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Computer Science Graduate Research
Workshop

The 10th Annual Computer Science Graduate
Research Workshop (2022)

Apr 1st, 9:30 AM - 9:45 AM

Opening 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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Dr. Jon Youn - jyoun@unomaha.edu

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)