30th International Conference on

Software Engineering

and Data Engineering

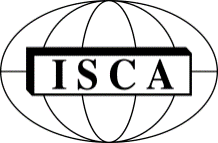
(SEDE-2021)

# PROGRAM

October 11, 2021

Virtual Conference Online

### Sponsored by



International Society for

Computers and Their Applications

278 Mankato Ave. #220

Winona, MN 55987

E-mail: isca@isca-hq.org; website: www.isca-hq.org **30th International Conference on**

Software Engineering and Data Engineering

(SEDE-2021)

**SPONSOR**

**International Society for Computers and Their Applications (ISCA)**

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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 Colorado**

**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

1. **Developing a Google Chrome Extension for Detecting Phishing Emails**

Hongkai Chen and Mohammad Hossain

1. **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

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

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

1. **Estimating Attention Level from Blinks and Head Movement**

Masaaki Goto, Tetsuo Tanaka, and Kazunori Matsumoto

1. **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

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

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

1. **DBKnot A Transparent and Seamless, Pluggable, Tamper Evident Database**

Islam Khalil, Sherif El-Kassas, and Karim Sobh

1. **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**

**DATA ENGINEERING II**

**SESSION 4:**

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

1. **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

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

Mason Chen, and Charles Chen

1. **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**