FRIDAY

Session 1

| | Room: Hidatsa | | Room: Arikara | | |
|---------|-------------------------|---|----------------------|---|--|
| 1:00 PM | Md. Minhaz Chowdhury | Cloud Security: Challenges, Attacks, and Techniques | Nancy Mahlen | Promulgating Computer Science in High School Education | |
| 1:30 PM | Sayeed Sajal | Cyber-Physical System Security Treats: Challenges and Solutions | Muhammad Abusaqer | Teaching Computer Packages to Students Different in Everything | |
| 2:00 PM | Md. Minhaz Chowdhury | Honeypots: Security by Deceiving Threats | Andrew Jones | Analysis of Autonomous Robotic Competitions for Problem-Based Learning | |
| 2:30 PM | Kendall Nygard | Trust and its influence on Technology | Warren S. Vaz | Promoting Undergraduate Computing and Engineering Research via Educational and Scientific Drones Case Study: Hexacopter Drone with Raspberry Pi Module | |

| | Room: Hidatsa | | Room: Arikara | |
|---------|-------------------------|--|---------------|---|
| 4:00 PM | Md. Minhaz Chowdhury | Security Issues of SCADA Systems | Riley Conlin | Deep Network Ice Crystal Classification using Spatial Pyramid Pooling for Inconsistent Image Dimensions |
| 4:30 PM | Kendall E. Nygard | Identifying Malicious Users Through Behavior | David Doll | Visualizing Real-time Feedback of a Rehabilitation Trainer |
| 5:00 PM | Emerald Simkhada | Security Threats/Attacks via Botnets and Botnet Detection & Prevention techniques in Computer Networks: A Review | Ronald Marsh | Visual Means for 3D Printer Quality Assessment |
| 5:30 PM | Teddy Pare | Darknet and Black Market Activities against the Cybersecurity: A Survey | Ben Bernard | Designing and Implementing a low cost 3D printer farm |

FRIDAY

Session 1

| | Room: Badlands | | Room: Mandan | |
|---------|----------------|--|--------------------------------------|--|
| 1:00 PM | Israt Jahan | Mobile Applications Online Review and Rating Research: A Systematic Analysis and Heuristic- Systematic Model | Tamaike Brown | Cloud Security Model CSM 2.0: An Autonomic Cloud Security Gateway |
| 1:30 PM | Wen-Chen Hu | Robust Privacy Preservation of Location-Based Services Using Dummy Locations or Routes | Erich Rice | Evaluation of the Performance of Two Public Cloud Computing Platforms Through the Use of a Distributed Encryption System |
| 2:00 PM | Sayeed Sajal | Need and Challenges of Edge Computing in Software Engineering for Internet of Things (IoT) | Ashley Creps | Web Accessibility: an Introduction |
| 2:30 PM | Matthew Wright | Finding Minimal Spanning Forests in a Graph | Trevor Tracy & Thomas Marrinan | Web Browser Rendering and Interaction in Custom OpenGL Applications |

| | Room: Badlands | | Room: Mandan | |
|---------|-----------------------|--|---------------|--|
| 4:00 PM | Mohamed Omar | Interpolating Historical Photos Using Neural Networks | Sayeed Sajal | System Issues in Software Development-Problems, Effects and Solutions |
| 4:30 PM | Cohl Dorsey | Artificial Civ: Deep Learning Strategies for Multiplayer Turn-Based Video Games | Saleh Alnaeli | How to Empirically Assess the Quality of Software Source Code in The Era of Multicore Architecture and Multithreaded Programming |
| 5:00 PM | Naomi Green | Neural Networks in Robotics | Sayeed Sajal | Impact of Software Tools and Environment to the Development Process |
| 5:30 PM | Tribikram Adhikari | Comparing the Viability of Different Machine Learning Models to Predict Student Retention | Tamaike Brown | Machine Learning (ML) Framework for Identifying Inconsistencies in Software Requirement Document (SRD) |

FRIDAY

Session 2

Room: Meadow Lark

| 4:00 PM | Thomas E. Gibbons | Nifty Assignment: Jupyter Notebooks in the Cloud with Google's Colab |
|---------|----------------------|--|
| 4:30 PM | Darren Seifert | Nifty Assignment: Incorporating Game Design in an Introductory Computer Science Classroom |
| 5:00 PM | | |
| 5:30 PM | Panel | Faculty Birds-of-a-Feather |

SATURDAY

Session 3

| | Room: Hidatsa | | Room: Arikara | | |
|---------|------------------------|---|---------------|--|--|
| 8:30 AM | Mohammad Barrawi | Safe Functions Algorithm | Ben Bernard | Virtual Reality Labs and Curriculum Integration | |
| 9:00 AM | Dennis Guster | Protection Effectiveness and Vulnerabilities of the Heap With in Docker Container Systems | Adam Poland | Haptic Interface for the Visually Impaired | |
| 9:30 AM | Divyaa Kamalanathan | Comparing NoSQL and SQL database systems based on vulnerability to injections and adequacy of countermeasures | Ben Bernard | Augmented Reality Sand Table for Teaching and Research | |

| | Room: Hidatsa | Room: Arikara | | |
|----------|---------------------|---|---------------|---|
| 10:30 AM | Jeremy Straub | No Courses, No Budget, No Hardware No Problem: Development of an Agile Cybersecurity Program | Sumin Yi | Evaluating the impact of time delays and start sequence for effective congestion control using TCP Reno, Westwood and Vegas |
| 11:00 AM | Demitrius Fenton | Overview of NDSU Computer Science Cyber Range Development | Brandon Mord | Method for Decoupled and Cohesive Data Communication in Avionics with Non-Terminating Threads |
| Noon | Donald Heier | Developing Cybersecurity Degree Programs to Meet Workforce Needs | Gary Griswold | Quantitative Analysis to Verify Fairness of TCP CUBIC in NS-2 |

SATURDAY

Session 3

Room: Badlands

| Amrita Problem with Probabilistic Sayeed Sajal Challenges and FOR Optimization Sayee Sayee Sajal Challenges Sayee Sajal Challenges Sayee Sajal Challenges Sayee Sajal Challenges Sayee Sayee Sajal Challenges Sayee Sajal Challenges Sayee |
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Room: Mandan

| 8:30 AM | Amrita Chatterjee | Problem with Probabilistic Elitist Ant Colony Optimization | Sayeed Sajal | development(TDD) - Challenges and Potential Pitfalls |
|---------|---|--|----------------|---|
| 9:00 AM | Shawn Saliyev, Nicholas M. Plucker, Nicholas Freitag McPhee | Rerunning the Course of Evolutionary Computation | Erik Steinmetz | Building a Computer Cluster Using Recently Retired Server-Grade Computers |
| 9:30 AM | Salvatore Skare | Using a Recurrent Neural Network and Articulatory Synthesis to Accurately Model Speech Output | Shaun Lynch | Reviewing an Academic Computing Infrastructure: Reflecting on the Past to Forge a Path into the Future |

| | Room: Badlands | | Room: Mandan | | |
|----------|-------------------------------|--|--------------|---|--|
| 10:30 AM | Scott Kerlin | Creating a Machine Learning Algorithm to Play a Collection Mini-Game | Riley Conlin | Deep Network Ice Crystal Classification using Spatial Pyramid Pooling for Inconsistent Image Dimensions | |
| 11:00 AM | David Mathias | A Co-evolutionary Genetic Algorithm to Avoid Airline Passenger Denied Boarding | Scott Kerlin | Using Parallelization and SIMD to Compute Graph Colorings | |
| Noon | Lakshmi Priya Girish Kumar | Text mining on business and computer science undergraduate internship job postings | Mao Zheng | Exploring Restaurants' Text Reviews vs. Rating using Yelp Dataset | |

SATURDAY

Session 3

Room: Room of Nations Room: Prairie Rose

| 8:30 AM | Michael Witham | Comparative analysis of MariaDB's performance efficiency as a suitable replacement for MySQL | | |
|---------|----------------|--|----------------------------|--|
| 9:00 AM | lan Gilbert | Git Repositories | Panel Professional Develop | A BOF Discussing Professional Development in CS for K12 Teachers |
| 9:30 AM | John Repko | Jump-starting The "Computer Revolution" That Hasn't Begun Yet | | |

| 10:30 AM | Sayeed Sajal | Software Project Management and its Related Factors | | |
|----------|--------------|--|-------|---|
| 11:00 AM | Sayeed Sajal | Software Project Management and Underlying Development Factors | Panel | Additive Manufacturing & Its Applications |
| Noon | | | | |