

Apr 1st, 2:00 PM - 12:00 AM

## Closing Social

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UNIVERSITY OF NEBRASKA AT OMAHA  
COLLEGE OF INFORMATION SCIENCE & TECHNOLOGY  
COMPUTER SCIENCE

## **BEST PRESENTATION AWARDS**

(AMAZON GIFT CARD)

1ST AWARD: \$200

2ND AWARD: \$150

3RD AWARD: \$100

# 10TH ANNUAL COMPUTER SCIENCE RESEARCH WORKSHOP

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

For comments:

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1 April 2022  
PKI 158

# EVENT SCHEDULE

## MORNING SESSION

9:30 Opening Social

### *AI, MACHINE LEARNING, DATA ANALYSIS*

9:45 Deep Learning-based Image Watermarking with Transform Invariant Representation Learning  
Student: Arjon Das  
Advisors: Dr. Xin Zhong

10:05 Using Deep Neural Network and Transformers to Extract Graphene Compounds and Properties Ayman  
Student: Ayman Ibn Jaman  
Advisor: Dr. Parvathi Chundi

10:25 Building Interpretable Methods For Identifying Bridge Maintenance Patterns  
Student: Akshay Kale  
Advisors: Dr. Brian Ricks, Dr. Robin Gandhi

10:45 Artificial-Intelligence-based Approaches for Estimating Irregular Walking Surface with Wearable Sensor  
Student: Ru Ng  
Advisors: Dr. Jong-Hoon Youn, Dr. Xin Zhong, Dr. Yunwoo Nam

### *PROGRAMMING LANGUAGES*

11:05 Alternative Semantics for Conditional Literals  
Student: Zach Hansen  
Advisor: Dr. Yuliya Lierler

11:25 Evaluation of System tExplain  
Student: Joel Sare  
Advisor: Dr. Yuliya Lierler

## LUNCH BREAK

11:45 Pizza Lunch

## AFTERNOON SESSION

### *INTELLIGENT NETWORK SYSTEMS*

12:20 Workload Prediction with Cost-aware Data Analytics System  
Student: Anshuman Das Mohapatra  
Advisor: Dr. Kwangsung Oh

12:40 New Approaches to Convex Polygon Formations  
Student: Rui Yang  
Advisor: Dr. Azad Azadmanesh

### *SOFTWARE ENGINEERING*

1:00 Automated Program Repair for API Misuse Vulnerabilities  
Student: Dip Kiran Pradhan Newar  
Advisor: Dr. Myoungkyu Song, Dr. Harvey Siy, Dr. Rui Zhao

### *VIRTULIZATION, SIMULATION*

1:20 Interactive Visualizations for Explanation in AI  
Student: Al Ashley Ramsey  
Advisor: Dr. Brian Ricks

1:40 Prediction of Balance Control and Instability in Walking at Sea  
Student: Jungyeon Choi  
Advisor: Dr. Jong-Hoon Youn

2:00 Closing Social

Presentation time: 20 minutes (15 Talk + 5 Q/A)