27th International Conference on
Software Engineering
and Data Engineering
(SEDE-2018)

PROGRAM

October 8-10, 2018

Holiday Inn New Orleans Downtown Superdome
New Orleans, LA 70112, USA

Sponsored by

International Society for
Computers and Their Applications

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27th International Conference on
Software Engineering and Data Engineering
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SPONSOR
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Lei Yang  University of Nevada, Reno, USA
Sunday, October 7, 2018

4:00 — 7:00 p.m.  Pre-Conference Registration, 8th Floor Lobby.

Monday, October 8, 2018

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 Takaaki Goto, CAINE Chairs
Fred Harris, Sergiu Dascalu, and Sharad Sharma, SEDE Chairs

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

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 2, 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)

2. 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)

3. Android Malware Detection Using Stacked Generalization
Md. Shohel Rana, Charan Gudla and Andrew H. Sung (The University of Southern Mississippi)

4. 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
1. **A Graph Database Approach for XACML Role-Based Access Control Implementation**
   Arundhati Wahane and Ying Jin (California State University, Sacramento)

2. **An Online Approach for DNA Sequencing Error Correction via Disk Based Index**
   Yarong Gu, Qiang Zhu and Sakti Pramanik (University of Michigan)

3. **Trust Issues in Cybersecurity and Autonomy**
   Aakanksha Rastogi and Kendall Nygard (North Dakota State University)

4. **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.**

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**VIRTUAL REALITY & SOFTWARE ENGINEERING**

Monday, October 2, 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)

2. **AssemblyVR: An Immersive Virtual Reality Environment for Concept Design**
   James Stigall, Revanth Bhaskar and Sharad Sharma (Bowie State University)

3. **Simulating an Unknown Environment with an Integrated Physical and Virtual Space**
   Esteban Segarra and Bradford Towle Jr. (Florida Polytechnic University)

4. **Evaluation of GTI modules based on usability and likeability**
   Sarika Rajeev and Sharad Sharma (Bowie State University)
8:00 a.m. – 4:00 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  
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)

2. Towards an Efficient Just-In-Time Compiler  
   Indraneel Golthi, Sruthi Ganesan Valli and Gahangir Hossain (Texas A&M University-Kingsville)

3. Using Compiler to Build Strict Dependency Tool  
   Varma Kutcharlapati, Divyakanth Koppolu, Gowthambaalaji Venkataraman and Gahangir Hossain (Texas A&M University-Kingsville)

4. 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
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)

2. Trusted Validity: Combating Fake News with Distributed Ledger Technology  
   Lamar S. Taylor (Bowie State University)

3. 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)

4. 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.

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

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

3. A Mechanism for Secure Delivery of Bare Machine Computing Software  
   Robert G. Eyer, Ramesh K. Karne and Alexander L. Wijesinha (Towson University)

4. 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)
8:00 a.m. – 4:00 p.m.  REGISTRATION – 8th Floor Lobby.
8:00 a.m. – 9:00 a.m.  Coffee, Tea and Pastries - 8th Floor Lobby.

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)

2. Atomicity of Executions in Fog Computing Architectures
   Krishnamurthy Vidyasankar (Memorial University of Newfoundland)

3. 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.