



Northeast Region

Presents the
15th Annual CCSCNE Conference

Held in Cooperation with:
**The Association for Computing Machinery
Special Interest Group on Computer Science Education
(ACM SIGCSE)**

Returning to
**The University of Hartford
West Hartford, Connecticut**

2010 Preliminary Program of Events

Friday, April 16, 2010

REGISTRATION.....10:00 a.m. – 5:00 p.m.
Dana Hall Lobby (Ground floor)

PROGRAMMING CONTEST.....7:45 a.m. – 12:45 p.m.

Breakfast and Registration of Teams and Team Members 7:45 a.m. – 8:45 a.m.
Dana Hall Lobby (Ground floor)

Computers Available for Teams to Practice 7:45 a.m. – 8:45 a.m.
Dana Hall Rooms 320 & 420

Initial Meeting and Presentation of the Problems 8:45 a.m. – 9:00 a.m.
Dana Hall 202/Mali Lecture Hall

Contest 9:00 a.m. – 12:00 p.m.
Dana Hall Rooms 320 & 420

Luncheon for the Teams 12:00 p.m. – 12:45 p.m.
Dana Hall outside Room 320

PRE-CONFERENCE WORKSHOPS.....9:00 a.m. – 12:00 p.m.

Workshop 1: [Mobile phone apps in CS0 using APP INVENTOR for ANDROID](#)

Dana Hall 318

Hal Abelson, MIT, MA

Mark Chang, Olin College of Engineering, MA

Eni Mustafaraj, Wellesley College, MA

Franklyn Turbak, Wellesley College, MA

Workshop 2: [Video scenarios: listening, discussing, exploring, solving --
A participatory approach for the computing classroom and beyond](#)

Dana Hall 324

Madalene Spezialetti, Trinity College, CT

Workshop 3: [Developing Competitive Grant Proposals for the National Science
Foundation](#)

United Technologies Hall, Room 320

Scott Grissom, NSF

VENDOR DISPLAYS.....10:00 a.m. – 6:00 p.m.
Dana Hall Lobby (Ground Floor)

WELCOME.....1:00 p.m. – 1:15 p.m.

Joseph Voelker, Dean, College of Arts and Sciences

Ingrid Russell and Hisham Alnajjar, Conference Chairs

Wilde Auditorium, Harry Jack Gray Center

PLENARY SESSION 1.....1:15 p.m. – 2:15 p.m.

Fran Allen, Is Computing at a Tipping Point? A Personal Perspective.

Wilde Auditorium, Harry Jack Gray Center

CONCURRENT SESSION 1.....2:30 p.m. – 4:10 p.m.

1A Papers: Assessment and more

Dana Hall Room 204

Session Chair: Susan Imberman, College of Staten Island, NY

How rubrics that measure outcomes can complete the assessment loop

Frances Bailie, Iona College, NY
Bill Marion, Valparaiso University, IN
Deborah Whitfield, Slippery Rock University, PA

Assessing collaborative and experiential learning

Mihaela Sabin, University of New Hampshire, NH

Lessons and tools from teaching a blind student

Richard Connelly, Providence College, RI

Designing value sensitive social networks for the future

Jami Cotler, Siena College, NY
Janelle Rizzo, Siena College, NY

1B Papers: CS0 and CS1

Dana Hall Room 232

Session Chair: Mike Gousie, Wheaton College, MA

Expanding CS1: applications across the liberal arts

Bridget Baird, Connecticut College, CT
Christine Chung, Connecticut College, CT

Integrating research in CS1

Deborah Sturm, College of Staten Island (CUNY), NY
Sarah Zelikovitz, College of Staten Island (CUNY), NY

An introductory computational course for science students

Sohie Lee, Wellesley College, MA
Ellen Hildreth, Wellesley College, MA

1C Panel:

Dana Hall 201/Mali I

Teaching computer scientists to play well with others

Charles Welty, University of Southern Maine, ME
Jesse M. Heines, University of Massachusetts Lowell, MA
Margaret Menzin, Simmons College, MA

1D Tutorial:

Dana Hall 202/Mali II

Test-first design pedagogy and support for introductory OO programming

Viera Proulx, Northeastern University, MA

1E Vendor Session:

Dana Hall Room 205

Take a Byte ... and Learn about Storage Technology Education and the EMC Academic Alliance (EAA) Program

Kim Yohannan, Academic Alliance Manager, EMC Corporation

COFFEE BREAK: FACULTY AND STUDENT POSTERS.....4:00 p.m. – 5:00 p.m.

Refreshments in Dana Lobby and also in Student Lounge on 3rd floor

Faculty posters in Dana 319, 321, 322

Student Posters in Dana Hall 3rd floor Hallway

CONCURRENT SESSION 2.....5:00 p.m. – 6:15 p.m.

2A Demos:

Dana Hall Room 204

Flipping coins: An activity for introducing computational thinking to non-computer science majors

David Toth, Merrimack College, MA

ENSEMBLE - the online community center for computing educators

Gregory W. Hislop, Drexel University, PA

Lillian N. Cassel, Villanova University, PA

Lois M. L. Delcambre, Portland State University, OR

Edward A. Fox, Virginia Tech, VA

Richard Furuta, Texas A&M University, TX

Peter Brusilovsky, University of Pittsburgh, PA

Daniel D. Garcia, University of California, Berkeley, CA

PSUzzle: Web-based introduction to programming practice

Delbert Hart, SUNY Plattsburgh, NY

2B Papers: Upper-level courses

Dana Hall Room 205

Session Chair: Mahmood Hossain, Fairmont State University, WV

ROBOTRAN: evolution of an undergraduate software project

Mark Meyer, Canisius College, NY

Kevin Mastropaolo, Canisius College, NY

Computer science meets industrial robotics:

a visual servoing project for a computer vision course

Sebastian van Delden, University of South Carolina Upstate, SC

Architecture of a Java framework for developing genetic algorithms in AI class

Thambrahalli Rao, The College at Brockport, SUNY, NY

Sandeep Mitra, The College at Brockport, SUNY, NY

2C Panel:

Dana Hall 201/Mali I

Expanding student enthusiasm for, and understanding of, introductory CS

Bridget Baird, (Moderator) Connecticut College, CT

Martin Allen, Mellon CTW Consortium
Christine Chung, Connecticut College, CT
Norman Danner, Wesleyan University, CT
Madalene Spezialetti, Trinity College, CT

2D Tutorial:

Dana Hall 202/Mali II

[Understanding NSF funding opportunities](#)

Scott Grissom, NSF

2E Vendor Session:

Dana Hall Room 205

[SAM 2007: Skills Assessment Manager for Office 2007 and Teaching Outside the Book with Emerge with Computers](#)

Matthew Genaway, Digital Solutions Manager, Cengage Learning

SOCIAL HOUR.....6:30 p.m. – 7:30 p.m.
Suisman Lounge, Gengras Student Union

DINNER BANQUET.....7:30 p.m. – 9:30 p.m.
Gengras Student Union South Cafeteria

Saturday, April 17, 2010

CONTINENTAL BREAKFAST.....7:30 a.m. – 8:30 a.m.
Dana Hall Lobby (Ground floor)

REGISTRATION.....8:00 a.m. – 10:00 a.m.
Dana Hall Lobby (Ground Floor)

VENDOR DISPLAYS.....8:00 a.m. – 12:00 p.m.
Dana Hall Lobby (Ground floor)

CONCURRENT SESSION 3.....8:30 a.m. – 9:45 a.m.

3A Papers: CS 1.5

Dana Hall Room 204

Session Chair: Vladimir Riabov, Rivier College, NH

Experiences building a college video game design course

Paul Dickson, Hampshire College, MA

Moving CS50 into the cloud

David Malan, Harvard University, MA

Learning computer science concepts using iPhone applications

David Goldschmidt, The College of Saint Rose, NY

Ian MacDonald, The College of Saint Rose, NY

Judith O'Rourke, The College of Saint Rose, NY

3B Papers: Software Engineering

Dana Hall Room 205

Session Chair: Sofya Poger, Felician College, NJ

Evolution of capstone courses in software engineering - a finishing school

Timoth Lederman, Siena College, NY

Supporting agile processes in software engineering courses

Delbert Hart, SUNY Plattsburgh, NY

Teaching an iterative approach with rotating groups in an undergraduate software engineering course

Jennifer Polack-Wahl, University of Mary Washington, VA

Karen Anewalt, University of Mary Washington, VA

3C Panel:

Dana Hall 201/Mali I

[Instructional aspects of student participation in humanitarian free and open source software \(HFOSS\)](#)

Heidi J. C. Ellis, Western New England College, MA

Ralph Morelli, Trinity College, CT

Gregory W. Hislop, Drexel University, PA

Norman Danner, Wesleyan University, CT

3D Tutorial:

Dana Hall 202/Mali II

[Threads Early](#)

John Beidler, University of Scranton, PA

Yaodong Bi, University of Scranton, PA

PLENARY SESSION 2.....10:00 a.m. – 11:00 a.m.

Alison Young, Computing and Sustainability: An ICT Project in the High Andes.

Dana Hall Mali I

BREAK.....11:00 a.m. – 11:30 a.m.

Dana Hall Lobby (Ground floor)

CONCURRENT SESSION 4.....11:30 a.m. – 12:45 p.m.

4A Papers: Compilers and architecture

Dana Hall Room 204

Session Chair: Adrian Ionescu, Wagner College, NY

BANTAM Java compiler project: experiences and extensions

Marc Corliss, Hobart and William Smith Colleges, NY

David Furcy, University of Wisconsin Oshkosh, WI

Joshua Davis, Hobart and William Smith Colleges, NY

Lori Pietraszek, Lockheed Martin

Semantic hooks using a mini-language for a compiler project

John Mallozzi, Iona College, NY

Leveraging hardware description languages and spiral learning in an introductory computer architecture course

John Robinson, Rowan University, NJ
Ganesh Baliga, Rowan University, NJ

4B Papers: K-12

Dana Hall Room 205

Session Chair: Mark LeBlanc, Wheaton College, MA

Widening the K-12 pipeline at a critical juncture with Flash

Michael Sands, Lehigh University, PA

James Evans, Lehigh University, PA

Glenn Blank, Lehigh University, PA

Connecting undergraduate programs to high school students:

teacher workshops on computational thinking and computer science

Patricia Morreale, Kean University, NJ

David Joiner, Kean University, NJ

George Chang, Kean University, NJ

Recruitment of CS majors through a non-programmer's programming contest

Mary Anne Egan, Siena College, NY

4C Panel:

Dana Hall 201/Mali I

*Writing intensive and writing extensive: a continuum
for advancing writing in computer science education*

Yana Kortsarts (Moderator) Widener University, PA

Mark E. Hoffman, Quinnipiac University, CT

Adam Fischbach, Widener University, PA

Janine Utell, Widener University, PA

Timothy Dansdill, Quinnipiac University, CT

4D Tutorial:

Dana Hall 202/Mali II

Teaching virtual reality to undergraduates

Daniel Cliburn, University of the Pacific, CA

BOX LUNCH (not included in registration fee)**12:45 p.m. – 1:30 p.m.**

Dana Hall Lobby (Ground floor)

MEMBERSHIP MEETING.....**1:30 p.m. – 2:00 p.m.**

Dana Hall Room 319

BOARD MEETING.....**2:00 p.m. – 4:00 p.m.**

Dana Hall Room 319

LIST OF FACULTY POSTERS:

Poster 1:

Accessible Robotics and Intelligence Systems for Social Science
Undergraduates

Tom Armstrong, Wheaton College, MA

Poster 2:

Role of the Programming Assignment Summary as a Qualitative
Assesment of Individual Student Performance

Karina Assiter, Wentworth Institute of Technology, MA

Poster 3:

TeachScheme, ReachJava: Introducing Object-Oriented Programming
Without Drowning in Syntax

Stephen Bloch, Adelphi University, NY

Poster 4:

The Computing Ontology and its Implications in Computing Education

Lillian Cassel, Villanova University, PA

SivaKumar Inguva, Villanova University, PA

Poster 5:

Ensemble: Enriching Communities and Collections to Support Education
in Computing

Lillian Cassel, Villanova University, PA

Ed Fox, Virginia Tech, VA

Weiguo Fax, Virginia Tech, VA

Richard Furuta, TAMU, TX

Frank Shipman, TAMU, TX

Dan Garcia, University of California, Berkeley, CA

Lois Delcambre, Portland State University, OR

Peter Brusilovsky, University of Pittsburgh, PA

Greg Hislop, Drexel University, PA

Sridhara Potluri, Villanova University, PA

Poster 6:

CSTA Source: A Web Repository of K-12 Computer Science Teaching
and Learning Materials

Lillian Cassel, Villanova University, PA

Sowmya Moturi, Villanova University, PA

Poster 7:

A Web Design & Multimedia Degree With a Twist

Pat Coulter, Pennsylvania College of Technology, PA

Denise Leete, Pennsylvania College of Technology, PA

Poster 8:

Computer Graphics Taught by Building a Rendering Engine

Paul Dickson, Hampshire College, MA

Poster 9:

The Benefits of Using Scratch to Introduce Basic Programming Concepts
in the Elementary Classroom

Patrice Gans, The Fraser-Woods School, CT

Poster 10:

Creating the Technology Savvy K-12 Teacher

Susan Imberman, College of Staten Island, NY

Roberta Klibaner, College of Staten Island, NY

Poster 11:

Integrating Merkle-Hellman Knapsack Cryptosystem into the
Undergraduate Computer Science Curriculum

Yana Kortsarts, Widener University, PA

Yulia Kempner, Holon Institute of Technology, Israel

- Poster 12:
medPing: Using Data Structures with Embedded Medical Devices
Mark LeBlanc, Wheaton College, MA
- Poster 13:
Learning Data Structures through Text Adventure Games
Lisa Michaud, Saint Anselm College, NH
- Poster 14:
Running a Computer Security course: Challenges, Tools, and Projects
Vladimir Riabov, Rivier College, NH
Bryan Higgs, Rivier College, NH
- Poster 15:
Using Groups on Facebook to Improve Communication with Students
James Ryder, SUNY Oneonta, NY
- Poster 16:
A General Education Course - "Introduction to Algorithmic Thinking" –
using Visual Logic
Namita Sarawagi, Rhode Island College, RI
- Poster 17:
A Dijkstra's Algorithm Shortest Path Assignment using the Google Maps
API
James Teresco, Mount Holyoke College, MA
- Poster 18:
Our Experience incorporating Robotics into our Service Course
David Toth, Merrimack College, MA
- Poster 19:
On Slider Puzzle Projects with .NET Collaboration Classes
Linda Wilkens, Providence College, RI