Consortium for
Computing Sciences in Colleges
In cooperation with

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

CCSCNE-2014

The Nineteenth Annual Consortium for Computing Sciences in Colleges Northeastern Conference

PROVIDENCE COLLEGE

April 25 - 26, 2014
Providence, RI

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CCSCNE 2014 Chairs' Welcome

Welcome to CCSCNE-14. Providence College is happy to host the CCSC regional meeting that annually is the largest of them all.

For the last seven years, we have met in New York and along the Connecticut River but now we are back in Southeastern New England. Coincidentally, the last times we were here, we met at Providence College in 2005 and College of the Holy Cross in 2006. We will repeat that plan in 2014 and 2015. A lot has happened in Computing Sciences in those seven years.

Our Friday Keynote speaker from RPI, Jim Hendler, will address one of the major events in our field in those years—the emergence of Big Data. Our second keynoter, Mehran Sahami of Stanford University, will continue our long-standing emphasis on how to make the CS curriculum match the changes in the field. I thank Ingrid Russell and Val Kolesnikov for obtaining these speakers.

Our four workshops have a wide range of topics from robotics to software engineering. I thank Bonnie MacKeller and Krista Hill for organizing these.

The break-out sessions are a mix of papers and tutorials. Under the direction of Jim Teresco, who took on the new task of over-seeing all the reviewing, Bonnie Mackeller, Krista Hill, Susan Imberman, Yana Kortsarts, Ian MacDonald, and Mark Bailey chose the best presentations for our conference. John P. Russo and Jim Teresco reviewed the faculty posters.

All papers were double-blind reviewed and the acceptance rate for papers was 44%. I thank the committee and all reviewers for their dedication to this work.

This year, we have three events for students. Del Hart, Adam Villa and Namita Sarawagi are implementing the annual programming contest. The members of the Undergraduate Posters committee, Jeremy Brown, Alice Fischer, Sandeep Mitra and Bob Dugan, will review the posters during the conference.

At our planning meeting in September, I asked Darren Lim and Karl Wurst to develop another activity for students between the programming contest on Friday morning and the student posters on Friday afternoon. They and Stony Jackson are producing "h@ckfest" involving HFOSS.

I thank Mark Hoffman and Lisa Michaud for handling all matters regarding conference registration, as well as, Nadine Hanebutte for producing the conference program. In addition, Mike Gousie has gathered the information that is printed in the CCSC Journal.

Finally, I must thank my secretary, Lynne DeMasi, who has a big book where she keeps all the details of the planning together.

So, again, welcome to CCSCNE-14. Please enjoy this wonderful event.

Frank Ford
Conference Chair
Providence College

CCSCNE 2014 Committee

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Conference Chair
Faculty Posters Co-Chair
Providence College

Adam Villa
Programming Contest Co-Chair
Providence College

Mark Bailey
Papers Co-Chair
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Darren Lim
Web Design Contest Chair
Siena College

Ingrid Russell
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Program of Events: Friday, April 25

Registration (10:00 AM – 4:00 PM)

Registration & hospitalities	Slavin Center outside '64 Hall

Programming Contest (8:00 AM - 12:30 PM)

8:00	Registration of teams	Accinno Hall Lobby
8:00	Hospitalities	Accinno Hall Room 201
9:00	Initial meeting & presentation of problems	Accinno Hall Lobby
9:15	Contest	Accinno Hall Rooms 100, 202, 207
12:00	Programming contest lunch	Accinno Hall Room 201

Workshop Registration & Breakfast (8:00 AM – 9:00 AM)

Workshops 1, 3, and 4	Slavin Center outside '64 Hall
Workshop 2	Library Room 233

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

Workshop 1:   Slavin Center Room LL 19
Using the NAO Humanoid Robot in the Classroom
> David Eggert and Christopher Martinez, University of New Haven

Workshop 2:   Library Room 233
Getting Started in Open Source – A Tour of a Real Project
> Heidi Ellis, Western New England University
> Darci Burdge, Western New England University
> Lori Postner, Nassau Community College
> Gregory Hislop, Drexel University

Workshop 3:   Alumni Hall Alumni Private Dining Room
Mobile Computational Thinking with App Inventor 2
> Franklyn Turbak, Wellesley College
> Shaileen Pokress, Massachusetts Institute of Technology
> Mark Sherman, University of Massachusetts Lowell

Workshop 4   Slavin Center Room 112
Teaching Life Lessons in a Capstone Course:
Software Engineering as a Finishing School
> Darren Lim and Timoth Lederman, Siena College

H@ckfest for Students and Faculty (2:30 PM – 11:59 PM)

H@ckfest   Accinno Hall Rooms 100, 202, 207

Check-In & Hospitalities   Accinno Hall Room 201

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

Welcome Address   Slavin Center '64 Hall

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

Big Data Meets Computer Science   Slavin Center '64 Hall
> Jim Hendler, Director
> Rensselaer Polytechnic Institute for Data Exploration and Applications

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Break (2:15 PM – 2:30 PM) - Slavin Center outside '64 Hall

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

Paper Session 1A: *Algorithmic/Computational*   Slavin Center Room LL 01
Thinking (Session chair: Dr. Joan E. DeBello)

A Flipped CS0 Classroom: Applying Bloom's
Taxonomy to Algorithmic Thinking
> Namita Sarawagi, Rhode Island College

Problem Solving and Algorithmic Thinking
>   Ed Lamagna, University of Rhode Island

Computational Thinking Expanding the Toolkit
>   Susan Imberman, College of Staten Island
>   Deborah Sturm, College of Staten Island
>   Mohammed Azhar, Borough of Manhattan Community College

Tutorial Session 1B   Slavin Center Room 112

**Creating a GPS/GIS Technologies Course
Module Using Google Earth**
>   Rajesh Prasad, Saint Anselm College
>   Carol Traynor, Saint Anselm College

Paper Session 1C: *Alternative Approaches*   Slavin Center Room LL 03
(Session chair: Dr. Alice Fisher)

The Affective Tutor
>   Timothy Hickey, Brandeis University
>   William Tarimo, Brandeis University

A Game Programming Instructional Design Model
>   Penn Wu, DeVry University

The Human Computer
>   Christopher Stuetzle, Merrimack College

Break (3:45 PM – 4:15 PM) - Slavin Center outside '64 Hall

Concurrent Session 2 (4:15 PM - 5:30 PM)

Paper Session 2A: *Special Topics*   Slavin Center Room LL 01
(Session chair: Dr. Daniel Rogers)

**A Cryptographic Sandbox for an Introductory
Security Course in Information Technology**
>   Michael Jonas, University of New Hampshire at Manchester

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An Introduction to Event–Based Programming in App Inventor
    Franklyn Turbak, Wellesley College
    Mark Sherman, University of Massachusetts
    Fred Martin, University of Massachusetts Lowell
    David Wolber, University of San Francisco
    Shaileen Pokress, Massachusetts Institute of Technology

Tutorial Session 2B: Slavin Center Room 112

NetLogo and Multi–Agent Simulation
(In Introductory Computer Science)
    Matthew Dickerson, Middlebury College

Tutorial Session 2C   Slavin Center Room LL 03

3D Printing–Why All the Fuss? Assembly Process and Demonstration
    Greg Pleva, Southern Oregon University

Social Hour (5:30 PM - 7:00 PM)

Faculty Posters & Reception   Slavin Center at and outside McPhail's

Student Posters   Slavin Center at and outside McPhail's

Dinner Banquet (7:00 PM – 9:00 PM)

Presentation of Awards for Programming Contest,   Slavin Center '64 Hall
H@ckfest and Student Posters

Program of Events: Saturday, April 26

Registration (7:30 AM – 10:00 AM)

Registration & hospitalities   Slavin Center outside '64 Hall

Plenary Session 2 (9:00 AM - 10:00 AM)

Computer Science Curricula for the Coming Decade   Slavin Center '64 Hall
    Mehran Sahami,
    Stanford University

Concurrent Session 3 (10:00 AM - 11:15 AM)

Papers Session 3A: *Upper-Level Courses*   Slavin Center Room LL 01
(Session chair: Dr. Adrian Ionescu)

A Project–based Curriculum for Algorithm Design and Intractability Centered on the Traveling Salesperson Problem
    Andrea Lobo, Rowan University
    Ganesh Baliga, Rowan University

Discovering the Java Reflection API with an Iterated Prisoner's Dilemma
    Drue Coles, Bloomsberg University

Evil Robots and Helpful Droids: A Seminar for a Junior/Senior Artificial Intelligence Course
    Lisa Michaud, Merrimack College

Tutorial 3B   Slavin Center Room 112

Board Game Strategies as an Intro CS Project
    James Heliotis, Rochester Institute of Technology
    Ivona Bezakova, Rochester Institute of Technology
    Sean Strout, Rochester Institute of Technology

Panel 3C   Slavin Center Room 112

NSF–Sponsored Innovative Approaches to
Undergraduate Computer Science
    Matthew Dickerson, Middlebury College
    Stephen Bloch, Adelphi University
    Peter DePasquale, The College of New Jersey
    Amruth Kumar, Ramapo College of New Jersey
    Stan Kurkovsky, Central Connecticut State University
    Clif Kussmaul, Muhlenberg College

Break (11:15 AM - 11:30 AM) - Slavin Center outside '64 Hall

Concurrent Session 4 (11:30 AM – 1:15 PM)

Paper and Demo Session 4A: *Teaching Tools*   Slavin Center Room LL 01   S
(Session chair: Dr. Yana Kortsarts)

Come Code with Codester: An Educational App That
Teaches Computer Science to K-12 Students
    Darren Lim, Siena College
    Gili Rusak, Siena College

A New Browser–based C Programming Environment for CS1
    Derrell Lipman, University of Massachusetts Lowell

Demo: Using Auto–Generated Materials to Facilitate Instructors'
Offline Preparation Time and Improve Students' Learning Outcomes
    Duo (Helen) Wei, Richard Stockton College of New Jersey
    Sen Zhang, SUNY Oneonta

Tutorial Session 4B   Slavin Center Room 112

Python as a First Programming Language
    Charles Dierbach, Towson University

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Tutorial Session 4C   Slavin Center Room LL 03

Let's Start Flipping (the Classroom)
    Namita Sarawagi, Rhode Island College

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

Membership Meeting   Slavin Center Room LL 19

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

Board Meeting   Slavin Center Room LL 19

Faculty Posters

1: **Integrating Computer Science Components into Undergraduate Level Medical Informatics Curriculu**m
> Duo (Helen) Wei, Richard Stockton College of New Jersey

2: **Pedagogical Aspects Of Mentoring in an Outreach Program**
> Bruria Haberman, The Weizmann Institute of Science
> Orni Meerbaum-Salant, The Weizmann Institute of Science
> Cecile Yehezkel, Bar Ilan University

3: **Adoption of Schematic Based Approach to Soft-Processors in Devices Lab Course**
> Krista M. Hill, University of Hartford

4: **Interdisciplinary Group Projects in Game Design and Mobile Web and App Development**
> Beryl Hoffman, Elms College

Student Posters

5001: Women in Computing: What Works
Kaitlyn Hitchcock and Alexandra Wentzel, Widener University

5003: Interactive Visualization of the Mandelbrot Set Using Parallel Computation
Shawn Ward, SUNY Geneseo

5004: A Mobile Application to Track Campus Shuttle Buses
Jeffrey Fisher, Evan Fleisher and Matthew Andre, The College at Brockport

5006: The Feeling of Sound
Matthew Ciarletto and Christian Ruiz, University of New Haven

5007: Project IRIS - Wi-Fi Communication between Workout-Tracking Watch and Web Application
Matthew Ciarletto and Timothy Whitfield, University of New Haven

5008: Linguistics-based Psychological Profiling in Digital Forensics
Kyle Anthony and Timothy Whitfield, University of New Haven

5009: Persistent Medical Monitoring Using Raspberry Pi Devices
Kun Jiang and Daniel Wiederecht, Widener University

5011: An Evolutionary Algorithm for Stone Facades
Kraig Boates, Stonehill College

5012: Adaptive Systems: Making Reading Easier
Sarah Hammond, Hamilton College

5013: Comparing the Performance of Distributed Machine Learning Algorithms
Herb Sussman, SUNY Geneseo

5014: A Parallel Solution to Image Collection and Analysis
Tyler Barber and Matthew Hunger, SUNY Potsdam

5015: Cryptographic Libraries
Max Reinhold, SUNY Oneonta

5016: Semi-Automatic Discovery and Categorization of Semantic Errors
Adam Gwilliam, Hamilton College

5017: Using a Beowulf Cluster for the Computation of Allelic Frequencies on DNA Samples
Justin Jiang, Patrick Ryan, Grant Fitzgerald, Richard Hayes, Julian Kuk, Chester Moses and Lindsay Schulman, Mass Bay Community College

5018: English Chinese Learning System
Stephen Chin, Tuo Chen and Samip Suwal, Salem State University

5019: Graphical Visualization of Eye-Tracking Data
Tongbo Sui, Wheaton College

5020: Visualization of Diverse Cellular Automata on a Computer Cluster
Lucas Groenendaal, SUNY Geneseo

5021: Lexos: A Text Mining Workflow
Devin Delfino, Bryan Jensen, Mengyang Li, Julia Morneau and Richard Neal, Wheaton College

5022: Implementing a Graphical User Interface for SNOMED CT
Anthony Masi, Manhattan College

5023: Development of Problem Corpus for Introductory Computer Science
Margaret Coleman and Katherine Droppa, Hamilton College

5024: Dominating Sets in Wireless Sensor Networks
Michelle Tanco, Ursinus College

5025: iOS Athletics App
Kyle Anthony, Roberto Mejia, Ben Bates and ReeceAnn Buendia, University of New Haven

5026: Parallel Processing in Ant Colony Optimization
Edward Pryor, SUNY Potsdam

5027: Messy Desk: A Collaborative Tool For Students
Shelby Malone, Canisius College

5028: Icon Skunk
Sam Alexander, Quinnipiac University

5030: Software Patents and the Controversy Behind It
Todd Bayne, Quinnipiac University

5031: Individual Differences in Sender Believability's Impact on Deception Detection Judgment Measured with fNIRS
Nicholas Brewer, Elliott Greenham and Samuel Kotlove, Hamilton College

5032: Factoring Integers with MPI and CUDA: Parallel Programming on Clusters and GPUs
Andrew Barkley and Marc Dean Jr., SUNY Potsdam

5033: 2D Game Development Using XNA
Tom Marini, Salem State University

5034: An Arduino-Based Queue Monitoring and Analysis System for School Cafeterias
Ryan Randall, Stonehill College

5035: CodeSync: A Collaborative Coding Environment for Novice Web Developers
Monica Starr Feldman, Wellesley College

5036: Unriddle the Cube: A Leap Motion App
Clayton Rieck, Bryan Jensen, Aimee Avila and Robert Gutierrez, Wheaton College

5037: Massive Parallel Acoustic Training in Speech Using the SETI Model
Colby Johnson, Tom McCarthy, David Meehan and Forrest Suprenant, University of New Hampshire at Manchester

5038: Genetic Algorithm Population Simulation
Christopher Zumberge, Muhlenberg College

5039: Culinary Scheduling Assistant Application
Timothy Gee, Muhlenberg College

5040: Architecture Re-Design and Simulation
Nicholas Dibartolomeo, Benjamin Foster and Zachary Harvey,
SUNYIT Utica

5041: Extending Quizly
Bhargavi Ramanathan, Wellesley College

5042: Improving App Inventor Debugging Support
Johanna Okerlund, Wellesley College

5044: Integrating App Inventor Applications With SQL Database Services
David Meehan, University of New Hampshire at Manchester

5046: The Language of Facebook Users: A Qualitative and Quantitative Model for Identifying Personality Traits
Rachel Friedman and Chris Lepre, Hamilton College

5047: Engaging Pre-college Students in CyberSecurity Using Animations and Games
John Remondi, Mass Bay Community College

5048: Fairness in Employee Scheduling
Erica Stockwell-Alpert, Connecticut College

5050: Adding New List Operators to App Inventor
Soojin Kim, Wellesley College

5051: Improving the Usability of App Inventor through Conversion between Blocks and Text
Karishma Chadha, Wellesley College

5053: GRAPH-ENE - A Web Based Graphing Program
James Torres, Rhode Island College

5055: LyonTracks
Evan Chessman, Alicia Herbert, Julia Morneau and Richard Neal,
Wheaton College

5056: Sentiment Analysis of Egyptian Arabic in Social Media
Mohamed Abdalkader, Haverford College

5057: Testing 3D Capabilities of Virtual Reality Hardware
    Justin Anderson, Connecticut College

5058: Path Planning for Sidewalk Snow Clearing using AI search
    Riley Bauer, The College at Brockport

5059: Dusty Vent: Rapid Game Prototyping using HTML5/Javascript and C++/Simple DirectMedia Layer
    Jeffrey Swift, Nicholas Freville and Patrick Hodge, SUNY Fredonia

About the Keynote Speakers

Jim Hendler

Director, Rensselaer Institute for Data Exploration and Applications, Rensselaer Polytechnic Institute

Jim Hendler is the Director of the Institute for Data Exploration and Applications and the Tetherless World Professor of Computer, Web and Cognitive Sciences at RPI. An early researcher in the "Semantic Web area," he was the recipient of a 1995 Fulbright Foundation Fellowship, is a former member of the US Air Force Science Advisory Board, and is a Fellow of the American Association for Artificial Intelligence, the British Computer Society, the IEEE and the AAAS and was the first computer scientist to serve on the Board of Reviewing editors for Science. He is also the former Chief Scientist of the Information Systems Office at the US Defense Advanced Research Projects Agency (DARPA) and was awarded a US Air Force Exceptional Civilian Service Medal in 2002. In 2010, he was named one of the 20 most innovative professors in America by Playboy magazine and was selected as an "Internet Web Expert" by the US government. In 2012, he was one of the inaugural recipients of the Strata Conference "Big Data" awards for his work on large-scale open government data, and he is a columnist and associate editor of the Big Data journal. In 2013, Governor Andrew Cuomo appointed Jim Hendler to be New York State's Open Data Advisor.

Mehran Sahami

Professor and Associate Chair for Education in the Computer Science Department, and the Robert and Ruth Halperin University Fellow in Undergraduate Education, Stanford University

Mehran Sahami is a Professor and Associate Chair for Education in the Computer Science department, and the Robert and Ruth Halperin University Fellow in Undergraduate Education at Stanford University. Prior to joining the Stanford faculty, he was a Senior Research Scientist at Google for several years. His research interests include computer science education, machine learning, and web search. He is co-chair of the ACM/IEEE-CS joint task force on Computer Science Curricula 2013 (CS2013). He has published over 40 technical papers and has over 20 patent filings. He received his BS, MS, and Ph.D. in Computer Science from Stanford University.

Colleges Participating in the
2014 Programming Contest

Central Connecticut State University

Chestnut Hill College

Clark University

Fitchburg State University

Framingham State University

Hamilton College

Manhattan College

Middlebury College

Muhlenberg College

Pennsylvania College of Technology

Providence College

Rhode Island College

Salem State University

Southern Maine Community College

St. John's University

SUNY Fredonia

SUNY Oneonta

SUNY Orange

SUNY Plattsburgh

The College at Brockport

The College of Saint Rose

The University of New Haven

University of New Hampshire at Manchester

University of Maine Farmington

Wellesley College

Wheaton College

Widener University

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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.

John Avitabile,
College of Saint Rose, Albany, NY

Valerie Barr,
Union College, Schenectady, NY

Shari Bemis,
Keene State College, Keene, NH

Jonathan Blake
Quinnipiac University, Hamden, CT

Barbara Bracken,
Wilkes University, Wilkes-Barre, PA

Alistair Campbell,
Hamilton College, Clinton, NY

Aaron Cass,
Union College, Schenectady, NY

Yan Chen,
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See you next year for
CCSCNE 2015
April 17-18, 2015
College of the Holy Cross
Worcester, MA