CCSC
CONSORTIUM FOR COMPUTING SCIENCES IN COLLEGES
South Central Region

CCSC South Central Conference 2023 Schedule

Friday, March 31, 2023

Location: Stephen F. Austin State University, Nacogdoches, Texas
Ed and Gwen Cole STEM Building (STEM)
1720 Clark Blvd, Nacogdoches, Texas 75962

Registration (11:00 am – 4:00 pm)
Location: Ed and Gwen Cole STEM Building, suite 312 (3rd floor)

Opening Session (1:00 pm – 1:45 pm)

Paul Gault | Provalus
Location: STEM Planetarium Ed and Gwen Cole STEM Building, 1st Floor

Paul R. Gault is a seasoned business executive and technology leader with over 25 years of experience in the information technology industry. He currently serves as the Senior Director of the Provalus Meridian Program; whose mission is to elevate under-served communities by providing technology, business and support positions to untapped talent in rural communities within the U.S. Their work provides Fortune1000 companies the dependable, quality and practical services they need…straight from the heart of America.

Prior to joining Provalus, Paul held several executive positions at various software companies, including Advisory Specialist Leader for Deloitte, Director of Security Solutions for InteliSecure (a division of Proofpoint), Senior Network Administrator for General Dynamic Information Technology, and over 20 years in the United States Air Force as Superintendent, Standards and Self-Assessments/Quality Assurance and Network Team Lead, Integrated Network Operations and Security Center. In these roles, he was responsible for building and scaling global support organizations that provided mission-critical services to enterprise customers.

Paul is a results-driven leader with a passion for delivering exceptional customer experiences. He is known for his ability to build high-performance teams, foster collaboration across departments, and drive innovation in support delivery. He is also a strong believer in using data and analytics to measure customer success and optimize support operations. He has a strong passion for disaster and humanitarian relief, economic empowerment, politics, science and technology, and education.

Paul is originally from Hickory Plains, AR, and has three children; Hunter, a medical school student in Denver, CO; Madilyn, a therapist in Orlando, FL; and Taylor, an early childhood director qualified teacher in Denver, CO. Paul resides in Navarre, FL, when he is not supporting one of the many colleges his program has ties to.

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@ Provalus (https://provalus.com/) we are elevating high-potential rural communities by creating technology, business and support careers for undiscovered talent in the U.S. Our team delivers quality I.T. services for clients looking for dependable outsourcing such as SOC & Security Operations, Customer Experience, Service Desk, Helpdesk, NOC & Network Operations and other technology support. From our state-of-the-art facilities, we employ over 500 individuals… and we've only just begun.

Concurrent Session 1 (2:00 pm – 2:50 pm)

Room: STEM 401
Professional Paper Session
Moderator: **TBA**

2:00 ***Bug Battles: A Competition to Catch Bugs in Different Programming Languages***
Waleed Alhumud, Abdullah Alenzi, Renee Bryce, Yuan Li, University of North Texas
Nasser Alshammari, Jouf University

2:25 ***Hands-on Lab Development for Policy Violations in Voice Personal Assistants***
Alejandra Enriquez-Sanchez, Oludare Ogunbowale, Olayinka Adetola, Na Li, Prairie View A&M University

Room: STEM 402
Professional Paper Session
Moderator: **TBA**

2:00 ***Iterative Efforts for Improving Learning Experience in Software Engineering***
Pradip Dey, Mohammad Amin, Bhaskar Raj Sinha, National University

2:25 ***Preparing ABET Accreditation for an Undergraduate Software Engineering Program***
Jicheng Fu, Myungah Park, Gang Qian, Hong Sung, Thomas Turner, University of Central Oklahoma

Room: STEM 405
Tutorial Session
Moderator: **TBA**

2:00 **Programming Many-Core Architectures (GPUs) using CUDA**
Eduardo Colmenares, Midwestern State University
This tutorial targets students and faculty interested in a basic, quick, but strong complementary hands-on programming component in which several of features that can be found in modern GPUs will be studied. The tutorial does not focus on the use of AI frameworks but in GPU programming instead.
A basic idea of C or C++ programming
No previous GPU Programming Needed.

Break with Refreshments (2:50 pm – 3:00 pm) – Location: STEM 403

Concurrent Session 2 (3:00 pm – 3: 50 pm)

Room: STEM 401
Professional Paper Session
Moderator: **TBA**

3:00 ***Supporting Low-Income, Talented Undergraduate Students in Engineering and Computing Sciences with Scholarships and Mentoring***
Dulal Kar, Scott King, Dugan Um, Texas A&M University-Corpus Christi

3:25 ***Developing Incident Response-focused Cybersecurity Undergraduate Curricula***
Junghwan Rhee, Myung-Ah Park, Fei Zuo, Shuai Zhang, Gang Qian, Goutam Mylavarapu, Hong Sung, Thomas Turner, University of Central Oklahoma

Room: STEM 402
Professional Paper Session
Moderator: **TBA**

3:00 ***Comparative Sequential and Parallel Discrete Signal Convolution Algorithms: A Case Study***
Caleb Sneath, Eduardo Colmenares, Midwestern State University

Break with Refreshments (3:50 pm – 4:00 pm) – Location: STEM 403

Concurrent Session 3 (4:00 pm – 4:50 pm)

Room: STEM 405
Tutorial Session
Moderator: **TBA**

4:00 **Bloom's for Computing: Crafting Learning Outcomes with Enhanced Verb Lists for Computing Competencies**

Christian Servin

In this tutorial, participants will be introduced to Bloom's for Computing: Enhancing Bloom's Revised Taxonomy with Verbs for Computing Disciplines, a project of the ACM CCECC (Committee for Computing Education in Community Colleges). The enhanced verb list is intended to support crafting more appropriate and less awkward learning outcomes and competencies that express the knowledge, skills, and dispositions required in computing disciplines. The Bloom's for Computing verb list and report is not just for use in future ACM curriculum guideline reports, but is primarily for educators in computing disciplines who find themselves needing to craft learning outcomes or competencies – whether for programs, courses, or individual modules; whether two-year, four-year, graduate, or K-12 level; whether faculty, instructional designers, or program coordinators.

Room: STEM 401
Nifty Assignments Session
Moderator: **TBA**

4:00 **f(x) is not a function (in both functional programming and math)**

Cong-Cong Xing, Nicholls State University

Jun Huang, Baylor University

Typically, we say that a function is defined when we see an equation such as f(x) = x + 1 in both mathematics and computer science (this is especially the case in ML functional programming as the corresponding ML code is just fun f(x) = x+1). When asked which one between f and f(x) in the equation represents the function being defined, most students choose f(x), some students choose both f and f(x), and almost no one chooses f itself only. Although the need of differentiating f and f(x) is not clearly felt in mathematics in the sense that confusing the two will not prevent students from getting work done in mathematics, doing so in typed functional programming will pose a serious problem -- programs simply will not work if f and f(x) are mixed up and not properly distinguished. Also, after being told that f and f(x) are different (namely, f represents the function but f(x) does not), many students just respectfully take the result but do not truly understand the difference between them. Furthermore, another question arises: if f represents the function but f(x) does not (as pointed out), then why do we ALWAYS say that the equation f(x) = x+1, which literally just tells us what f(x) is (not what f is) because it is f(x) (not f) that appears on the left hand side of the equation, defines a function? The purpose of this nifty assignment is to propose a series of carefully-devised from-easy-to-hard questions that aim to address these issues and help students to comprehend them both theoretically (on paper) and pragmatically (in ML coding).

Break with Refreshments (4:50 pm – 5:00 pm) – Location: STEM 403

Poster Session (5:00 pm – 5:45 pm)
Location: Barry Nelson Atrium STEM Building, 1st Floor

Note: Student posters must be up by 3:00 pm

Reception and Banquet (6:15 pm – 7:30 pm)
Location: STEM 401 & STEM 402

Steering Committee Business Meeting (Monday 5:00 pm – 5:30 pm)
Location: via Zoom Meeting

CCSC National Partners Program

Special thanks to all of our National Partners for helping support the activities of the Consortium. CCSC's National Partners Program provides organizations exposure ranging from displaying a logo with a link to the organization (Associate Level and above), to reduced registration fees (Silver Level), to a display table, a partner slot at all Regional Conferences, and promotional material placed in conference packets (Gold Level and above), to a dedicated page on the CCSC website (Platinum Level).

Details regarding benefits offered at each level are available in this National Partner Levels and Benefits guide. For more information about the program, contact Carol Spradling, CCSC National Partners Chair: partners@ccsc.org.

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