

30th International Conference on
**Software Engineering
and Data Engineering**
(SEDE-2021)

PROGRAM

October 11, 2021

Virtual Conference Online

Sponsored by



International Society for
Computers and Their Applications

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Winona, MN 55987

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30th International Conference on Software Engineering and Data Engineering (SEDE-2021)

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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Monday, October 11, 2021

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. Nic Herndon

Department of Computer Science,
East Carolina University, Greenville, USA

DATA SCIENCE TO MITIGATE GLOBAL WARMING EFFECTS

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 11, 2021, 10:05 a.m. - 11:05 p.m.

Session Chair: Frederick C. Harris, Jr. (University of Nevada, Reno, USA)

1. Translating a Large Software from C# to C++: An Experience Report

Edgar Gabriel, Nicholas Roos Biddle, Shane Tran Whitmire, and Allen Casey

2. Developing a Google Chrome Extension for Detecting Phishing Emails

Hongkai Chen and Mohammad Hossain

3. AnthroFace: Requirements, Design, and Implementation

Skylar Glock, Kealia Perrine, Henry Sturm, Gabrielle Talavera, Mari Trombley, Cortney Hulse, Kyra E. Stull, and Frederick C. Harris, Jr.

11:05 a.m. – 11:10 a.m.

5 Minute Break

Session 2:

DATA ENGINEERING I

Monday, October 11, 2021, 11:10 a.m. - 12:30 p.m.

Session Chair: Dr. Alex Redei (Central Michigan University, USA)

1. Implementation of BERT based machine learning model to extract cancer-miRNA relationship from research literature

Arunprasad Sundharam and Qin Ding

2. Separated Feature Learning for Music Composition Using Memory-Based Neural Networks

Imad Rahal, Ryan Strelow, Jeremy Iverson, and Katherine Mendel

3. Estimating Attention Level from Blinks and Head Movement

Masaaki Goto, Tetsuo Tanaka, and Kazunori Matsumoto

4. Model Checking Token-Based Mutual Inclusion and Mutual Exclusion Algorithms

Kai Zhao, Venkat Margapuri, and Mitchell Neilsen

12:30 p.m. – 12:45 p.m.

15 Minute Break

SESSION 3:**SOFTWARE ENGINEERING II**

Monday, October 11, 2021, 12:45 p.m. – 2:05 p.m.

Session Chair: Dr. Rui Wu (East Carolina University, USA)

1. VS-TAP: Veteran Services Tracking and Analytics Program

Jonathon Hewitt, Daniel Hall, Christopher Parks, Payton Knoch, Sergiu Dascalu, Devrin Lee, Nikkolas J. Irwin, and Frederick C Harris, Jr

2. Automated Generation of Stand-Alone Source Codes for Software Libraries

Lucas Machi, Henry L. Carscadden, Chris J. Kuhlman, Dustin Machi, and S. S. Ravi

3. DBKnot A Transparent and Seamless, Pluggable, Tamper Evident Database

Islam Khalil, Sherif El-Kassas, and Karim Sobh

4. Comparing Blockchain Platforms for Smart Contracts: A Preliminary Framework

Giuseppe A. Di Lucca, Maria Tortorella

2:05 p.m. – 2:10 p.m. 5 Minute Break**SESSION 4:****DATA ENGINEERING II**

Monday, October 11, 2021, 2:10 p.m. - 3:30 p.m.

Session Chair: ????

1. Automated Light System in Smart Home for Elderly and Disabled People Using Mosquitto Server

Paniti Netinant, Kawinna Sakornthai, and Meennapa Rukhiran

2. Using Virtual Reality and Machine Learning Techniques to Visualize the Human Spine

Lin Hall, Ping Wang, Grayson Blankenship, Emmanuel Zenil Lopez, Chris Castro, Zhen Zhu, and Rui Wu

3. Studying the COVID-19 Impact on the Antarctic Glacier Melting Rate

Mason Chen, and Charles Chen

4. Optimized Bootstrap Sampling for σ -AQP Error Estimation: A Pilot Study

Semih Cal, En Cheng, and Feng Yu

2:30 p.m. – 2:35 p.m. Best Paper Award Announcement**Note: All times are Pacific Daylight PDT**