

**Consortium for
Computing Sciences in Colleges**
in cooperation with

**The Association for
Computing Machinery
Special Interest Group
on Computer Science Education**
presents

CCSCNE-2011

The Sixteenth Annual Consortium for Computing Sciences in Colleges Northeastern Conference



WESTERN NEW ENGLAND COLLEGE

April 15-16, 2011
Springfield, MA

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Mark your calendars for

CCSCNE 2012

Quinnipiac University

Hamden, CT

April 27 – 28, 2012

Conference Co-Chairs:

Mark Hoffman, *Quinnipiac University*

Jonathan Blake, *Quinnipiac University*

Welcome

Welcome to the 16th Annual Conference of the Northeast region of the Consortium for Computing Sciences in Colleges. The conference is held in cooperation with the ACM SIGCSE and Upsilon Pi Epsilon Honor Society and is hosted by Western New England College in Springfield, MA.

The program committee has worked hard to bring you a thought provoking conference featuring a range of topics, presented in a variety of formats. During the plenary sessions, Stormy Peters will present *Communities: Open Source and Education Working Together*, and Dr. Jane Chu Prey will present *What Can We Do? Raising the Numbers of Women in Computing*. We accepted 52% of the papers submitted. These will be presented in six sessions. We have seven tutorial sessions, a demo session, and two panel sessions.

In response to last year's record attendance, we have added an additional Friday morning, pre-conference workshop, bringing the total to four workshops. We will have a poster session for works in progress. And for our future educators, researchers, and practitioners, we have a student poster contest and a student programming contest.

We thank the program committee for their dogged dedication, without whom none of this would be possible. We thank the CCSCNE Board for their guidance and support. We thank our talented reviewers, who provided prompt and thorough reviews of submissions. We thank Western New England College for hosting the conference. Most importantly, we thank those who participate and attend the conference, making CCSCNE such a dynamic and provocative community.

We hope that you enjoy your visit to Springfield, MA and Western New England College, and that you leave feeling inspired and fulfilled.

Stoney Jackson, Conference Co-Chair
Western New England College

Karl R. Wurst, Conference Co-Chair
Worcester State University

CCSCNE 2011 Committee

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Western New England College

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Papers Co-Chair
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Karl Wurst

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The logo for Panasonic Solutions Company, featuring the text "Panasonic Solutions Company" in a bold, black, sans-serif font.	The logo for turingscraft, featuring a green 3D cube icon to the left of the text "turingscraft" in a green, lowercase, sans-serif font.

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Program of Events

Friday, April 15

Registration (10:00AM – 5:00PM)

Registration

Rivers Memorial

Programming Contest (7:45 AM - 12:45 PM)

7:45 Breakfast and registration of teams

Rivers Memorial

8:45 Initial meeting & presentation of problems

Sleith Hall
Room 100

9:00 Contest

announced during initial meeting

12:00 Luncheon for the teams

in labs

Pre-Conference Workshops (9:00 AM - 12:00 PM)

Workshop 1:

S. Prestley Blake Law Center

Greenfoot: Introducing Java with games and simulations

Room 3

Adrienne Decker, University at Buffalo, NY

Frances P. Trees, Drew University, NJ

Workshop 2:

S. Prestley Blake Law Center

Open source field trip for faculty

Room 4

Gregory W. Hislop, Drexel University, PA

Workshop 3:

S. Prestley Blake Law Center

Getting ready for a unit in Alice 2.2

Room C

Eileen M. Peluso, Lycoming College, PA

Workshop 4:

S. Prestley Blake Law Center

Introducing case study based teaching in computing curricula

Room D

Massood Towhidnejad, Embry-Riddle Aeronautical University, FL

Salamah Salamah, Embry-Riddle Aeronautical University, FL

Thomas B. Hilburn, Embry-Riddle Aeronautical University, FL

Vendor Displays (10:00 AM - 5:00 PM)

Vendor Display

Rivers Memorial

Welcome (1:00 PM - 1:15 PM)

Welcome

Rivers Memorial

Dr. Saeed Ghahramani, *Dean School of Arts and Sciences, WNEC*

Plenary Session 1 (1:15 PM - 2:15 PM)

What can we do?

Rivers Memorial

Raising the numbers of women in computing

Jane Chu Prey, PhD, *Microsoft Research*

This keynote is co-sponsored by ACM/SIGCSE

Concurrent Session 1(2:30 PM - 3:45 PM)

Paper Session 1A:

S. Prestley Blake Law Center

CS1

Room C

Improving the student success and retention of under achiever students in introductory computer science

Carolee Stewart-Gardiner, Kean University, NJ

Using Visual Logic©: Three different approaches in different courses – general education, CS0, and CS1

Dee Gudmundsen, The College of Saint Rose, NY

Lisa Olivieri, Chestnut Hill College, PA

Namita Sarawagi, Rhode Island College, RI

Aligning generations to improve retention in introductory computing courses

Christian Roberson, Plymouth State University, NH

Paper Session 1B:
Hardware and Systems

S. Prestley Blake Law Center
Room 3

Improving student performance with an extra-curricular robotics club

Charles Stevenson, Salem State University, MA

Introduction of virtualization in the teaching of operating systems for CS undergraduate program

Kevin Grammer, Salem State University, MA

Beifang Yi, Salem State University, MA

Kevin Grammer, Salem State University, MA

Demo 1C

S. Prestley Blake Law Center
Room D

Robotics across the curriculum with dLife

Grant Braught, Dickinson College, Carlisle, PA

Java visualization of student-implemented OS algorithms

Adam Fischbach, Widener University, Chester, PA

iJava – an online interactive textbook for elementary Java instruction

Robert Moll, University of Massachusetts, Amherst MA

Using the Google Maps API with highway mapping data as a pedagogical tool

James D. Teresco, Siena College, Loudonville, NY

That's neat – how do I do it?

Alice E. Fischer, University of New Haven, West Haven, CT

Tutorial 1D

D'Amour Library
Ground 26

Event-processing in Alice 2.2

Eileen M. Peluso, Lycoming College, PA

Vendor Session

S. Prestley Blake Law Center
Room 4

EMC Academic Alliance: Partnering to Bridge the Storage Knowledge Gap

Learn how you can enhance student career prospects in IT through the EMC Academic Alliance program. It offers a free storage course and training to qualified colleges.

Presenter: Kim Yohannan, EMC Academic Alliance Manager

Break (3:45 PM - 5:00 PM)

Student Posters

Rivers Memorial

Concurrent Session 2 (5:00 PM - 6:15 PM)

Paper Session 2A:

S. Prestley Blake Law Center

K-12 and the Community

Room C

Experiences with community-based projects for computing majors

Jeffrey Stone, Penn State University, PA

Elinor Madigan, Penn State University, PA

Changing perceptions of computer science and computational thinking among high school teachers

Patricia Morreale, Kean University, NJ

David Joiner, New Jersey Center for Science, Technology and Math, NJ

Injecting computer science into the K-12 classroom

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

Brandon Milonovich, The College of Saint Rose, NY

Paper Session 2B:
Software Engineering

S. Prestley Blake Law Center
Room D

Methodologies and tools for the software quality assurance course

Vladimir Riabov, Rivier College, NH

A software engineering course with a large-scale project and diverse roles for students

Bonnie MacKellar, St John's University, NY

Source code analysis and attack techniques as educational approaches to teach secure programming

Scott Harrison, St John Fisher College, NY

Nadine Hanebutte, St John Fisher College, NY

Tutorial 2C

S. Prestley Blake Law Center
Room 3

Greenfoot: An approach for introducing Java through simulations and games

Adrienne Decker, University at Buffalo, NY

Frances P. Trees, Drew University, NJ

Tutorial 2D

D'Amour Library
Ground 26

Learn how to use executable flowcharts to enhance learning in general education, CS0, and CS1 courses

Dee Gudmundsen, College of St. Rose, NY

Lisa Olivieri, Chestnut Hill College, PA

Namita Sarawagi, Rhode Island College, RI

Social Hour (6:30 PM - 7:30 PM)
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Faculty Posters

Rivers Memorial

Dinner Banquet (7:30 PM - 8:30 PM)

Dinner Banquet

Rivers Memorial

Program of Events

Saturday, April 16

Continental Breakfast (7:30 AM - 8:30 AM)

Continental Breakfast

Rivers Memorial

Registration (8:00 AM - 10:00 AM)

Registration

Rivers Memorial

Vendor Displays (8:00 AM - 12:00 PM)

Vendor Displays

Rivers Memorial

Concurrent Session 3 (8:30 AM - 9:45 AM)

Paper Session 3A:
CS1

S. Prestley Blake Law Center
Room C

Student interest and choice in programming assignments

Lisa Torrey, St. Lawrence University, NY

Content-based image retrieval programming assignments for introductory computer science courses

Michael Eckmann, Skidmore College, NY

Language considerations in the first year CS curriculum

Jonathan Blake, Quinnipiac University, CT

Panel 3B

S. Prestley Blake Law Center

Room D

Bioinformatics in the computer science curriculum

Mark D. LeBlanc, Wheaton College, MA

Dave Rilett, Wentworth Institute of Technology, MA

John Russo, Wentworth Institute of Technology, MA

Michael Werner, Wentworth Institute of Technology, MA

Hongsheng Wu, Wentworth Institute of Technology, MA

Tutorial 3C

S. Prestley Blake Law Center

Room 3

Understanding NSF funding opportunities

Sue Fitzgerald, National Science Foundation, VA

Tutorial 3D

D'Amour Library

Ground 26

Process-oriented guided inquiry learning (POGIL) in computer science

Clif Kussmaul, Muhlenberg College, PA

Plenary Session 2 (10:00 AM - 11:00 AM)

Communities:

Rivers Memorial

Open source and education working together

Stormy Peters, *Head of Developer Engagement at Mozilla*

Break (11:00 AM - 11:30 AM)

Break

Rivers Memorial

Concurrent Session 4 (11:30 AM - 12:45 PM)

Paper Session 4A:

S. Prestley Blake Law Center

Multimedia Applications

Room C

Motivating students taking CS1 by using image manipulation in C and C++

Paul Dickson, Hampshire College, MA

The iPhone/iPad course: A small college perspective

Lubomir Ivanov, Iona College, NY

SoundLib: A music library for a novice Java programmer

Viera Proulx, Northeastern University, MA

Panel 4B

S. Prestley Blake Law Center
Room D

Untangling the maze of pedagogical strategies for introductory programming

Frances Bailie, Iona College, NY
Adel Abunawass, University of West Georgia, GA
Smiljana Petrovic, Iona College, NY
Deborah Whitfield, Slippery Rock University, PA

Tutorial 4C

S. Prestley Blake Law Center
Room 3

Sharing your instructional materials via Ensemble

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, Berkley, CA

Tutorial 4D

D'Amour Library
Ground 26

Short mobile game development projects for CS1/2

Stan Kurkovsky, Central Connecticut State University, CT
Delvin Defoe, Rose-Hulman Institute of Technology, IN

Box Lunch (12:45 PM - 1:30 PM)

Box Lunch (not included in registration fee)

Rivers Memorial

Membership Meeting (1:30 PM - 2:00 PM)

Membership Meeting

Campus Center
Conference Room 4

Board Meeting (2:00 PM - 4:00 PM)

Board Meeting

Campus Center
Conference Room 4

Faculty Posters

- 1: ***Motion capture in a CS curriculum***
Bridget Baird, Connecticut College, CT
Ozgur Izmirlı, Connecticut College, CT
- 2: ***Computer science education in high schools in Western New York***
Sarbani Banerjee, Buffalo State College, NY
- 3: ***How computer science develops mathematical skills***
Reneta P. Barneva, State University of New York at Fredonia, NY
Boris Brimkov, SUNY University at Buffalo, NY
- 4: ***Robotics, AI and vision in Java with the dLife library***
Grant Braught, Dickinson College, PA
- 5: ***An updated taxonomy of writing in computer science education***
Mark E Hoffman, Quinnipiac University, CT
- 6: ***The computer science club: Building a student community with projects and activities that extend beyond the classroom***
Susan P. Imberman, College of Staten Island, NY
- 7: ***Capstone experience: Engaging students in speech processing to excite them about STEM***
Michael Jonas, University of New Hampshire at Manchester, NH
- 8: ***A web service to connect data analysis and visualization***
Thomas Jyh-Cheng Liu, New Jersey City University, NJ
- 9: ***Using penny auctions to introduce non-CS majors to modeling and simulation***
David Toth, Merrimack College, MA
- 10: ***The design and complexity analysis of the light-up puzzle***
Douglas Selent, Rivier College, NH
- 11: ***Digital home: A case study approach to teaching in computing curricula***
Massood Tawhidnejad, Embry-Riddle Aeronautical University, FL
Salamah Salamah, Embry-Riddle Aeronautical University, FL
Thomas Hilburn, Embry-Riddle Aeronautical University, FL
- 12: ***Mathdoku projects: Monte-Carlo meets methodology***
Linda Wilkens, Providence College, RI
- 13: ***Mining forums for asynchronous learning in distance education***
Songmei Yu, Felician College, NJ
Sofya Pogor, Felician College, NJ
Alberto LaCava, Felician College, NJ

Student Posters

- 5001: ***An Approach to Securing VoIP Systems***
Rockwood Cataldo, Worcester State University, MA
- 5002: ***Cryptanalysis of the Vigenère Cipher***
Kimberly Chiffens, Widener University, PA
Maria Jannelli, Widener University, PA
- 5003: ***Bioinformatic Algorithms: Dynamic Programming and Graph Theory***
Joseph Fijalkowski, Widener University, PA
- 5004: ***Exploration of Computer Science for High School Students through iPod Technology***
Jessica D'Agostino, St. John Fisher College, NY
- 5005: ***Flipping Coins over the Telephone***
Louis Szgalsky, Widener University, PA
- 5006: ***The Optimal Mind-Reader: Data Mining Schemes that Decipher fNIRS Output***
Sam Hincks, Hamilton College, NY
- 5007: ***Are Your Wireless Communications Secure?***
Sam Hincks, Hamilton College, NY
- 5008: ***diviText: Graphical and Automated Text Segmentation for Text Mining***
Amos Jones, Wheaton College, MA
- 5009: ***Extraction of Non-trivial Repeating Patterns from Musical Data***
Stephen Tetreault, Rhode Island College, RI
- 5010: ***A High Performance Computing Approach to Ramsey Theory***
Stephan Krach, Merrimack College, MA
- 5011: ***Query Optimization Techniques***
Xiang Cui, Felician College, NJ
- 5013: ***MYCROFT: A Parallel Framework for Probabilistic Logic Operations Based On Map-Reduce***
John Ohno, University of New Haven, CT
- 5014: ***Parallelization of a Computer Game***
Michael Weachock, State University of New York at Geneseo, NY
- 5015: ***Visualizing an Image Matching Stochastic Diffusion Search on a Parallel Computing Cluster***
Herb Susmann, State University of New York at Geneseo, NY

- 5016: ***Sort Detective & Detective Creator***
Coty M. Collins, St. Bonaventure University, NY
- 5017: ***Left 4 Dead: Aperture Incursion***
Stephen Fernandez, University of New Haven, CT
- 5018: ***Performance Differences Observed Using ActiveRecord vs. DataMapper for 140kit.com***
Ian Pearce, Bennington College, VT
Devin Gaffney, Bennington College, VT
- 5019: ***Kinetic Spectrum***
Jacqueline Manzi, Wentworth Institute of Technology, MA
- 5020: ***Unsupervised Phoneme Segmentation in Continuous Speech***
Stephanie Antetomaso, Wheaton College, MA
- 5021: ***Computer Forensics: Forensic Boot Environment***
Richard Sang, Champlain College, VT
- 5022: ***Real Time Tempo and Beat Tracking with a DSP Card***
Bo Xiong, Connecticut College, CT
- 5023: ***Botnets: An Overview with Practical Applications***
Christopher Ballachino, University of New Haven, CT
Kimberly Harman, University of New Haven, CT
- 5024: ***Native Video Processing in a Mobile Environment***
Kieran Nichols, University of Maine at Farmington, ME
- 5025: ***Examining the Effectiveness of End-to-End Correlation Attacks on the Deployed Tor Network***
Sam DeFabbia-Kane, Wesleyan University, CT
- 5026: ***Incorporating HIPAA Regulations in Design of Healthcare Information Systems***
Reena Pathickal, Felician College, NJ
Meenakshi Ralli, Felician College, NJ
- 5027: ***A Simulation of Circuit Creation in Tor***
William Boyd, Wesleyan University, CT
- 5028: ***Parallelized Bioinformatics Algorithms***
Gregory Mitrano, Wentworth Institute of Technology, MA
Kyle Reid, Wentworth Institute of Technology, MA
- 5029: ***New Teaching Tool: Video and Computer Games***
Sean McGuire, Felician College, NJ
- 5030: ***Paperless Textbooks***
Kristin Palazzolo, Villanova University, PA

- 5031: ***Developing Semantic Web Technologies for Biological Data Representation***
Ryan Lehman, Washington and Jefferson College, PA
Alison L. Nolan, Ursinus College, PA
- 5032: ***Encouraging Deep Engagement in Museums Through Social and Mobile Technologies***
Consuelo Valdes, Wellesley College, MA
Michelle Ferrieræ, Wellesley College, MA
MaCherie Edwards, Wellesley College, MA
- 5033: ***Representative Polling Module for the Drupal Framework***
Ben Asher Heilman, Muhlenberg College, PA
- 5034: ***Designing Reusable User-Interfaces for Browsing a Collection of Neuroscience Ontologies***
Alison L. Nolan, Ursinus College, PA
- 5035: ***LVRPC: A Modern Remote Procedure Call Library for C++***
Jonathan Sutowski, Lebanon Valley College, PA
- 5036: ***Developing a Tool for Dance Motion Synthesis***
Ajjen Joshi, Connecticut College, CT
- 5038: ***Port Knocking: Three Linux-based Implementations***
Chelsea Hoover, Wellesley College, MA
- 5039: ***Learning By Doing: Teaching Real-World Attacks to Undergraduate Students***
Tyler Kilburn, St. John Fisher College, NY
Christopher Steadman, St. John Fisher College, NY
- 5040: ***Hora: Software for Computer-Aided Choreography***
Rebecca Graber, Wellesley College, MA
- 5041: ***Rendering Geometric Shapes Using Volumetric Constructive Solid Geometry***
Hieu Quang Tran, State University of New York at Geneseo, NY
- 5042: ***Lowering the Barrier to Utilizing Private Clouds: An Approach to Managing Heterogeneous Systems Under a Single Interface***
Justin Duperre, Western New England College, MA
- 5043: ***Where Can the Locker Problem Lead Us?***
Daniel Irving, Rhode Island College, RI

About the Keynote Speakers

Jane Chu Prey, PhD

Microsoft Research

Dr. Prey received her BS degree from the University of Illinois Urbana in biology and her PhD from the University of Virginia in Instructional Technology. She was a faculty member in the Computer Science Department at the University of Virginia for 11 years before joining Microsoft Research in January, 2004 where she led the Tablet Technologies in Higher Education initiative. Jane is currently responsible for the development and implementation of the Gender Diversity and Pipeline Strategy for Microsoft Research. Dr. Prey also spent two years as the Computer Science Program Manager at the National Science Foundation in the Division of Undergraduate Education. She is a member of the IEEE CS Board of Governors, the ACM Education Board, and the CRA Board as well as a number of university advisory boards.

Jane and her husband of 35+years have 3 children [all in computing careers]. She loves to travel and read cookbooks and murder mysteries.

Stormy Peters

Head of Developer Engagement at Mozilla

Stormy Peters is the Head of Developer Engagement at Mozilla where she is passionate about open web technologies and the developers that use them. Previously she worked as Executive Director of the GNOME Foundation. Stormy has experience with open source communities and business. She set up OpenLogic Expert Community linking the community to businesses that use their technology. She also worked at Hewlett-Packard where she founded and managed the Open Source Program Office that is responsible for HP's open source strategy, policy and business practices. She received a Bachelor's degree in Computer Science from Rice University. Stormy Peters is a passionate and frequent keynote speaker on free software related topics.

Colleges Participating in the 2011 Programming Contest

Bloomsburg University
Canisius College
Champlain College
Connecticut College
Framingham State University
Hamilton College
Iona College
Marist College
Massbay Community College
Middlebury College
Pennsylvania College of Technology
Plymouth State University
Providence College
Rhode Island College
Salem State University
Siena College
Smith College
St. Bonaventure University
St. John Fisher College
Suffolk County Community College
SUNY College at Oneonta
SUNY Fredonia
SUNY Orange
The College at Brockport
The College of Saint Rose
University of Maine at Farmington
University of New Haven
Wheaton College
Widener University
Worcester State University

Reviewers

This conference is possible only because of the hard work of the entire community. CCSCNE gratefully acknowledges the following reviewers who assisted in selecting the workshops, tutorials, and papers presented at this conference.

Workshops and Tutorials

Reneta Barneva
SUNY Fredonia

Stephen Block
Aldephi University

Marc Corliss
*Hobart & William Smith
Colleges*

Nicholas DeLillo
Manhattan College

Lucia Dettori
DePaul University

Alessio Gaspar
*University of South Florida
Polytechnic*

Ernie Giangrande Jr.
Wingate University

John Giordano
U.S. Army

Sandeep Mitra
The College at Brockport

Lori Postner
Nassau Community College

Cherie Sherman
Ramapo College of New Jersey

Papers

Ziya Arnavut
SUNY Fredonia

Barbara Bracken
Wilkes University

Warren Carithers
*Rochester Institute of
Technology*

Aaron Cass
Union College

Elizabeth Chang,
Hood College

Yan Chen
*Borough of Manhattan
Community College/CUNY*

Mary Courtney
Pace University

Lawrence D'Antonio
Ramapo College of New Jersey

Bob Dugan
Stonehill College

Michael Eckmann
Skidmore College

Lonnie Fairchild
SUNY Plattsburgh

Chris Fernandes
Union College

Adam Fischbach
Widener University

Jill Gerhardt
Stockton College

Delbert Hart
SUNY Plattsburgh

David Hemmendinger
Union College

Mark Hoffman
Quinnipiac University

Donald Hsu
Dominican College

Deborah Hughes
Lyndon State College

Susan Imberman
College of Staten Island

Bradley Kjell
Central Connecticut State University

David Levine
St. Bonaventure University

Joan Lucas
The College at Brockport

Bonnie MacKellar
St John's University

Jeff Martens
*University of Maryland,
Baltimore County*

Robert McCloskey
University of Scranton

Scott McElfresh
Wake Forest University

Barbara Nostrand
de Moivre Institute

Eileen Peluso
Lycoming College

Sofya Poger
Felician College

Rathika Rajaravivarma
NYCCT

V Rajaravivarma
SUNY Farmingdale State College

John Rieffel
Union College

Christian Roberson
Plymouth State University

Ian Sanders
University of the Witwatersrand

Jeffrey Stone
Penn State University

James Teresco
Siena College

Carol Traynor
Saint Anselm College

John Vaughn
Hobart and William Smith Colleges

David Voorhees
Le Moyne College

Xiaohong (Sophie) Wang
Salisbury University

Beifang Yi
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The logo for Panasonic Solutions Company, featuring the text "Panasonic Solutions Company" in a bold, black, sans-serif font.	The logo for turingscraft, featuring a green 3D cube icon to the left of the text "turingscraft" in a green, lowercase, sans-serif font.

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