



31st Annual CCSC Rocky Mountain Conference Program Utah Valley University

Friday, October 21, 2022

11:00 am - 12:00 pm

Location: Computer Science building room 404 (CS 404)

The Algorithm for Success
What do graduates really need to know?

Heather Monigan

Director of IP Strategy & Management
Intel Corporation's Network & Edge Group (NEX).



Heather Monigan is the Director of IP Strategy & Management for the Intel Corporation's Network & Edge Group (NEX). Over the time horizon of her 23+ year career, she has forged her own path embracing both engineering and leadership with a deep, technical background in software product Management, computer hardware design, analog engineering, signal integrity, Intellectual Property (IP) and Executive Business Leadership. Most recently, she is at the helm of a global, high-impact, and diverse team providing IP muscle to Intel's 3rd largest business unit. Heather is a dynamic, passionate speaker who enjoys sharing her knowledge and stories with a side of humor. She has a Bachelor's in Computer Engineering from the University of Dayton and an MBA. She serves on the Grand Canyon University Engineering Advisory Board, is the current Vice Chair of IEEE PHX Section and is active in SWE. Heather spends her "spare" time staying married and keeping sane with two teenagers.



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Paper Sessions

Location: Computer Science building room 404 (CS 404)

12:00 pm - 12:25 pm

Teaching API Development Using Scaffolding-inspired Techniques

Thyago Mota, Metropolitan State University of Denver

12:30 pm - 12:55 pm

Teaching Case Study: Introducing Quantitative Risk Assessments in a Cybersecurity Risk Management Course

Basil Hamdan, Utah Valley University

1:00 pm - 1:25 pm

The Structure and Delivery of an Advanced Systems Administration IT Course

Mohamed Lotfy & Christian Fredrickson, Utah Valley University

1:30 am - 1:55 pm

Integrating Diversity, Equity, and Inclusivity Curriculum into Introductory Computer Science Courses

Jody Paul, Metropolitan State University of Denver

2:00 pm - 2:30 pm

Break

2:30 pm - 2:55 pm

Course Delivery Preferences of Students Post-COVID 2022

John E. Anderson, Daniel McDonald, & Nicholas Ball, Utah Valley University

3:00 pm - 3:25 pm

Designing a Real-World Deep Learning Project for Undergraduate Students

Jingsai Liang & Wynter Mindnich, Westminster College

3:30 pm - 3:55 pm

Infusing Syntactic Knowledge into Deep Learning for Clinical Relationship Extraction

Maxwell Wayne & Sam Henry, Christopher Newport University

4:00 pm - 4:25 pm (MST)

A Survey of Software Testing Tools in the Web Development Domain

Abdullah Alenzi, Waleed Alhumud, & Renée Bryce, University of North Texas;
Nasser Alshammari, Jouf University, Saudi Arabia

4:30 pm - 4:55 pm

Dead Reckoning and Terrain Image Processing as basis for UAV Home-oriented Navigation under foreign GPS-denied Environments

Christine Van Kirk, University of Notre Dame; Alice Chen, The City College of New York; Saad Biaz & Richard Chapman, Auburn University

5:00 pm - 5:30 pm

CCSCRM Board Meeting (open to all)

6:00 pm - 8:00 pm

Dinner

Note:

All times are Mountain Time



31st Annual CCSC Rocky Mountain Conference Program Utah Valley University

Saturday, October 22, 2022
Tutorial Sessions

8:30 am - 9:30 am Tutorial I - Room CS 615B

Event Log Analysis for Threat Hunting & Detecting Suspicious/Malicious Behavior

Basil Hamdan, Utah Valley University

9:30 am - 10:30 am Tutorial II - Room CS 621

Hands-on Working Examples of How to Perform Advanced Systems Administration on a Virtualized Environment

Mohamed Lotfy & Christian Fredrickson, Utah Valley University

10:30 am - 12:00 pm Tutorial III - Room CS 615B

The Evolution of Cloud Tutorials

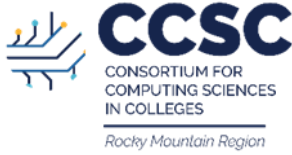
Laurie White, Google

12:00 pm - 1:00 pm - CS 4th floor atrium

Lunch

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Tutorial Descriptions

Tutorial I: Event Log Analysis for Threat Hunting & Detecting Suspicious/Malicious Behavior
Basil Hamdan, Utah Valley University

This workshop aims to introduce participants to the basics of Event Log Analysis in a Windows environment. Attendees interested in cybersecurity in general and in log analysis in particular will be introduced to Event Logs and the Event Viewer tool as the default logging capability on a Windows-based system.

Tutorial II: Hands-on Working Examples of How to Perform Advanced Systems Administration on a Virtualized Environment
Mohamed Lotfy & Christian Fredrickson, Utah Valley University

In this tutorial we will provide hands-on working examples of how to perform advanced systems administration on a virtualized environment. We will introduce containers using Docker and deploy different containerized servers to replicate current organization infrastructure. In addition, we will share the current virtual infrastructure and environment utilized by Utah Valley University.

Tutorial III: The Evolution of Cloud Tutorials
Laurie White, Google

Tutorials, walkthroughs, quick starts--whatever you call them, they can be very useful in learning new technologies, such as cloud tools. Fortunately, there's been a lot of improvements from the "list of instructions" many of us have used previously. In this workshop, participants will have the opportunity to explore numerous tutorial styles and learn about the benefits of each. All items presented are available at no cost for most higher education institutions