The Computer Science Research Workshop is managed by the Computer Science Graduate Program Committee.

For comments:
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BEST PRESENTATION AWARDS
(AMAZON GIFT CARD)

1ST AWARD: $200
2ND AWARD: $150
3RD AWARD: $100

9TH ANNUAL
COMPUTER SCIENCE
RESEARCH WORKSHOP

5 APRIL 2019
PKI 158
EVENT SCHEDULE

MORNING SESSION

9:30  Opening Social

10:00  Learning from Imbalanced Datasets: Evaluating the Predictive Accuracy of Minority Classes
Student: Adithi Deborah Chakravarthy
Advisors: Dr. Qiuming Zhu, Dr. Zhengxin Chen

10:15  A Technique for Improving Classification Accuracy of Highly Imbalanced and Sparse Datasets
Student: Sindhura Bonthu
Advisor: Dr. Qiuming Zhu

10:30  An Application of Artificial General Intelligence in Board Games
Student: Nathan Skalka
Advisor: Dr. Raj Dasgupta

10:45  Machine Learning Techniques for Predicting Mobility-Related Perception Errors in Astronauts
Student: Steven Belcher
Advisor: Dr. Raj Dasgupta

11:00  Intelligent and Human-Aware Decision-Making for Semi-Autonomous Human Rehabilitation Assistance Using Modular Robots
Student: Anoop Mishra
Advisor: Dr. Raj Dasgupta

11:15  Processing Narratives by Means of Action Languages
Student: Craig Olson
Advisor: Dr. Yuliya Lierler

11:30  Co-Designing an Academic Focus Mobile Application
Student: Farhat Afzali
Advisor: Dr. Briana Morrison

11:45  Analysis of Subgoal Data in Computer Science Principles - Data Cleaning
Student: Hari Ramilison
Advisor: Dr. Briana Morrison

LUNCH BREAK

12:00  Pizza Lunch

AFTERNOON SESSION

SOFTWARE ENGINEERING

12:45  Tool Support for Recurring Code Change Inspection with Deep Learning
Student: Krishna Teja Ayinala
Advisor: Dr. Myoungkyu Song

1:00  Automated Tool Support for Security Bug Repair in Mobile Applications
Student: Larry Singleton
Advisors: Dr. Harvey Siy, Dr. Myoungkyu Song

PROGRAMMING LANGUAGES

1:15  Automatic Program Rewriting for Non-Ground Answer Set Programs
Student: Nicholas Hippen
Advisor: Dr. Yuliya Lierler

1:30  Dynamic Lazy Grounding in Answer Set Programming
Student: Brian Hodges
Advisor: Dr. Yuliya Lierler

VIRTUALIZATION, SIMULATION

1:45  Simulator for Quibit Measurement Using Augmented Reality
Student: Sai Pradeep Koneti
Advisors: Dr. Mahadevan Subramaniam, Dr. Abhishek Parakh

2:00  Implementation of Fast Hydraulic Erosion Simulation and Visualization on GPU
Student: Brian Hawkins
Advisor: Dr. Brian Ricks

2:15  Snack Break

INTELLIGENT NETWORK SYSTEMS

2:45  Conflict Resolution Using Alpha-Shapes for Distributed Robotic Sampling of Ambient Phenomena in Initially Unknown Environments
Student: Bradley Woosley
Advisor: Dr. Raj Dasgupta

3:00  A Formal Approach to Circle Formation in Multi-Agent Systems
Student: Rui Yang
Advisor: Dr. Azad Azadmanesh

3:15  Consensus-Based Robotic Formation Control
Student: Satish Reddy Modugu
Advisor: Dr. Hassan Farhat

3:30  Performance Analysis of Voting Algorithms in Wireless Sensor Networks
Student: Aditi Mishra
Advisor: Dr. Azad Azadmanesh

3:45  Parallel Scalable Algorithms for Updating Dynamic Networks
Student: Sriram Srinivasan
Advisor: Dr. Sanjukta Bhowmick

4:00  Closing Social