Day / Time	Theme	Topic	Track	Room	Title	Authors
Wednesday March 8th, 2017						
Wed March 8th 8:30 - 5pm	Pre-Symposium Event			606	Managing the Early Academic Career for Women Faculty in Undergraduate Computing Programs	Sheila Castaneda and Susan Rodger
				607	Managing the Early Academic Career for Women Graduate Students Pursuing Faculty Positions in Undergraduate Computing Programs	Sheila Castaneda and Susan Rodger
				604	Making K-12 Computer Science Accessible	Richard Ladner, Andreas Stefik and Brianna Blaser
				616-617	Department Chairs Roundtable	Mary Lou Maher
				618-619	Seeking Global, Industry and Training Provider Perspectives to Inform the ACM Joint Task Force for Cybersecurity Education	Diana Burley, Matt Bishop, Siddharth Kaza, Elizabeth Hawthorne, David Gibson and Scott Buck
				602	POGIL in CS: Small Steps & Giant Leaps	Clifton Kussmaul, Helen Hu and Chris Mayfield
Wed March 8th 8:30 - 5:30pm				613-614	POSSE Roundup – Student Participation in Humanitarian Open Source Software	Gregory Hislop
Wed March 8th 1 - 5pm				603	Strategies for Integrating Driverless Cars into the Computing Curricula	Michael Goldweber and Karla Carter
Wed March 8th 1:30 - 5pm				612	Aligning to the ACM Cybersecurity-infused Computer Science Transfer Curriculum	Elizabeth Hawthorne, Cara Tang, Cindy Tucker and Christian Servin
				611	NSF UP CS Ed Research Event for Emerging CS Education Researchers at SIGCSE	Eileen Kraemer, Russ Marion and Murali Sitaraman
Wed March 8th 7-10pm	Wednesday Workshops			618-619	Workshop 101: GP: A General Purpose Blocks-Based Language	John Maloney, Michael Nagle, Jens Mönig and Mark Guzdial
				616-617	Workshop 102: Designing Empirical Education Research Studies (DEERS): Creating an Answerable Research Question	Sarah Heckman, Jeffrey C. Carver and Mark Sherriff
				613-614	Workshop 103: A Web-Based IDE for Teaching with Any Language	David J. Malan, Nikolai Onken and Dan Armendariz
				606	Workshop 104: Increasing Student Interest in Data Structures Courses with Real-World Data and Visualizations Using BRIDGES	Kalpathi Subramanian and Jamie Payton
				611	Workshop 105: Using AppVis to Build Data-rich Apps with MIT App Inventor	Fred Martin, Samantha Michalka, Harry Zhu and Jere Boudell
				607	Workshop 106: An Introduction to the Weka Data Mining System	Ingrid Russell and Zdravko Markov
				612	Workshop 107: What's New in BlueJ 4: Git, Stride and more	Neil C. C. Brown and Amjad Altadmri
				603	Workshop 108: Micro Projects: Putting Light and Magic into Learning Computer Systems Concepts	Edwin Franklin Barry
				604	Workshop 109: Teaching Distributed Computing with WorkQueue	Aaron Dingler and Peter Bui
				602	Workshop 110: Peer Instruction in Practice	Cynthia Taylor, Joe Hummel, David Hovemeyer, David Bunde, John Dooley and Jaime Spacco
Thursday March 9th, 2017						
Thu March 9th 8:30-10:00am	Keynote			6E	Embracing Uncertainty	Jeanette Wing (Microsoft Research)
Thu March 9th 10-11:30am	NSF Showcase #1			4A	EDURange: an easy-to-use framework for cybersecurity education	Jens Mache (Lewis and Clark College), Richard Weiss (Evergreen State College) and Michael Locasto (University of Calgary)
					A New Tool for Guiding Faculty in Customizing Database Visualizations for Learners of Many Majors	Suzanne W. Dietrich (Arizona State University) and Don Goelman (Villanova University)
					Software Tutors for Introductory Programming: Epplets, Codelets and Problets	Amruth N. Kumar (Ramapo College of New Jersey)
					Computing in the Arts: Community Building and Curriculum Development	Jennifer Burg (Wake Forest University)
Thu March 9th 10-10:45am	Demo Session #1			4A	The Micro:bit: Hands-on Computing for the New Generation	Thomas Ball (Microsoft Research); Judith Bishop (University of Stellenbosch); Jonathan De Halleux (Micro
					Elegit: Git Learning Tool for Students	Eric Walker (Carleton College); Julia Connelly (Carleton College); David Musicant (Carleton College)
Thu March 9th 10:45am - noon Papers start @ 10:45am, 11:10am, 11:35am	K-12 / Novice Learners	Computational Thinking	Paper chaired by Marie Bienkowski (SRI International)	611	Assessing Children's Understanding of the Work of Computer Scientists: The Draw-a-Computer-Scientist Test	Alexandria K. Hansen, Hilary A. Dwyer, Ashley Iveland, Mia Talesfore, Lacy Wright, Danielle B. Harlow and Diana Franklin
					Assessing Computational Thinking in CS Unplugged Activities	Brandon Rodriguez, Stephen Kennicutt, Cyndi Rader and Tracy Camp
					Recommendations for Designing CS Resource Sharing Sites for All Teachers	Mackenzie Leake and Colleen M. Lewis
	Diversity	Robots & Wearables	Paper chaired by Kathi Fisler (WPI)	612	Making Robot Challenges with Virtual Robots	Kevin J. Gucwa and Harry H. Cheng
					A Modern Wearable Devices Course for Computer Science Undergraduates	Chris Gregg, Raewyn Duvall and Kate Wasynczuk
					Computer Science Outreach with End-User Robot-Programming Tools	Vivek Paramasivam, Justin Huang, Sarah Elliott and Maya Cakmak
	CS1	Novice Learners	Paper chaired by Luther Tychonievich (University of Virginia)	613/614	Measuring Student Learning in Introductory Block-Based Programming: Examining Misconceptions of Loops, Variables, and Boolean Logic	Shuchi Grover and Satabdi Basu
					Variable Evaluation: an Exploration of Novice Programmers' Understanding and Common Misconceptions	Tobias Kohn
					Semantic Reasoning in Young Programmers	David S. Touretzky, Christina Gardner-McCune and Ashish Aggarwal
	Advanced Topics	Data	Paper chaired by Sharon Hsiao (Arizona State University)	608	Teaching Big Data and Cloud Computing with a Physical Cluster	Jesse Eickholt and Sharad Shrestha
					Using Programming Process Data to Detect Differences in Students' Patterns of Programming	Adam Scott Carter and Christopher David Hundhausen
					Introducing Data Science to School Kids	Shashank Srikant and Varun Aggarwal
	Learning / Instructional styles	Analytics	Paper chaired by David Levine (Saint Bonaventure University)	609	*Deconstructing the Discussion Forum: Student Questions and Computer Science Learning*	*Mickey Vellukunnel, Philip Buffum, Kristy Elizabeth Boyer, Jeffrey Forbes, Sarah Heckman and Ketan Mayer-Patel*
					Exposed! CS Faculty Caught Lecturing in Public: A Survey of Instructional Practices	Scott Grissom, Sue Fitzgerald, Renée McCauley and Laurie Murphy
					Investigating Student Plagiarism Patterns and Correlations to Grades	Jonathan Pierce and Craig Zilles
	TOCE 1	Transactions on Computing Education	Paper chaired by Christopher Hundhausen (Washington State University)	615	Security Injections@Towson: Integrating Secure Coding into Introductory Computer Science Courses	Blair Taylor, Siddharth Kaza, Towson University
					Heuristic Evaluation for Novice Programming Systems	Michael Kölling, Fraser McKay, University of Kent
					Novice Java Programming Mistakes: Large-Scale Data vs. Educator Beliefs	Neil C.C. Brown, Amjad Altadmri, University of Kent
	Panel / Special Session	CS FOR ALL	Panel	6E	The Role of CS Departments in The US President's "CS for All" Initiative	Mark Guzdial, Barbara Ericson, W. Richards Adrion and Megean Garvin
		FOSS	Panel	606	Community Engagement with Free and Open Source Software	Christian Murphy, Kevin Buffardi, Josh Dehlinger, Lynn Lambert and Nanette Veilleux
		CS1	Special Session	602/603/604	CS 1: Beyond Programming	Douglas Baldwin, Valerie Barr, Amy Briggs, Jessen Havill, Bruce Maxwell and Henry M. Walker
		ED RESEARCH	Special Session	607	CS Education Research Knowledge Forum	Kelsey Finkel, Kenneth E. Graves and Leigh Ann DeLyser

Day / Time	Theme	Topic	Track	Room	Title	Authors
	Vocaerum Supporter Session			616-617	**Assessment strategies for large CS classes**	Christine Alvarado, University of California, San Diego; Sanjay Srivastava, Vocareum
	Intel Supporter Session			618-619	**Learn How Intel Can Help Your Students Gain Expertise in Parallel Programming**	Mark Lubin, Intel Corporation
Thu March 9th 12-1:45pm	First Timers' Lunch Keynote			6B	**The Educator Identity and its Impact**	Mats Daniels (Uppsala University)
Thu March 9th 1:45pm - 3pm **Papers start @ 1:45pm, 2:10pm, 2:35pm**	**K-12 / Novice Learners**	K-12 Professional Development	Paper chaired by Colleen Lewis (Harvey Mudd College)	611	**Reflecting on Three Offerings of a Community-Centric MOOC for K-6 Computer Science Teachers**	Katrina Falkner, Rebecca Vivian, Nickolas Falkner and Sally-Ann Williams
					Preparing STEM Teachers to offer New Mexico Computer Science for All	*Irene A. Lee, Maureen Psaila Dombrowski and Ed Angel*
					A Comparative Analysis of Online and Face-to-Face Professional Development Models for CS Education	David C. Webb, Hilarie Nickerson and Jeffrey B. Bush
	Diversity	Making	Paper chaired by Jian Zhang (Texas Woman's University)	612	**Toward Computational Making with Madeup**	Chris Johnson
					Understanding High School Students' Reading, Remixing, and Writing Codeable Circuits for Electronic Textiles	Breanne K. Litts, Yasmin B. Kafai, Debora Lui, Justice Walker and Sari Widman
					Creating Cool Stuff - Pupils' Experience of the BBC micro:bit	Sue Sentance, Jane Waite, Steve Hodges, Emily MacLeod and Lucy Yeomans
	CS1	Addressing Motivation	Paper chaired by Jody Paul (Metropolitan State University of Denver)	613/614	**Gamifying Course Modules for Entry Level Students**	Yin Pan, Sumita Mishra and David Schwartz
					Improving Students' Learning and Achievement in CS Classrooms through Computational Creativity Exercises that Integrate Computational and Creative Thinking	*Duane F. Shell, Leen-Kiat Soh, Abraham E. Flanigan, Markeya S. Peteranetz and Elizabeth Ingraham*
					Getting Students to Earnestly Do Reading, Studying, and Homework in an Introductory Programming Class	Alex Edgcomb, Frank Vahid, Roman Lysecky and Susan Lysecky
	Advanced Topics	Architecture	Paper chaired by S. Monisha Pulimood (The College of New Jersey)	608	**Impact of Prior Exposure to the PLP Instruction Set Architecture in a Computer Architecture Course**	Sohum Sohoni, Scotty D. Craig and Shaowen Lu
					A Collaborative Approach to Teaching Software Architecture	Arie Van Deursen, Maurício Aniche, Joop Aué, Rogier Slag, Michael De Jong, Alex Nederlof and Eric Bouwers
					MIPSUnit: A Unit Testing Framework for MIPS Assembly	Zachary Kurmas
	Learning / Instructional styles	Performance Analytics	Paper chaired by Don Blaheta (Longwood University)	609	**Using Learning Analytics to Investigate Patterns of Performance and Engagement in Large Classes**	Hassan Khosravi and Kendra Cooper
					Automatically Classifying Students in Need of Support by Detecting Changes in Programming Behaviour	Anthony Estey, Hieke Keuning and Yvonne Coady
					Evaluating Neural Networks as a Method for Identifying Students in Need of Assistance	*Karo Castro-Wunsch, Alireza Ahadi and Andrew Petersen*
	TOCE 2	Transactions on Computing Education	Paper chaired by Christopher Hundhausen (Washington State University)	615	**EarSketch: A STEAM-based Approach for Underrepresented Populations in High School Computer Science Education**	Brian Magerko, Jason Freeman, Georgia Institute of Technology, Tom Mcklin, Sagefox Consulting Group LLC, Mike Reilly, Lanier High School, Elise Livingston, Microsoft, Scott Mccoid, Ableton Inc., Andrea Crews-Brown, Sagefox Consulting Group LLC
					Undergraduate Students' Perceptions of the Impact of Pre-college Computing Activities on Choices of Major	Monica McGill, Bradley University, Adrienne Decker, Rochester Institute of Technology, Amber Settle, DePaul University
					Early Break	
	Panel / Special Session	GENDER	Panel	6E	**Increasing Diversity in the Face of Enrollment Increases**	Wendy DuBow, Ignatios Vakalis, Laura Dillon and Helen Hu
		CS FOR ALL	Panel	602/603/604	**Building CS Teaching Capacity: Comparing Strategies for Achieving Large Scale Impact**	Kimberly Hughes, Carol L. Fletcher, Leigh Ann DeLyser and Anthoy Owen
		ACCESSIBILITY	Special Session	606	**Teaching Accessibility**	Richard Ladner and Matt May
		INDUSTRY	Special Session	607	**Holistic Development of Underrepresented Students through Academic – Industry Partnerships**	Legand Burge, Marlon Mejias, KaMar Galloway, Kinnis Gosha and Jean Muhammad
	IBM Supporter Session			616-617	**z Systems - the Path to Opportunity**	Misty V. Decker (IBM z Systems Academic Initiative Program Manager)
	Intel Supporter Session			618-619	**A deep hands-on experience on Parallel Programming Techniques and industry best practices**	Mark Lubin, Intel Corporation
Thu March 9th 1:45 - 5pm	ACM Student Research Competition Posters			4A (Grads)	**Neo-Piagetian Classification of Reasoning Ability and Mental Simulation in Microsoft's Kodu Game Lab**	Ashish Aggarwal (University of Florida)
					Managing the Internet of Things	Ben Romano (The University of Alabama)
					Sniffing Through Millions of Blocks for Bad Smells	Peeratham Techapalokul (Virginia Tech)
					Scaling Up Automated Verification: A Case Study and Formal-IDE for the Construction of High Integrity Software	Daniel Welch (Clemson University)
				4A (Undergrads)	**The Application of the 2D Structure Tensor in Visual Arts and Design**	Alec Battles (Texas Woman's University); Jian Zhang (Texas Woman's University)
					The Urban Archivist Application: Urban Archivist	James Belford (St Martins University)
					Tapping-based Authentication for Mobile Device Security	Lukasz Brodowski (Central Connecticut State University); Cameron Dziurgot (Central Connecticut State University); Donald Moretz (Central Connecticut State University)
					Mixed-initiative Personal Assistants	Joshua Buck (University of Dayton); Saverio Perugini (University of Dayton)
					Time Lord: Covert Timing Channel Implementation and Realistic Experimentation	Eduardo Castillo (Wofford College); Xiangyang Li (Johns Hopkins University); Xenia Mountrouidou (College of Charleston)
					ORCA: A Proof Assistant for Undergraduate Education	Jianting Chen (Grinnell College); Medha Gopalaswamy (Grinnell College); Prabir Pradhan (Grinnell College); Sooji Son (Grinnell College); Peter-Michael Osera (Grinnell College)
					Raising Flags: Detecting Covert Storage Channels Using Relative Entropy	Josephine Chow (University of Maryland, College Park); Xiangyang Li (Johns Hopkins University); Xenia Mountrouidou (College of Charleston)
					Identifying and Exploiting Vulnerabilities in Civilian Unmanned Aerial Vehicle Systems and Evaluating and Countering Potential Threats Against the United States Airspace	Philip Costello (Randolph-Macon College)
					Quadrilateral Mesh Generation with a Provably Good Aspect Ratio Bound	Christopher Gillespie (Rutgers University, Camden, NJ (student))
					Applying Machine Learning to Predict Davidson College's Admissions Yield	Joseph Jamison (Davidson College)
					Optimizing Kinect® Depth Sensing Using Dynamic Polarization	Jakub Jancek (Benedictine University); Darya Aleinikava (Benedictine University); Grace Mirsky (Benedictine University)
					One Size Doesn't Fit All	Zane Johnston (Kennesaw State University)
					Recursive Convergence	Amy MacDonough (Haverford College)
					Creative Computing and Society: When Undergraduates Design a Curriculum for an Introductory Computing Course	Sierra Magnotta (Bucknell University); Anushikha Sharma (Bucknell University); Jingya Wu (Bucknell University); Darakhshan Mir (Bucknell University)
					Digitalizing Paper-Based Exams: An Assessment of Programming Grading Assistant	Hannah Murphy (Arizona State University)
					A Pathway to Strengthening Support for Beauty and Joy of Computing Teachers	Meghana Subramaniam (North Carolina State University); Veronica Catete (North Carolina State University)
					Teacher Configurable Coding Challenges for Block Languages	Nath Tumlin (University of Alabama)
					Improving SAT-solving with Machine Learning	Haoze Wu (Davidson College); Raghuram Ramanujan (Davidson College)
					Quadrilateral Mesh Boundary Classification and Editing	Ziyan Yang (Bryn Mawr College)
					Using Scratch and Female Role Models while Storytelling Improves Fifth-Grade Students' Attitudes toward Computing	Raza Zaidi (DePauw University); Isabel Freihofer (DePauw University); Gloria Townsend (DePauw University)

Day / Time	Theme	Topic	Track	Room	Title	Authors
Thu March 9th 3-4:30pm	NSF Showcase #2			4A	CyberPaths: Broadening the Path to STEM Professions through Cybersecurity Learning	Xenia Mountrouidou (College of Charleston) and Xiang-Yang Li (Illinois Institute of Technology)
					CS Principle Ebooks for Teachers and Students building on Educational Psychology Principles	Barbara Ericson (Georgia Tech), Mark Guzdial (Georgia Tech) and Miranda Parker (Georgia Tech)
					Activity-Based Logical Code Reasoning	Michelle Cook (Clemson University), Jason O. Hallstrom (Clemson University), Joseph E. Hollingsworth (Clemson University) and Murali Sitaraman (Clemson University)
					Design Challenges and Stories: Integrating Reflective Design Learning in Computer Science	John Georgas (Northern Arizona University)
Thu March 9th 3-3:45pm	Demo Session #2			4A	BlockPy Interactive Demo: Dual Text/Block Python Programming Environment for Guided Practice and Data Science	Austin Bart (Virginia Tech); Dennis Kafura (Virginia Tech)
					Writing Autograders for Snap! And Integrating them Into Your Course	Michael Ball (UC Berkeley)
Thu March 9th 3:45pm - 5pm Papers start @ 3:45pm, 4:10pm, 4:35pm	K-12 / Novice Learners	CS for All	Paper chaired by Leigh Ann DeLyser (NYC Foundation for CS Education)	611	Pre-College Computing Outreach Research: Towards Improving the Practice	Adrienne Decker and Monica M. McGill
					Visions of Computer Science Education: Unpacking Arguments for and Projected Impacts of CS4All Initiatives	Sara Vogel, Rafi Santo and Dixie Ching
					Defining a Discipline or Shaping a Community: Constraints on Broadening Participation in Computing	Joanna Weidler-Lewis, Wendy DuBow and Alexis Kaminsky
	Diversity	Blocks Programming	Paper chaired by Samuel A. Rebelsky (Grinnell College)	612	From Blocks to Text and Back: Programming Patterns in a Dual-Modality Environment	David Weintrop and Nathan Holbert
					A Visual Programming Environment for Learning Distributed Programming	Brian Broll, Melvin Lu, Akos Ledeczi, Peter Volgyesi, Janos Sallai, Miklos Maroti, Alexia Carrillo, Stephanie L. Weeden-Wright, Chris Vanags and Joshua D. Swartz
					Using Upper-Elementary Student Performance to Understand Conceptual Sequencing in a Blocks-based Curriculum	Diana Franklin, Gabriela Skifstad, Reiny Rolock, Isha Mehrotra, Valerie Ding, Alexandria Hansen, David Weintrop and Danielle Harlow
	CS1	Collaborative Exams	Paper chaired by Elizabeth Hawthorne (Union County College)	613/614	*Evaluating Student Learning from Collaborative Group Tests in Introductory Computing*	*Yingjun Cao and Leo Porter*
					In-Lab Programming Tests in a Data Structures Course in C for Non-Specialists	Edwin M. Knorr and Christopher Thompson
					Interactions of Individual and Pair Programmers with an Intelligent Tutoring System for Computer Science	*Rachel Harsley, Davide Fossati, Barbara Di Eugenio and Nick Green*
	Advanced Topics	Beginning Cybersecurity	Paper chaired by Jan Vahrenhold (Westfälische Wilhelms-Universität Münster)	608	Cybersecurity for Future Presidents: An Interdisciplinary Non-majors Course	Aparna Das, David Voorhees, Cynthia Choi and Carl Landwehr
					Scenario-Based Inquiry for Engagement in General Education Computing	David Kerven, Kristine Nagel, Stella Smith, Sherly Abraham and Laura Young
					Capture the Flag Unplugged: an Offline Cyber Competition	Vitaly Ford, Ambareen Siraj, Ada Haynes and Eric Brown
	Learning / Instructional styles	Feedback	Paper chaired by Robert McCartney (University of Connecticut)	609	*Generating Hints and Feedback for Hilbert-style Axiomatic Proofs*	*Josje Lodder, Bastiaan Heeren and Johan Jeuring*
					A Curriculum Model Featuring Oral Communication Instruction and Practice	Karen Anewalt and Jennifer Polack
					Do Enhanced Compiler Error Messages Help Students? Results Inconclusive.	Raymond S. Pettit, John Homer and Roger Gee
	TOCE 3	Transactions on Computing Education	Paper chaired by Christopher Hundhausen (Washington State University)	615	Seeing Myself Through Someone Else's Eyes: The Value of In-Classroom Coaching for Computer Science Teaching and Learning	Jane Margolis, UCLA, Joanna Goode, University of Oregon, Jean J. Ryoo, Exploratorium, David Bernier, UCLA
					A Meta-Analysis of Pair-Programming in Computer Programming Courses: Implications for Educational Practice	Karthikeyan Umapathy, University of North Florida, Albert D. Ritzhaupt, University of Florida
					Early Break	
	Panel / Special Session	BPC	Special Session	6E	Broadening Participation in Computer Science: Key Strategies from International Findings	Rebecca Vivian, Katrina Falkner and Claudia Szabo
		CSP	Panel	602/603/604	Teaching the Global Impact of Computing	Jeff Gray, Jennifer Rosato, Bradley Beth and Nigamanth Sridhar
		UNDERGRAD RESEARCH	Panel	606	Bringing Undergraduate Research Experience in Non-R1 Institutions	Farzana Rahman, Helen Hu, Dennis Brylow and Clif Kussmaul
		ARTS	Special Session	607	Computing in the Arts: Curricular Innovations and Results	Renée McCauley, Bill Manaris, David Heise, Cate Sheller, Jennifer Jolley and Alan Zaring
	Zybooks Supporter Session			616-617	The Power of Integrated Learning for CS -- Teach Concepts, not Logins	Smita Bakshi (CEO/Co-Founder, Zybooks), Frank Vahid (Co-Founder, Zybooks and University of California, Riverside), Roman Lysecky (Authoring Co-Lead, Zybooks and University of Arizona), Scott Sirowy (Director of Engineering, Zybooks), and Alex Edgcomb (Sr. Software Engineer/Research Specialist, Zybooks and University of California, Riverside)
	Google Supporter Session			618-619	New Tools and Solutions to Address the CS Capacity Crunch	Chris Stephenson (Google), Jeff Offutt (George Mason University), Jeff Forbes (Duke University), Kristy Boyer (University of Florida), Heather Pon-Barry (Mount Holyoke), and Josh Hug (University of California Berkeley)
Thu March 9th 5:30pm - 6:20pm	Birds of a Feather Flock #1			612	SIGCSE Reads: Time for Book Discussion	Rebecca Bates (Minnesota State University, Mankato); Valerie Summet (Rollins University); Nanette Veilleux (Simmons College)
				205	Teaching and Learning Under Pressure: Intensive (Accelerated, Block) Computer Science Courses	Janet Burge (Colorado College); Bo Brinkman (Miami University)
				616-617	Advancing Data Science for Students of All Majors	Lillian Cassel (Villanova University); Don Goelman (Villanova University); Darina Dicheva (Winston Salem State University); Heikki Topi (Bentley University); Michael Posner (Villanova University)
				609	Communicating What Liberal Arts Colleges Contribute to Computer Science	Janet Davis (Whitman College); Angela Berardinelli (Mercyhurst University); Amanda Holland-Minkley (Washington & Jefferson College); Ellen Walker (Hiram College)
				201	Sustainable Methods for Impactful Service Learning in Computer Science	Nate Derbinsky (Wentworth Institute of Technology); Durga Suresh (Wentworth Institute of Technology)
				615	Practical Systems Programming in Computer Science Education	Peter Froehlich (Johns Hopkins University); Borja Sotomayor (University of Chicago)
				310	Process Oriented Guided Inquiry Learning (POGIL) in the CS Classroom	Saturnino Garcia (University of San Diego)
				203	Computer Science Curricular Guidelines for Associate-Degree Transfer Programs	Elizabeth Hawthorne (Union County College); Cara Tang (Portland Community College); Cindy Tucker (Bluegrass Community and Technical College); Christian Servin (El Paso Community College)
				606	Handling Very Large Lecture Courses: Keeping the Wheels on the Bus III	Josh Hug (UC Berkeley); Cynthia Lee (Stanford)
				608	Weaving Diversity and Inclusion into CS Content	Justin Li (Occidental College)
				204	Using Tangible Manipulatives for Hands-on Activities in Undergraduate Computer Science Classes	Stephanie Ludi (University of North Texas); Stan Kurkovsky (Central Connecticut State University)
				607	GitHub, Tutors, Relatives, and Friends: The Wide Web of Plagiarism	Amardeep Kahlon (Austin Community College); Bonnie MacKellar (St. John's University); Anastasia Kurdia (Tulane University)
				611	High School CS Teacher Certification: Standards, Assessments, and Professional Development	Wesley Monroe (The University of Texas); Carol Fletcher (UT Austin Center for STEM Ed)
				211	Perspectives on Teaching Humanitarian Free and Open Source Software	Becka Morgan (Western Oregon University); Heidi Ellis (Western New England University); Gregory Hislop (Drexel University); Grant Braught (Dickinson College); Lori Postner (Nassau Community College)
				602-604	CSTA K-12 CS Standards for All	Deborah Seehorn (CSTA); Lissa Clayborn (CSTA)
				620	Strengthening Informal CS Education Program Delivery through Evaluation Capacity Building	Juliet Tiffany-Morales (Google); Kathy Haynie (Haynie Research and Evaluation); Karen Peterson (National Girls Collaborative Project); Jason Ravitz (Google)
				618-619	A Town Meeting: SIGCSE Committee on Expanding the Women-in-Computing Community	Gloria Townsend (DePauw University)
				613-614	Researching the K-12 Computer Science Framework	Pat Yongpradit (Code.org)

Day / Time	Theme	Topic	Track	Room	Title	Authors
Thu March 9th 6:30pm - 7:20pm	Birds of a Feather Flock #2			612	The ACM Code of Ethics and Professional Conduct: Teaching Strategies and the Coming Update	Bo Brinkman (Miami University); Karla Carter (Bellevue University)
				607	The Power of Analogies in Introductory CS Education	Yingjun Cao (University of California - San Diego); Scott Anderson (Wellesley College)
				203	Evaluating the Long-Term Impact of Pre-college Computing Activities	Adrienne Decker (Rochester Institute of Technology); Monica McGill (Bradley University); Alan Peterfreund (Sage Fox Group)
				620	Alternative Publishing and Dissemination of CS Education Research	Nickolas Falkner (The University of Adelaide); Elizabeth Patitsas (University of Toronto); Colleen Lewis (Harvey Mudd College)
				204	Strategies for Including Soft Skills and Interdisciplinary Content in CS Education	Amanda Holland-Minkley (Washington & Jefferson College); Thomas Lombardi (University of the Virgin Islands); Madeline Smith (Colgate University)
				211	Competency-Based Education in Lower-Division Computer Science Taught at Community Colleges	Amardeep Kahlon (Austin Community College); Mary Kohls (Austin Community College); Linda Smarzik (lsmarzik@austincc.edu)
				611	Access to Computing Education for Students with Disabilities	Richard Ladner (University of Washington); Andreas Stefik (University of Nevada, Las Vegas); Daniela Marghitu (Auburn University)
				201	Surviving “Open-ended Projects” in Project-Based Learning: A Teacher's Perspective	Tina Ostrander (Green River College); Karen Jin (University of New Hampshire); Ruby Elkharboutly (Quinnipiac University)
				205	Improving Effectiveness of CS Teacher Professional Development	Karen Parker (Google); Sloan Davis (Google); Chris Stephenson (Google); Jason Ravitz (Google)
				615	Collaborative research into Game Jams, Hackathons and Event-Based Teaching in Higher Education	Ian Pollock (California State University East Bay)
				310	Sharing and Using Programming Log Data	Thomas Price (North Carolina State University); Neil Brown (University of Kent); Chris Piech (Stanford University); Kelly Rivers (Carnegie Mellon University)
				613-614	Can we really do it? - Conducting Significant Computer Science Research in Primarily Undergraduate Institutions (PUIs)	Farzana Rahman (James Madison University); Suzanne Matthews (United States Military Academy); Andrea Danyluk (Williams College); Kelly Shaw (University of Richmond)
				602-604	An IoT BOF	Michael Rogers (Northwest Missouri State University); Bill Siever (Washington University in St. Louis)
				616-617	CS4What? A Game-based Discussion about the Purposes of Universal Computer Science Education	Rafi Santo (Indiana University); David Phelps (University of Washington)
				606	Teaching Track Faculty in CS	Mark Sherriff (University of Virginia); Chris Gregg (Stanford University); Shawn Lupoli (University of Maryland - Baltimore County)
				618-619	Mapping Alice Curriculum to Standards: A BOF for the Alice Community	Donald Slater (Carnegie Mellon University); Eric Brown (Carnegie Mellon University); Wanda Dann (Carnegie Mellon University)
				608	Forming Strong and Effective Student Teams	Anya Tafliovich (University of Toronto Scarborough); Jennifer Campbell (University of Toronto); Francisco Estrada (University of Toronto Scarborough); Daniel Zingaro (University of Toronto at Mississauga)
				609	Building and Supporting a Community of CS Educators Teaching Cybersecurity in 2017	Richard Weiss (The Evergreen State College); Ambareen Siraj (Tennessee Tech University); Jens Mache (Lewis & Clark College); Elizabeth Hawthorne (Union County College); Blair Taylor (Towson University); Siddharth Kaza (Towson University); Michael Locasto (SRI International)
Friday March 10th, 2017						
Fri March 10th 7-8:30am	Mid-Symposium Event			6B	Breakfast with BlueJ and Greenfoot – Introducing Greenfoot 3, BlueJ 4, and Stride	Michael Kölling, Amjad Altadmri, Neil Brown and Ian Utting
Fri March 10th 8:30-10:00am	Keynote			6E	Inspire, Innovate, Improve! What does this mean for CS for All?	Gail Chapman (Exploring Computer Science)
Fri March 10th 10-11:30am	NSF Showcase #3			4A	Information Assurance and Security Education on Portable Labs	Dan Lo (Kennesaw State University)
					Increasing Student Interest in Data Structures Courses with Real-World Data and Visualizations Using BRIDGES	Kalpathi Subramanian (UNC Charlotte), Jamie Payton (UNC Charlotte), Michael Youngblood (UNC Charlotte), Robert Kosara (UNC Charlotte), Paula Goolkasian (UNC Charlotte), David Burlinson (UNC Charlotte), Mihai Mehedint (UNC Charlotte), Dakota Carmer (UNC Charlotte)
					Automated Laboratory Generation for Yakama Nation Students	Brent Lagesse (University of Washington)
					On Beyond Sudoku: Pencil Puzzles for Introductory Computer Science	Zack Butler (Rochester Institute of Technology), and Ivona Bezakova (Rochester Institute of Technology)
Fri March 10th 10-10:45am	Demo Session #3			4A	Distributed Programming with NetsBlox is a Snap!	Brian Broll (Vanderbilt University); Akos Ledeczi (Vanderbilt University)
					Submitty: An Open Source, Highly-Configurable Platform for Grading of Programming Assignments	Matthew Peveler (Rennselaer Polytechnic Institute); Jeramey Tyler (Rennselaer Polytechnic Institute); Samuel Breese (Rennselaer Polytechnic Institute); Barbara Cutler (Rennselaer Polytechnic Institute); Ana Milanova (Rennselaer Polytechnic Institute)
Fri March 10th 10-noon	Poster Session #1			4A	Building Tools, Gathering Data: Precursors for Assessing Students' Programming Process	Carl Alphonce (University at Buffalo); Jacob Condello (University at Buffalo); Bina Ramamurthy (University at Buffalo); Simran Singh (University at Buffalo)
					Using Static Analysis for Automated Assignment Grading in Introductory Programming Classes	Samuel Breese (Rensselaer Polytechnic Institute); Ana Milanova (Rensselaer Polytechnic Institute); Barbara Cutler (Rensselaer Polytechnic Institute)
					CS for SC: A Landscape Report of K-12 Computer Science in South Carolina	Quinn Burke (College of Charleston); Madeleine Schep (Columbia College); Travis Dalton (Columbia College)
					Analysis of Associations between Motivation and Previous Computer Science Experience, Gender, Ethnicity and Privilege as Observed in a Large Scale Survey of Middle School Students	Jeffrey Bush (University of Colorado); Susan Miller (University of Colorado)
					Investigating the Impact of Unsolicited Next-Step and Subgoal Hints on Dropout in a Logic Proof Tutor	Christa Cody (North Carolina State University); Behrooz Mostafavi (North Carolina State University)
					ThoTh Lab: A Personalized Learning Framework for CS Hands-on Projects	Yuli Deng (Arizona State University); Dijiang Huang (Arizona State University); Chun-Jen Chung (Athena Network Solutions)
					Can We Conduct A Social Construction Based Epistemology for CS1 and CS2 Students?	Brennen Frisque (University of Wisconsin-Green Bay); Ankur Chattopadhyay (University of Wisconsin - Green Bay)
					Broadening Participation Research Project: Exploring Computing Careers through a Virtual Career Exploration Fair Using Embodied Conversational Agents	Kinnis Gosha (Morehouse College); Kamal Middlebrook (Morehouse College)
					A Final Project Report on CS4Alabama: A Statewide Professional Development Initiative for CS Principles	Kathleen Haynie (Haynie Research and Evaluation); Jeff Gray (University of Alabama); Sheryl Packman (Gator Analytics); Carol Crawford (A+ College Ready); Mary Boehm (A+ College Ready); Jonathan Corley (University of West Georgia)
					Progsnap: Sharing Programming Snapshots for Research	David Hovemeyer (York College of Pennsylvania); Arto Hellas (University of Helsinki); Andrew Petersen (University of Toronto, Mississauga); Jaime Spacco (Knox College)
					Learning and Identity in YWIC- An Analysis of Program Implementation and Design as Promoting Agency in Computing	Sarah Hug (Colorado Evaluation & Research Consulting); Enrico Pontelli (New Mexico State University); Raena Cota (New Mexico State University); Suzanne Eyerman (Colorado Evaluation & Research Consulting)

Day / Time	Theme	Topic	Track	Room	Title	Authors
					What Should Cybersecurity Students Learn in School? Results from Interviews with Cyber Professionals	Keith Jones (Texas Tech University); Akbar Siami-Namin (Texas Tech University); Miriam Armstrong (Texas Tech University)
					Agile Development in Project-based Curriculum at Scale for Middle and High School Girls	Sarah Judd (Girls Who Code); Megan Sullivan (Girls Who Code); Jeff Stern (Girls Who Code)
					CS1: Computation & Cognition – An Evidence-Based Course to Broaden Participation	Clifton Kussmaul (Muhlenberg College)
					Should Your College Computer Science Program Partner with a Coding Boot Camp?	Louise Ann Lyon (ETR); Quinn Burke (College of Charleston); Jill Denner (ETR); James Bowring (College of Charleston)
					Examining PhD Student Interest in Teaching: An Analysis of 19 Years of Historical Data	Travis Mandel (University of Washington); Jens Mache (Lewis & Clark College)
					Using Professional Development to Move Toward a Guided Discovery Approach in the Classroom	Susan Miller (University of Colorado)
					CodeBox64: A Tactile Input Modality for Block Programming	Max Paulk (Kennesaw State University); Amber Wagner (Kennesaw State University)
					Cracking the Code: Bringing Introductory Computer Science to a Charleston Middle School	Clare Rumsey (College of Charleston); Quinn Burke (College of Charleston); Christopher Thurman (Charleston, SC School District)
					Coding for All: Computer Science Outreach for All Ages and Budgets	Jennifer Sabourin (SAS Institute); Lucy Kosturko (SAS Institute); Scott Mcquiggan (SAS Institute)
					Cyber Crime Investigators: Pathways from High School to Cybersecurity Careers for First Generation College-Bound Students	Nicole Simon (City University of NY - John Jay College of Criminal Justice); Megan Banford (City University of NY - John Jay College of Criminal Justice)
					Motivating K-12 Students Toward Computer Science, and Computer Science Students Toward Teaching	Peter Tucker (Whitworth University); Robert Bryant (Gonzaga University)
					A Game-Driven Approach to Teaching Bit Manipulation	Paul Voelker (University of Wisconsin-Eau Claire); Chris Johnson (University of Wisconsin-Eau Claire)
					Enhancing Cybersecurity Education Using POGIL	Xiaohong Yuan (North Carolina A & T State University); Li Yang (The University of Tennessee at Chattanooga); Wu He (Old Dominion University); Jennifer Ellis (The University of Tennessee at Chattanooga); Jinsheng Xu (North Carolina A & T State University); Cynthia Waters (North Carolina A & T State University)
Fri March 10th 10:45am - noon **Papers start @ 10:45am, 11:10am, 11:35am**	**K-12 / Novice Learners**	K-8	Paper chaired by Paul Tymann (RIT)	611	**A Literature Review through the Lens of Computer Science Learning Goals Theorized and Explored in Research**	Kathryn Rich, Carla Strickland and Diana Franklin
					Evaluating the Effect of Using Physical Manipulatives to Foster Computational Thinking in Elementary School	Ashish Aggarwal, Christina Gardner-McCune and David S. Touretzky
					Arts Coding for Social Good: A Pilot Project for Middle-School Outreach	Anita DeWitt, Lukas Resch, Jovan Martinez Saldaña, Soulideth Sounalath, Kathryn Yetter, Elizabeth Zak, Narren Brown, Samuel A. Rebelsky, Julia Fay, Madeleine Goldman, Eleanor Nicolson, Linda Oyolu and Tyler Williams
	Diversity	Novice Programmers	Paper chaired by Christine Alvarado (UC San Diego)	612	**Just the Numbers: An Investigation of Contextualization of Problems for Novice Programmers**	Ellie Lovellette, John Matta, Dennis Bouvier and Roger Frye
					An Empirical Study of Debugging Patterns Among Novices Programmers	Basma S. Alqadi and Jonathan I. Maletic
					iSnap: Towards Intelligent Tutoring in Novice Programming Environments	*Thomas W. Price, Yihuan Dong and Dragan Lipovac*
	CS1	Collaborative Learning	Paper chaired by Henry Walker (Grinnell College)	613/614	**POGIL Activities in Data Structures: What do Students Value?**	Tammy VanDeGrift
					Student Perspectives of Team-Based Learning in a CS Course: Summary of Qualitative Findings	*Michael S. Kirkpatrick*
					Exploring the Pair Programming Process: Characteristics of Effective Collaboration	*Fernando J. Rodríguez, Kimberly Michelle Price and Kristy Elizabeth Boyer*
	Advanced Topics	Software Engineering	Paper chaired by Eric Aaron (Vassar College)	608	**Innovative Pedagogical Approaches to a Capstone Laboratory Course in Cyber Operations**	Mike O'Leary
					A Study of the Use of a Reflective Activity to Improve Students' Software Design Capabilities	John W. Coffey
					Incorporating Human Error Education into Software Engineering Courses via Error-based Inspections	*Vaibhav Anu, Gursimran Walia and Gary Bradshaw*
	Learning / Instructional styles	Mobile	Paper chaired by Jaime Spacco (Knox College)	609	**SAFE: Smart Authenticated Fast Exams for Student Evaluation in Classrooms**	Kameswari Chebrolu, Bhaskaran Raman, Vinay Chandra Dommeti, Akshay Veer Boddu, Kurien Zacharia, Arun Babu and Prateek Chandan
					Choosing Face-to-face or Video-based Instruction in a Mobile App Development Course	Matthew Boutell
					Creating Engaging Exercises With Mobile Response System (MRS)	Debzani Deb, Mohammad Muztaba Fuad and Mallek Kanan
	Panel / Special Session	POGIL	Special Session	6E	**Converting Your Teaching (or Even Your Whole Department!) to Active Learning via POGIL**	Helen H. Hu, Chris Mayfield and Janice L. Pearce
		K-12 VOLUNTEERS	Panel	602/603/604	**Volunteer Best Practices for K12 CS**	Leigh Ann Delyser, NYC Foundation for CS Education; Tom O'Connell, Code Interactive; Rebecca Novak, ScriptEd; Kevin Wang, TEALS / Microsoft Philanthropies; Diane Levitt, Cornell Tech
		SEMINAR COURSES	Panel	606	**Computer Science Topics in First- and Second- Year Seminar Courses**	Valerie Barr, Bryan Catron, Christopher Healy, Kate Lockwood, Anil M. Shende, Andrea Tartaro and Kevin Treu
		LIBERAL ARTS	Special Session	607	**Computing Education in Liberal Arts Colleges: A Status Report of the SIGCSE Committee**	Doug Baldwin, Grant Braught and Amanda Holland-Minkley
	Microsoft Supporter Session			616-617	**Dos and Don'ts of Partnering Software Professionals and Computer Science Classrooms and Why It Matters To You**	Brett Wortzman (Instruction and Training Manger, Microsoft TEALS) and Kasey Champion (Computer Science Curriculum Developer, Microsoft Learning)
	Google Supporter Session			618-619	**Curriculum and Interview Recommendations for Software Engineering Preparedness**	Pierre St. Juste (Google)
Fri March 10th 12-1:45pm	**Lunch (on your own)**			Out	**Lunch Break (on your own)**	
	International Lunch			Out	**International Lunch**	Paul Denny, sigcse2017-international@cs.vt.edu
	CRA Teaching Track Faculty Lunch			6B	**CRA Teaching Track Faculty Lunch**	
Fri March 10th 1:45pm - 3pm **Papers start @ 1:45pm, 2:10pm, 2:35pm**	**K-12 / Novice Learners**	AP CSP	Paper chaired by Tammy VanDeGrift (University of Portland)	611	**From Professional Development to the Classroom:Findings from CS K-12 Teachers**	Lori Pollock, Crystalla Mouza, Amanda Czik, Alexis Little, Debra Coffey and Joan Buttram
					Preparing and Supporting Industry Professionals as Volunteer High School Computer Science Co-Instructors	*Anthony Papini, Leigh Ann DeLyser, Nathaniel Granor and Kevin Wang*
					Getting Principled: Reflections on Teaching CS Principles at Two College Board University Pilots	Jeff Gray, Michele Roberts and Jonathan Corley
	Diversity	Computers and Music; Undergraduate TAs	Paper chaired by Bo brinkman (Miami University)	612	**Using Undergraduate Teaching Assistants in Small Classes**	Paul E. Dickson, Toby Dragon and Adam Lee
					Creativity in Authentic STEAM Education with EarSketch	Shelly Engelman, Brian Magerko, Tom McKlin, Morgan Miller, Doug Edwards and Jason Freeman
					Integrating Computer Science into Music Education	*John Peterson and Greg Haynes*
	CS1	CS1	Paper chaired by Joel Adams (Calvin College)	613/614	***Exam Wrappers: Not a Silver Bullet***	*Ben Stephenson, University of Calgary; Michelle Craig, Daniel Zingaro, Diane Horton, Danny Heap, Elaine Huynh, University of Toronto*
					The Code Mangler: Evaluating Coding Ability Without Writing any Code	*Nick Cheng and Brian Harrington*
					Comparing Outcomes Across Different Contexts in CS1	Bruce A. Maxwell and Stephanie R. Taylor
	Advanced Topics	Algorithms	Paper chaired by Mark Sherriff (University of Virginia)	608	***Evaluating the Effectiveness of Algorithm Analysis Visualizations***	*Mohammed F. Farghally, Kyu Han Koh, Hossameldin Shahin and Clifford A. Shaffer*
					Towards a Concept Inventory for Algorithm Analysis Topics	Mohammed F. Farghally, Kyu Han Koh, Jeremy V. Ernst and Clifford A. Shaffer
					Assessment of Introducing Algorithms with Video Lectures and Pseudocode Rhymed to a Melody	Benjamin J. Schreiber and John P. Dougherty
	Learning / Instructional	Peers & Large	Paper chaired by Judy Sheard	609	**Micro-Classes: A Structure for Improving Student Experience in Large Classes**	Christine Alvarado, Mia Minnes and Leo Porter
					Impact of Class Size on Student Evaluations for Traditional and Peer Instruction Classrooms	Soohyun Nam Liao, William G. Griswold and Leo Porter

Day / Time	Theme	Topic	Track	Room	Title	Authors
	styles	Classes	(Monash University)		My Digital Hand: A Tool for Scaling Up One-to-One Peer Teaching in Support of Computer Science Learning	Aaron J. Smith, Kristy Elizabeth Boyer, Jeffrey Forbes, Sarah Heckman and Ketan Mayer-Patel
	Panel / Special Session	CS FOR ALL, K12 PD	Panel	6E	CSPd Week: A Scalable Model for Preparing Teachers for CS for All	Tracy Camp, Emmanuel Schanzer, Joanna Goode, Owen Astrachan and Ed Campos
		TOOLS	Panel	606	Beyond Autograding: Advances in Student Feedback Platforms	John DeNero, Sumukh Sridhara, Manuel Pérez-Quiñones, Aatish Nayak and Ben Leong
		DIVERSITY	Panel	607	Teaching To Increase Diversity and Equity in STEM	Helen H. Hu, Douglas Blank, Albert Chan and Travis Doom
		ETHICS	Special Session	602/603/604	The Code of Ethics Quiz Show	Bo Brinkman and Keith W. Miller
	IBM Supporter Session			616-617	Addressing the Cybersecurity Skills Gap	Heather (H.Y.) Ricciuto (Transformation and Academic Initiatives Leader, PMP®, IBM)
	Vocareum Supporter Session			618-619	The Next Frontier For Large Online Classes	Sanjay Srivastava (Vocareum) and David Joyner (Georgia Tech)
	Intel Supporter Session			615	Artificial Intelligence on Intel Architecture	Nagib Hakim (Intel Corporation)
Fri March 10th 3-4:30pm	NSF Showcase #4			4A	Collaborative Research: Capacity building in Cybersecurity-literacy: An inter-disciplinary approach	Shamik Sengupta (University of Nevada, Reno)
					Authentic STEAM-based Computer Science Education for Non-Majors	Brian Magerko (Georgia Tech), Tom McKlin (Georgia Tech) and Lea Ikkache (Georgia Tech)
					Puzzle-Based Learning Approach to Teaching Cyber Security Concepts	Joshua Britt (Jackson State Community College)
					Integration of Computing with Electronic Textiles to Improve Teaching and Learning of Electronics in Secondary Science	Colby Tofel-Grehl (Utah State University)
Fri March 10th 3-3:45pm	Demo Session #4			4A	Interactive Problem Solving Using Mobile Devices in the Classroom	Mohammad Fuad (Winston-Salem State University)
					The Quorum Programming Language	Andreas Stefik (University of Nevada, Las Vegas); Richard Ladner (University of Washington)
Fri March 10th 3-5pm	Poster Session #2			4A	Merging MyCS: Lessons from a District-wide Middle-school CS pilot	Samantha Andow (Harvey Mudd College); Kaitlyn Eng (Harvey Mudd College); Julia McCarthy (Claremont McKenna College); Olivia Palenscar (Scripps College); Thomas Schneider (Harvey Mudd College); Adam Schulze (Harvey Mudd College); Bryan Twarek (San Francisco Unified School District); Zachary Dodds (Harvey Mudd College)
					Implementing "In-Lab" Autograding for Snap!	Michael Ball (UC Berkeley)
					Studying Implementation of Secondary Introductory Computer Science: Pilot Results	Marie Bienkowski (SRI International); Eric Snow (SRI International)
					Measuring Learning of Code Patterns in InformalLearning Environments	Sayamindu Dasgupta (Massachusetts Institute of Technology); Benjamin Mako Hill (University of Washington)
					On the Integration of Big Data and Cloud Computing Topics	Debzani Deb (Winston-Salem State University)
					What We Say vs. What They Do: A Comparison of Middle-School Coding Camps in the CS Education Literature and Mainstream Coding Camps	Anita Dewitt (Grinnell College); Julia Fay (Grinnell College); Madeleine Goldman (Grinnell College); Eleanor Nicolson (Grinnell College); Linda Oyolu (Grinnell College); Lukas Resch (Grinnell College); Jovan Saldaña (Grinnell College); Soulideth Sounalath (Grinnell College); Tyler Williams (Grinnell College); ; ; ;
					Early Intervention to Enhance Female Interest in Computing Sciences	Jean French (Coastal Carolina University); Hailey Crouse (Coastal Carolina University)
					Computer Science Teaching Knowledge: A Framework and Assessment	Aleata Hubbard (WestEd); Yvonne Kao (WestEd)
					Open Extensible System for Dynamic Problem Creation for Computer Science	Keith Irwin (Winston-Salem State University); Darina Dicheva (Winston-Salem State University); Christo Dichev (Winston-Salem State University)
					An interactive Web Application Visualizing Memory Space for Novice C Programmers	Ryosuke Ishizue (Department of Computer Science and Engineering, Waseda University); Kazunori Sakamoto (National Institute of Informatics); Hironori Washizaki (Waseda University); Yoshiaki Fukazawa (Waseda University)
					Emerging Learning Progressions in K-5 Integrated Mathematics And Computer Science Lesson Plans	Maya Israel (University of Illinois at Urbana Champaign); Todd Lash (University of Illinois at Urbana Champaign)
					Hopper's Fables: A Mathematical Storytelling Adventure	Deja Jackson (Kennesaw State University); Erica Pantoja (Kennesaw State University); Cindi Simmons (Kennesaw State University); Kate Zelaya (Kennesaw State University); Amber Wagner (Kennesaw State University)
					Computational Thinking App Design Mat: Supporting the Development of Students' Computational Thinking Skills	Yerika Jimenez (University of Florida); Theodore Hays (Clemson University); Christina Gardner-Mccune (University of Florida)
					Implementing CS Principles as a Breadth-First Survey Course	Chris Mayfield (James Madison University)
					Can Undergraduate Computing Research Be Student-Driven?	Chelsea Patek (University of Wisconsin-Green Bay); Ankur Chattopadhyay (University of Wisconsin - Green Bay)
					Broadening Secure Mobile Software Development (SMSD) Through Curriculum Development	Fan Wu (Tuskegee University); Kai Qian (Kennesaw State University); Hossain Shahriar (Kennesaw State University); Cassandra Thomas (Tuskegee University)
					Applications of Specifications Grading in Computer Science Courses	Christian Roberson (Florida Southern College)
					Do Computer Science Exposure Activities and Courses Influence the Pursuit of Computing Majors in Higher Education among Underrepresented High School Students?	Allison Scott (Kapor Center for Social Impact); Alexis Martin (Level Playing Field Institute); Frieda McAlear (Level Playing Field Institute); Sonia Koshy (Kapor Center for Social Impact)
					Curricular Guidance for Associate-Degree Transfer Programs in Computer Science with Contemporary Cybersecurity Concepts	Cara Tang (Portland Community College); Cindy Tucker (Bluegrass Community and Technical College); Elizabeth K. Hawthorne (Union County College); Christian Servin (El Paso Community College)
					Building Evaluative Capacity for Out of School Organizations that Engage Girls in Computer Science	Juliet Tiffany-Morales (Google); Kathy Haynie (Haynie Research and Evaluation); Jason Ravitz (Google); Karen Peterson (National Girls Collaborative Project)
					A Flexible Late Day Policy Reduces Stress and Improves Learning	Jeramey Tyler (Rensselaer Polytechnic Institute); Matthew Peveler (Rennselaer Polytechnic Institute); Barb Cutler (Rensselaer Polytechnic Institute)
					Building Bridges: How the Southeast is Increasing the Representation of Students with Disabilities in STEM	Amber Wagner (Kennesaw State University); Daniela Marghitu (Auburn University)
					Finding Exercise Equilibrium: How to Support the Game Balance at the Very Beginning?	Jan Vykopal (Masaryk University); Jakub Čegan (Masaryk University)
					Collecting Participation Data Across NSF CS10K-Funded Professional Development Providers	Rebecca Zarch (SageFox Consulting Group); Alan Peterfreund (SageFox Consulting Group)
	K-12 / Novice Learners	K-12 Professional Development	Paper chaired by Judith Gal-Ezer (The Open University of Israel)	611	Professional Recognition Matters: Certification for In-service Computer Science Teachers	Sue Sentance and Andrew Csizmadia
					Building a Statewide Computer Science Teacher Pipeline	*Helen H. Hu, Cecily Heiner, Thomas Gagne and Carl Lyman*
					Teaching CS to CS Teachers: Addressing the Need for Advanced Content in K-12 Professional Development	Dan Leyzberg and Christopher Moretti
	Diversity	Diversity	Paper chaired by Ellen Walker (Hiram College)	612	Diversity Barriers in K–12 Computer Science Education: Structural and Social	Jennifer Wang and Sepehr Hejazi Moghadam
					Folk Pedagogy and the Geek Gene: Geekiness Quotient	Robert McCartney, Jonas Boustedt, Anna Eckerdal, Kate Sanders and Carol Zander
					Examining the Relationship Between Introductory Computing Course Experiences, Self-Efficacy, and Belonging Among First-Generation College Women	*Jennifer M. Blaney and Jane G. Stout*
	CS1	Non-CS Students	Paper chaired by Alistair Campbell	613/614	Increasing the Capacity of STEM Workforce: Minor in Bioinformatics	Sami Khuri, Miri VanHoven and Natalia Khuri
					Evaluation and Impact of a Required Computational Thinking Course for Architecture Students	*Nick Senske*

Day / Time	Theme	Topic	Track	Room	Title	Authors
Fri March 10th 3:45pm - 5pm Papers start @ 3:45pm, 4:10pm, 4:35pm			(Hamilton College)		Examining the Enrollment Growth: Non-CS Majors in CS1 Courses	Linda J. Sax, Kathleen J. Lehman and Christina Zavala
	Advanced Topics	Capstone	Paper chaired by Lillian "Boots" Cassel (Villanova University)	608	CORP: Co-operative Remote Practicum Work Experience Model for Software Engineering Education	Dannie M. Stanley
					Understanding Student Interactions in Capstone Courses to Improve Learning Experiences	*Andres Neyem, Juan Diaz-Mosquera, Jorge Munoz-Gama and Jaime Navon*
					A Two-Course Sequence of Real Projects for Real Customers	*Christian Murphy, Swapneel Sheth and Sydney Morton*
	Learning / Instructional styles	Online Learning	Paper chaired by Daniel Joyce (Villanova University)	609	A Pedagogical Analysis of Online Coding Tutorials	Ada S. Kim and Andrew J. Ko
					Lessons Learned in the Design and Delivery of an Introductory Programming MOOC	J. Michael Fitzpatrick, Ákos Lédeczi, Gayathri Narasimham, Lee Lafferty, Réal Labrie, Paul T. Mielke, Aatish Kumar and Katherine A. Brady
					Employing Retention of Flow to Improve Online Tutorials	*Ashok Basawapatna and Alexander Repenning*
	Panel / Special Session	CSP	Panel	6E	Social Justice and Equity in CS Education: Inaugural Launch of AP Computer Science Principles	Lien Diaz, Frances P. Trees, Dale Reed, Richard Kick and Andrew Kuemmel
		CYBER	Panel	602/603/604	The Passion, Beauty, and Joy of Teaching and Learning Cybersecurity	Richard Weiss, Casey W. O'Brien, Xenia Mountrouidou and Jens Mache
		UNDERGRAD TAS	Panel	606	Scaling Introductory Courses Using Undergraduate Teaching Assistants	Jeffrey Forbes, David J. Malan, Heather Pon-Barry, Stuart Reges and Mehran Sahami
		ICER	Special Session	607	ICER UP CS Ed Research Workshop Summary—Essence of Illustrative Projects	Eileen Kraemer, Aubrey Lawson and Murali Sitaraman
	Microsoft Supporter Session			616-617	Physical and Game-based Computing for CS Education	Thomas Ball (Principal Researcher/Research Manager, Microsoft Research), Peli de Halleux (Principal Research Software Engineer, Microsoft Research) and Eric Anderson (Senior Software Engineer, Microsoft)
	Oracle Academy Supporter Session			618-619	Computer Science Curriculum for K12 and Beyond	Tyra Crockett (Sr. Manager, Oracle Academy)
Fri March 10th 5:10-6pm	SIGCSE Business Meeting			6E	SIGCSE Business meeting	Amber Settle
Fri March 10th 6-7pm	NCWIT Reception			Sheraton Diamond Room	NCWIT Reception	
Fri March 10th 6:10-7pm	CCSC Business Meeting			6E	CCSC Business meeting	
Fri March 10th 7-8pm	Community College Reception			Sheraton Diamond Room	Community College Reception	Elizabeth Hawthorne
Fri March 10th 7-10pm	Friday Workshops			602-604	Workshop 301: An IoTa of IoT	Bill Siever and Michael P. Rogers
				616-617	Workshop 302: How to Collect, Analyze and Act on Learning Data in Computer Science Courses	Ananda D. Gunawardena
				618-619	Workshop 303: How to Plan and Run Computing Summer Camps - Logistics	Krishnendu Roy, Kristine Nagel and Sarah T. Dunton
				613-614	Workshop 304: Engaging Students with Algorithms	Crystal Furman, Sandy Czajka, Adrienne Decker and Dianna Xu
				611	Workshop 305: Two Birds - Teaching Coding and Math in Primary Schools and Beyond	Victor Winter and Betty Love
				608	Workshop 306: Hands-on Cybersecurity Exercises That are Easy to Access and Assess	Richard Weiss, Jens Mache, Michael E. Locasto and Frankly Turbak
				609	Workshop 307: Guiding Students to Discover CS Concepts & Develop Process Skills Using POGIL	Clif Kussmaul, Chris Mayfield and Helen H. Hu
				607	Workshop 308: Modules for Integrating Cryptography in Introductory CS and Computer Security Courses	Yesem Kurt Peker
				606	Workshop 309: Testing Across the Curriculum	Zachary Kurmas
				612	Workshop 310: Using and Customizing Open-Source Runestone Ebooks for Computer Science Classes	Bradley Miller, Paul Resnick and Barbara Ericson

Saturday March 11th, 2017

Sat March 11th 8:45am - 10am	Special Session	NIFTY	Special Session	6E	Nifty Assignments	Nick Parlante, Julie Zelenski, Dave Feinberg, Kunal Mishra, Josh Hug, Kevin Wayne, Michael Guerzhoy, Jackie Chi Kit Cheung and François Pitt
	ACM Student Research Competition Semi-final Presentations			611	Undergraduate ACM Student Research Competition Semi-finalist Presentations	Undergraduates
				612	Graduate ACM Student Research Competition Semi-finalist Presentations	Graduates
	ABET Supporter Session			616-617	Computing and CS Accreditation - What You Should Know	J.J. Ekstrom, Brigham Young University; Allen Parrish, US Naval Academy; Ed Sobiesk, Army Cyber Institute; Rajendra Raj, RIT
	Codio Supporter Session			618-619	An Online Solution to Authoring of Student Code Tests of Any Complexity and IDE Based Tutorial Content	Freddy May, Founder of Codio
	IBM Supporter Session			608	Introduction to Watson IoT	Gayathri Magie, IBM
	Gradescope Supporter Session			609	Grading Both Written and Programming Assignments on One Platform	Ibrahim Awwal, Sergey Karayev, Gradescope
Sat March 11th 10-11:30am	NSF Showcase #5			4A	Designing and Studying of Maker Oriented Learning to Transform Advanced Computer Science	Zane Cochran (Georgia Tech)
					Transforming Computer Science Education Research Through Use of Appropriate Empirical Research Methods: Mentoring and Tutorials	Jeffrey Carver (University of Alabama), Sarah Heckman (North Carolina State University) and Mark Sherriff (University of Virginia)
					Middle-years Computer Science	Sam Andow, Kaitlyn Eng, Julia McCarthy, Olivia Palenscar, Adam Schulze, Tommy Schneider, Zachary Dodds (all Harvey Mudd College) and Bryan Twarek (San Francisco Unified School District)
					Collaborative Research: Developing Course Modules to Teach Service-Oriented Programming through Exemplification and Visualization	Rajendra Raj (Rochester Institute of Technology)
Sat March 11th 10-10:45am	Demo Session #5			4A	App Lab - A Powerful JavaScript IDE for Rapid Prototyping of Small Data-backed Web Applications	Alice Steinglass, Baker Franke and Sarah Filman
					EarSketch, a Web-application to Teach Computer Science through Music	Jason Freeman, Brian Magerko, Doug Edwards and Lea Ikkache
	K-12 / Novice Learners	K-12, CSforAll	Paper chaired by Christina Gardner-McCune (University of Florida)	611	Interested In Class, But Not In The Hallway: A Latent Class Analysis (LCA) of CS4All Student Surveys	Kenneth E. Graves and Leigh Ann DeLyser
					Teaching Computer Science in the Victorian Certificate of Education: A Pilot Study	Richard Cox, Steven Bird and Bernd Meyer
					Concepts and Practices: Designing and Developing A Modern K–12 CS Framework	Miranda C. Parker and Leigh Ann DeLyser
	Diversity	Gender	Paper chaired by Manuel A. Perez Quinones (UNCC)	612	Gender Differences in Students' Behaviors in CS Classes throughout the CS Major	Christine Alvarado, Yingjun Cao and Mia Minnes
					Exploring Gender Diversity in CS at a Large Public R1 Research University	Monica Babes-Vroman, Isabel Juniewicz, Bruno Lucarelli, Nicole Fox, Thu Nguyen, Andrew Tjang, Georgiana Haldeman, Ashni Mehta and Risham Chokshi

Day / Time	Theme	Topic	Track	Room	Title	Authors
Sat March 11th 10:45am - noon Papers start @ 10:45am, 11:10am, 11:35am			(CROSS)		**Eliminating Gender Bias in Computer Science Education Materials**	Paola Medel and Vahab Pournaghshband
	CS1	CS1	Paper chaired by Brad Richards (Univ. of Puget Sound)	613/614	**Successful First-Year Experience for At-Risk Students**	Alice Armstrong
					Evaluating an Alternative CS1 for Students with Prior Programming Experience	Michael S. Kirkpatrick and Chris Mayfield
					Pencil Puzzles for Introductory Computer Science: an Experience- and Gender-Neutral Context	*Zack Butler, Ivona Bezakova and Kimberly Fluet*
	Advanced Topics	Advanced Concepts	Paper chaired by Andrew Ko (University of Washington)	608	**On the (Mis) Understanding of the this" Reference"**	Noa Ragonis and Ronit Shmallo
					Assessing and Teaching Scope, Mutation, and Aliasing in Upper-Level Undergraduates	Kathi Fisler, Shriram Krishnamurthi and Preston Tunnell Wilson
					Multiple Levels of Abstraction in Algorithmic Problem Solving	David Ginat and Yoav Blau
	Best Papers	Best Papers	Paper chaired by Tiffany Barnes & Dan Garcia (NC State & UC Berkeley)	6E	***Computing with CORGIS: Diverse, Real-world Datasets for Introductory Computing***	*Austin Cory Bart, Ryan Whitcomb, Dennis Kafura, Clifford A. Shaffer and Eli Tilevich*
					Making Noise: Using Sound-Art to Explore Technological Fluency	*Erik Brunvand and Nina McCurdy*
					Infrastructure for Continuous Assessment of Retained Relevant Knowledge	*Kathleen Timmerman and Travis Doom*
	Panel / Special Session	TOOLS	Panel	602/603/604	**Technology We Can't Live Without!, revisited**	Ria Galanos, Whitaker Brand, Sumukh Sridhara, Mike Zamansky and Evelyn Zayas
		CC2020	Panel	606	**CC2020: A Vision on Computing Curricula**	Alison Clear, Allen Parrish, Ming Zhang and Gerritt van der Veer
		CYBER	Special Session	607	**ACM Joint Task Force on Cybersecurity Education**	Diana Burley, Matt Bishop, Siddharth Kaza, David S. Gibson, Elizabeth Hawthorne and Scott Buck
	GitHub Supporter Session			616-617	**git init: How I Implemented GitHub in My Classroom**	David Malan, Harvard University; Omar Shaikh, San Francisco State University; Vanessa Gennarelli, GitHub Education
	Teradata University Network Supporter Session			618-619	**Exciting Ways To Engage Your Students With the Power of Data**	Susan Baskin, Teradata Corporation; Karen Davis, University of Cincinnati
	Lightning Talks			609	**Teach Global Impact: A Resource for CSP (or Any CS Class!)**	Julia Bernd (International Computer Science Institute) and Jonathan Corley (U West Georgia)
					Bringing Real-Time Collaboration to Visual Programming	Brian Broll (Vanderbilt University); Akos Ledeczi (Vanderbilt University)
					Establishing Conventions for Citing Educational Materials	Douglas Fisher (Vanderbilt University)
					Moving From Business Education to Computer Science Concepts in the Middle Grades	Patty Hicks (Indian Prairie School District)
					Teach Access: Preparing Computing Students for Industry	Megan Lawrence (Microsoft); Mary Bellard (Microsoft)
					Seeking Evidence for Basing the CS Theory Course on Non-decision Problems	John Maccormick (Dickinson College)
					Developing Big Data Curriculum with Open Source Infrastructure	Anurag Nagar (University of Texas at Dallas)
					Curriculum Design for 'Explorations in Computing' (a New General Education Course at USC)	Saty Raghavachary (USC)
					Accessibility as a First-Class Concern in Teaching GUIs and Software Engineering	Joel Ross (U Washington iSchool); Andrew Ko (U Washington iSchool); David Stearns (U Washington iSchool)
					Class-Sourcing Exams: Student-Generated Exam Questions	Kendra Walther (University of Southern California)
					Using the 5 Practices to Improve Facilitation of POGIL Activities	Dee Weikle (James Madison University)
					Lessons learned from an EPIC course - Mobile Application Development for Mobile Health	Chen-Hsiang Yu (Wentworth Institute of Technology)
Sat March 11th noon-2pm	**Lunch & Keynote**			6B/6C	**Fulfilling Papert's Dream: Computational Fluency for All**	Mitchel Resnick (MIT Media Lab)
Sat March 11th 3-6pm	**Saturday Workshops**			618-619	**Workshop 401: Evidence Based Teaching Practices in CS**	Briana B. Morrison, Mark Guzdial, Cynthia Lee, Leo Porter and Beth Simon
				616-617	**Workshop 402: Teaching Parallel Computing with OpenMP on the Raspberry Pi**	Suzanne J. Matthews, Joel C. Adams, Richard Brown and Elizabeth Shoop
				613-614	**Workshop 403: CS Discoveries: An Introductory Course for Late Middle and Early High School**	Josh Caldwell, Dani McAvoy and GT Wrobel
				612	**Workshop 404: How to Plan and Run Effective Teacher Professional Development**	Barbara Ericson, Rebecca Dovi and Ria Galanos
				611	**Workshop 405: Creating Peer Grading Videos**	Shawn Lupoli and Karan K. Budhraja
				608	**Workshop 406: Designing Blended Learning Models to Support Computational Learning: Minecraft Edition**	Dominic A. Amato and Ugochi Acholonu
				609	**Workshop 407: From Lightbulbs to Logic: Teaching Hardware in Intro to CS**	Sean Hickey
				607	**Workshop 408: How to Integrate Interactive Learning into Large Classes**	Stephan Krusche, Andreas Seitz, Nadine von Frankenberg and Bernd Bruegge
				606	**Workshop 409: UTeach CS Principles: Broadening Participation Through K–12 Computer Science Education and Teacher Professional Learning and Support**	Bradley Beth and Amy Moreland
				602-604	**Workshop 410: C-STEM: Engaging Students in Computing with Robotics**	Tasha Frankie, Duane Wesley, James Gappy and Harry Cheng