Stop)

BU Warren Towers Dining Hall (#30)  
700 Commonwealth Avenue  
Boston, MA 02215  
(BU East Subway Stop)

For more information on visiting Boston and Boston University, check

<http://www.bu.edu/visit/about/city.html>