



29th Annual CCSC Rocky Mountain Conference Program

Friday, October 9, 2020
Paper Sessions

10:00 am - 10:25 am (MST)

Delving into Factors Influencing New York Crime Data with the Tools of Machine Learning

Marco Pinto, H. Wei, K. Konate, & I. TourayWeber, NYC College of Technology

10:30 am - 10:55 am (MST)

Experiences Offering An Online Version of Computer Science Support (Peer Tutoring) to Undergraduate Computer Science Majors in the Era of COVID-19

Karina Assiter, Landmark College

11:00 am - 11:25 am (MST)

Results of using a Multi-Programming Language Approach

Ed Lindoo, Regis University

11:30 am - 11:55 pm (MST)

An Empirical Study of How Novice Programmers Search the Web for Help

Ryan Michaels¹, Naveen Tula², Susie Ramisetty-Mikler², Dmitry Nurmuradov², & Renee Bryce², St Edwards University¹, University of North Texas²

12:00 pm - 12:25 pm (MST)

The Japanese Fifth Generation Computing Project: Brief Survey

J. Paul Myers, Jr. & Kayako Yamakoshi, Trinity University

12:30 pm - 12:55 pm (MST)

A System for Automatic Lexical Acquisition from PubMed

Daniel McDonald, Utah Valley University

1:00 pm - 1:25 pm (MST)

Integrating Mobile Relational Databases and Cloud-based File

Rob Sjodin¹, Robert Mason¹, & Mohamed Lotfy², Regis University¹, Utah Valley University²

1:30 pm - 1:55 pm (MST)

Assessing Higher-Order Thinking Skills for Program-Level Student Outcomes: A Longitudinal Case Study

Kimberly Bartholomew, Utah Valley University

2:00 pm - 2:25 pm (MST)

Integrating Cloud-based NoSQL Technology and Mobile Phone Relational Databases

Rob Sjodin¹, Robert Mason¹, & Mohamed Lotfy², Regis University¹, Utah Valley University²

2:30 pm - 2:55 pm (MST)

Effectiveness of Online Teaching Paradigm on Learning Experiences in Database Courses

Mohammad N. Amin, Pradip Peter Dey, & Bhaskar Raj Sinha, National University

3:00 pm - 3:25 pm (MST)

Teaching Students about Usability Testing in Distance Learning Environments
Jimenez, Osvaldo & Daniel Cliburn, University of the Pacific

3:30 pm - 3:55 pm (MST)

Supporting Asynchronous Learners with Multiple Representations

Pradip Peter Dey, Bhaskar Raj Sinha, & Mohammad N. Amin, National University o

4:00 pm - 5:00 pm (MST)

CCSCRM Board Meeting (open to all)

Note:

All times are Mountain Standard Time

Session will be conducted using Microsoft Teams, will be recorded and posted on the CCSCRM website.



29th Annual CCSC Rocky Mountain Conference Program

Saturday, October 10, 2020
Tutorial Sessions

9:00 am - 10:00 pm (MST) Tutorial I

What I have learned about Teaching from Scoring AP Computer Science Exams
Victoria Eisele, Front Range Community College

10:05 am - 12:00 am (MST) Tutorial II

Integrating Cloud-based File Storage and NoSQL Databases with Mobile App SQLite

Rob Sjodin¹ & Mohamed Lotfy², Regis University¹, Utah Valley University²

12:05 pm - 2:00 pm (MST) Tutorial III

Programming with the Cloud
Laurie White, Google

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Tutorial Descriptions

Tutorial I: What I have learned about Teaching from Scoring AP Computer Science Exams ple
Victoria Eisele, Front Range Community College

In this tutorial we will explore different ways people teach introduction to programming concepts and what seem to lead so more or less understanding. I would like this to be open discussion of why we teach the programming concepts the way we do.

Tutorial II: Integrating Cloud-based File Storage and NoSQL Databases with Mobile App SQLite
Rob Sjodin¹ & Mohamed Lotfy², Regis University¹, Utah Valley University²

In part 1 of this tutorial, we will provide a hands-on working example of a mobile app that backs up its user data to cloud-based file storage.

In part 2 of this tutorial, we will illustrate the integration of cloud-based NoSQL technology and mobile phone SQL databases. The remote NoSQL database is used as the primary source for storing the user's application data. The mobile relational database is used as a local, embedded cache when connectivity to the cloud provider is not available. The cache is used to update the cloud NoSQL database when online connectivity is reestablished. The employed cloud service is Google Firebase and the mobile application framework is Android, but the concepts can be applied to any cloud provider and mobile framework. An end-to-end working example is given to illustrate the concepts.

Tutorial III: Programming with the Cloud
Laurie White, Google

While there's a lot to learn about cloud computing, the cloud can also be used in classes as fundamental as programming courses with little change to the material being taught. The cloud can provide a uniform programming environment for students regardless of the computers they use to access it remotely. It can provide computing resources beyond what some students may have on their own computers. And there are even some cloud services that can be used to make even the simplest programming assignments more interesting.

And yes, everything this workshop will include is available at no cost to regionally accredited colleges and universities in the US.