Computer Science Graduate Research Workshop

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

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

Closing Social

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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

10TH ANNUAL COMPUTER SCIENCE RESEARCH WORKSHOP

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
      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 iExplain
      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

VIRTUALIZATION, 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)