27th International Conference on

Software Engineering

and Data Engineering

(SEDE-2018)

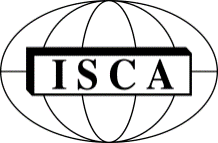
# PROGRAM

October 8-10, 2018

Holiday Inn Downtown Superdome

New Orleans, LA 70112, USA

### Sponsored by



International Society for

Computers and Their Applications

P. O. Box 1124

Winona, MN 55987

Phone: (507) 458-4517; E-mail: isca@isca-hq.org; website: www.isca-hq.org **27th International Conference on**

Software Engineering and Data Engineering

(SEDE-2018)

**SPONSOR**

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#### Monday, October 8, 2018\*

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**8:00 a.m. – 3:30 p.m. Registration, 8th Floor Lobby.**

**8:00 a.m. – 9:00 a.m. Coffee and Pastries, 8th Floor Lobby.**

**8:40 a.m. – 9:00 a.m. WELCOME, Room: Bayou Ballroom A, Floor 8**

**Gongzhu Hu,** **Yan Shi, and Takaati Goto, CAINE Chairs**

**Fred Harris, Sergiu Dascalu, and Sharad Sharma, SEDE Chairs**

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

**Dr. Qiang Zhu**

**Department of Computer and Information Science, University of Michigan – Dearborn, Dearborn, USA “Similarity Searches on Non-Ordered Discrete Data for Emerging Computer Applications: Why and How”**

**Location: Bayou Ballroom A, Floor 8**

**Session Chair: Dr. Takaaki Goto, Ryutsu Keizai University, Japan**

**10:00 a.m. – 10:30 a.m. COFFEE BREAK, 8th Floor Lobby.**

**SESSION 1:**

**Software Engineering I**

Monday, October 8, 10:30 a.m. - 12:00 p.m., Room: Bayou Ballroom B, Floor 8

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

1. **Sentiment Analysis of Software Bug Related Commit Messages**

Md Rakibul Islam and Minhaz F. Zibran (University of New Orleans)

1. **Generalized Software Interface for CHORDS**

Pattaphol Jirasessakul, Zachary Waller, Paul Marquis, Vinh Le, Connor Scully-Allison, Frederick C. Harris Jr., Sergiu Dascalu and Scotty Strachan (University of Nevada, Reno)

1. **Android Malware Detection Using Stacked Generalization**

Md. Shohel Rana, Charan Gudla and Andrew H. Sung (The University of Southern Mississippi)

1. **Building Evacuation Using Microsoft HoloLens**

James Stigall, Sri Teja Bodempudi, Sharad Sharma (Bowie State University), David Scribner, Jock Grynovicki and Peter Grazaitis (Army Research Laboratory)

**12:00 p.m. – 1:30 p.m. LUNCH BREAK ON YOUR OWN**

**Session 2:**

**DATA ENGINEERING I**

Monday, October 8, 1:30 p.m. – 3:00 p.m., Room: Bayou Ballroom B, Floor 8

Session Chair: Sharad Sharma (Bowie State University, USA)

1. **A Graph Database Approach for XACML Role-Based Access Control Implementation**

Arundhati Wahane and Ying Jin (California State University, Sacramento)

1. **An Online Approach for DNA Sequencing Error Correction via Disk Based Index**

Yarong Gu, Qiang Zhu and Sakti Pramanik (University of Michigan)

1. **Trust Issues in Cybersecurity and Autonomy**

Aakanksha Rastogi and Kendall Nygard (North Dakota State University)

1. **Testing Different Methods for Arbitrary 3D Point Selection in empty space**

Jacob Stanish and Bradford Towle Jr. (Florida Polytechnic University)

**3:00 p.m. – 3:30 p.m. COFFEE BREAK, 8th Floor Lobby.**

**SESSION 3:**

**Virtual Reality & SOFTWARE ENGINEERING**

Monday, October 8, 3:30 p.m. – 5:00 p.m., Room: Bayou Ballroom B, Floor 8

Session Chair: Kendall Nygard (North Dakota State University, USA)

1. **Let's VR: A Multiplayer Framework for Virtual Reality**

Kurt Andersen, Alex Hansen, Brittany Sievert, Jalal Kiswani, Sergiu Dascalu and Frederick C. Harris Jr. (University of Nevada, Reno)

1. **AssemblyVR: An Immersive Virtual Reality Environment for Concept Design**

James Stigall, Revanth Bhaskar and Sharad Sharma (Bowie State University)

1. **Simulating an Unknown Environment with an Integrated Physical and Virtual Space**

Esteban Segarra and Bradford Towle Jr. (Florida Polytechnic University)

1. **Evaluation of GTI modules based on usability and likeability**

Sarika Rajeev and Sharad Sharma (Bowie State University)

#### Tuesday, October 9, 2018\*

**8:00 a.m. – 3:30 p.m. REGISTRATION – 8th Floor Lobby.**

**8:00 a.m. – 9:00 a.m. Coffee, Tea and Pastries - 8th Floor Lobby.**

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

**Dr. Scotty Strachan**

**Office of Information Technology and College of Science, University of Nevada, Reno**

**"Cyberinfrastructure and the Critical Role of Engineering Partnerships for Science Discovery"**

**Location: Room: Bayou Ballroom A, Floor 8**

**Session Chair: Dr. Sergiu Dascalu, University of Nevada, Reno**

**10:00 a.m. – 10:30 a.m. COFFEE BREAK, 8th Floor Lobby.**

**SOFTWARE ENGINEERING II**

**SESSION 4:**

Tuesday, October 9, 10:30 a.m. - 12:00 p.m., Room: Bayou Ballroom B, Floor 8

Session Chair: Gahangir Hossain (Texas A&M University-Kingsville, USA)

1. **A Method for Handling Multi Axis Input for a Motion Based Flight Simulator**

Alex Redei and Sergiu Dascalu (University of Nevada, Reno)

1. **Towards an Efficient Just-In-Time Compiler**

Indraneel Golthi, Sruthi Ganesan Valli and Gahangir Hossain (Texas A&M University-Kingsville)

1. **Using Compiler to Build Strict Dependency Tool**

Varma Kutcharlapati, Divyakanth Koppolu, Gowthambaalaji Venkataraman and Gahangir Hossain (Texas A&M University-Kingsville)

1. **Overlay: An Educational Disc Covering Puzzle Game**

Ryan Devaney, Sanya Gupta, Vinh Le, Connor Scully-Allison, Frederick C. Harris Jr. and Sergiu Dascalu (University of Nevada, Reno)

12:00 p.m. – 1:30 p.m. CONFERENCE LUNCHEON

AND BEST PAPER AWARDS

LOCATION: Room: JAZZ/DIXIELAND

**DATA ENGINEERING II**

**SESSION 5:**

Tuesday, October 9, 1:30 p.m. – 3:00 p.m., Room: Bayou Ballroom B, Floor 8

Session Chair: Ajay Bandi (Northwest Missouri State University, USA)

1. **Data Mining in-IDE Activities: Why Software Developers Fail**

Naw Safrin Sattar, Md Abdul Motaleb Faysal, Minhaz Zibran, Shaikh Arifuzzaman and Md Rakibul Islam (University of New Orleans)

1. **Trusted Validity: Combating Fake News with Distributed Ledger Technology**

Lamar S. Taylor (Bowie State University)

1. **A Prototypical Reference Application of an IVIS4BigData Infrastructure supporting Anomaly Detection on Car-to-Cloud Data**

Marco X. Bornschlegl, Thoralf Reis and Matthias L. Hemmje (University of Hagen)

1. **Multilingual Extension of Dependency Parsing and Annotation**

H. M. Raine Ahmed, Rushil Thakkar and Gahangir Hossain (Texas A&M University-Kingsville)

**3:00 p.m. – 3:30 p.m. COFFEE BREAK, 8th Floor Lobby.**

**SESSION 6:**

SOFTWARE ENGINEERING III

Tuesday, October 9, 3:30 p.m. – 5:00 p.m., Room: Bayou Ballroom B, Floor 8

Session Chair: K. Vidyasankar (Memorial University of Newfoundland, Canada)

1. **An Empirical Study of the Relationships between Code Readability and Software Complexity**

Duaa Alawad, Manisha Panta, Minhaz Zibran and Md Rakibul Islam (University of New Orleans)

1. **Mobile Usability Testing: Gathering Evidence for Designing User Interfaces for Emergency Disaster Management Systems**

Ajay Bandi, Abdelaziz Fellah, Harish Bondalapati and Mark Corson (Northwest Missouri State University)

1. **A Mechanism for Secure Delivery of Bare Machine Computing Software**

Robert G. Eyer, Ramesh K. Karne and Alexander L. Wijesinha (Towson University)

1. **Privacy Awareness on Social Media through Gamification**

Kambiz Ghazinour, Ken Messner (Kent State University), Grant Myers (Brown University), Sean Scarnecchia and David Selinger (Kent State University)

#### Wednesday, October 10, 2018\*

**8:00 a.m. – 11:00 a.m. REGISTRATION – 8th Floor Lobby.**

**8:00 a.m. – 9:00 a.m. Coffee, Tea and Pastries - 8th Floor Lobby.**

**SESSION 7:**

SOFTWARE ENGINEERING IV

Wednesday, October 10,8:30 am–10:00 am, Room: Bayou Ballroom B, Floor 8

Session Chair: Maria Tortorella (University of Sannio, Italy)

1. **The Instability of Software Projects: The Role of Private and Public Components**

Lerina Aversano and Maria Tortorella (University of Sannio)

1. **Atomicity of Executions in Fog Computing Architectures**

Krishnamurthy Vidyasankar (Memorial University of Newfoundland)

1. **Simulating a Passenger Awareness System for an Autonomous Car with an Augmented Reality Device**

Bradford Towle Jr. and Nigel Williams (Florida Polytechnic University)

**10:00 a.m. – 10:30 a.m. COFFEE BREAK, 8th Floor Lobby.**