29th International Conference on

Software Engineering
and Data Engineering
(SEDE-2020)

PROGRAM

October 19, 2020

Virtual Conference Online

Sponsored by

International Society for
Computers and Their Applications

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Winona, MN 55987
Phone: (507) 458-4517; E-mail: isca@isca-hq.org; website: www.isca-hq.org
29th International Conference on
Software Engineering and Data Engineering
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SPONSOR

International Society for Computers and Their Applications (ISCA)

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Dr. Rui Wu, East Carolina University, Greenville, NC, USA

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Christoph Wunck  Emden/Leer University of Applied Sciences, Germany
Lei Yang  University of Nevada, Reno, USA
Feng Yu  Youngstown State University, USA
8:55 a.m. – 9:00 a.m. WELCOME By SEDE Organizers
Fred Harris, Alex Redei, and Rui Wu, SEDE Chairs

9:00 a.m. – 10:00 a.m. KEYNOTE SPEAKER

Dr. Haroon Stephen
Department of Civil and Environmental Engineering and Construction,
University of Nevada, Las Vegas, USA
“Challenges and Opportunities in Remote and In-situ Sensing:
A Data and Software Perspective”
Session Chair: Dr. Frederick C. Harris, Jr., University of Nevada, Reno, USA

10:00 a.m. – 10:05 a.m. 5 Minute Break

SESSION 1: SOFTWARE ENGINEERING I
Monday, October 19, 2020, 10:05 a.m. - 11:05 a.m.
Session Chair: Frederick C. Harris, Jr. (University of Nevada, Reno, USA)

1. Cloud Applications Adoption: User Study Survey From Industry and Academia
   Jalal Kiswani, Sergiu Dascalu and Frederick Harris

2. Controls and Novelty on Digital Platforms: Two Case Studies
   Onkar Malgonde and Alan Hevner

3. Cognitive Informatics in Emergency Disaster Management Systems
   Ajay Bandi and Aziz Fellah

11:05 a.m. – 11:10 a.m. 5 Minute Break

SESSION 2: DATA ENGINEERING I
Monday, October 19, 2020, 11:10 a.m. - 12:30 p.m.
Session Chair: Dr. Alex Redei (Central Michigan University, USA)

1. Detection of unknown galaxy types in large databases of galaxy image
   Venkata Siva Kumar Margapuri, Lior Shamir and Basant Thapa

2. Preprocessing Method Comparisons For VGG16 Fast-RCNN Pistol Detection
   Jiahao Li, Charles Ablan, Rui Wu, Shanyue Guan and Jason Yao

3. An O(nlogn/logw) Time Algorithm for Ridesharing
   Yijie Han and Chen Sun

4. A Blueprint for a Trustworthy Health Data Platform Encompassing IoT and Blockchain Technologies
   Dennis Przytarski, Christoph Stach, Clémentine Gritti and Bernhard Mitschang
12:30 p.m. – 12:45 p.m.  15 Minute Break

SESSION 3: SOFTWARE ENGINEERING II
Monday, October 19, 2020, 12:45 p.m. – 1:25 p.m.
Session Chair: Dr. Rui Wu (East Carolina University, USA)

1. Techniques for Using Virtual Reality Simulations for Self-Defense Skill Development
   John Apo and Alexander Redei

2. Chaotic Creations
   Christopher Lewis, Natalie Arnold, Leah Kramer, Terra Williams, Sergiu Dascalu and Fred Harris

1:25 p.m. – 1:30 p.m.  5 Minute Break

SESSION 4: DATA ENGINEERING II
Monday, October 19, 2020, 1:30 p.m. – 2:30 p.m.
Session Chair: Venkatasivakumar Margapuri (Kansas State University, USA)

1. A Project Tracking Tool for Scrum Projects with Machine Learning Support for Cost Estimation
   Kasi Periyasamy and Joshua Chianelli

2. Ameliorating Accuracy of a Map Navigation When Dealing with Different Altitude Traffics that Share Exact Geolocation
   Thitivatr Patanasakpinyo

3. Multi-Objective Regression Test Selection
   Yizhen Chen and Mei-Hwa Chen

2:30 p.m.  Best Paper Award Announcement