

Schedule Booklet

*6th Annual Conf. on
Computational Science &
Computational Intelligence*

CSCI

December

05-07

2019

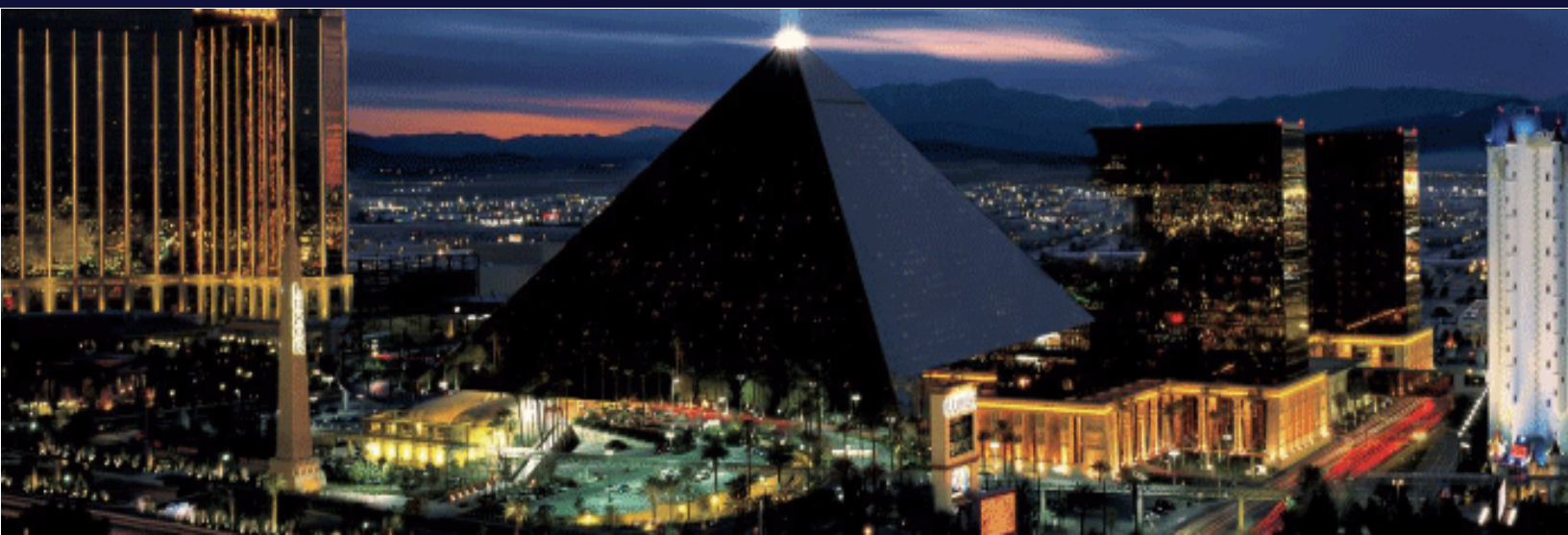
Las Vegas | Nevada | USA

Editors

Hamid R. Arabnia

Leonidas Deligiannidis, Fernando G. Tinetti

Quoc-Nam Tran



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CSCI 2019 CONFERENCE SCHEDULE

The 2019 International Conference on Computational Science and Computational Intelligence

<https://americancse.org/events/csci2019>

December 05 - 07, 2019

Luxor (an MGM Resorts International), 3900 Las Vegas Blvd South,
Las Vegas, Nevada 89119, USA

Note that the title of presentations and authors' names that appear in the schedule below were extracted from the papers that were submitted to the EVALUATION web site. The official published proceedings/book will have any and all changes/revisions that authors may have done to the title and/or authors lists in the final version of their manuscripts.

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CSCI 2019 CONFERENCE SCHEDULE

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Las Vegas, Nevada 89119, USA

December 04

04:00 - 07:00pm: REGISTRATION
(LOCATION: Lotus Ballroom 1)

December 05

7:00am - 5:00pm: REGISTRATION
(LOCATION: Lotus Ballroom 1)

08:30 - 08:50am: OPENING REMARKS - December 05, 2019, Thursday:
CSCI 2019 Steering Committee representative,
Prof. Hamid R. Arabnia
Department of Computer Science, University of Georgia, USA;
Editor-in-Chief, The Journal of Supercomputing (Springer);
Editor, Transactions of Computational Science & Computational
Intelligence (Springer)
(LOCATION: Galleria B-C)

DECEMBER 05, 2019

THERE ARE THREE SETS OF CONCURRENT SESSIONS FOR THE REST OF December 05, 2019;
SCHEDULED IN CONFERENCE ROOMS: Galleria A, Galleria B, and Galleria C with
Poster Session in Lotus Ballroom 1.

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria A - DECEMBER 05 <-----

- SESSION 1A:** SYMPOSIUM ON ARTIFICIAL INTELLIGENCE (CSCI-ISAI) +
 SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (CSCI-ISCI) +
 SYMPOSIUM ON COMPUTATIONAL SCIENCE (CSCI-ISCS)
 Co-Chairs: Prof. Pablo Rivas* and Prof. Soon J. Hyun**
 *School of Computer Science and Mathematics,
 Marist College, Poughkeepsie, New York, USA;
 **School of Computing, KAIST, Korea
 December 05, 2019 (Thursday); 09:00am - 10:20am
 (LOCATION: Galleria A)
- 09:00 - 09:20am: A Multi-Objective Optimal Reconfiguration of Electrical
 Networks to Improve Power Quality Aspects
 S. Garcia-Martinez, E. Espinosa-Juarez, C. Perez-Rojas
 Faculty of Electrical Engineering, Universidad Michoacana
 de San Nicolas de Hidalgo, Morelia, Mich., Mexico
- 09:20 - 09:40am: Fractional High Frequency Cosine and Sine Higher Order Neural
 Network for Economics
 Chenrui Hu, Ming Zhang
 Department of Physics, Computer Science and Engineering,
 Christopher Newport University, Virginia, USA
- 09:40 - 10:00am: On Parameter Tuning in Meta-learning for Computer Vision
 Farid Ghareh Mohammadi, M. Hadi Amini, Hamid R. Arabnia
 Department of Computer Science, University of Georgia,
 Georgia, USA; School of Computing and Information Sciences,
 (Solid Lab), Florida International University, Miami, USA
- 10:00 - 10:20am: Embedded or Integrated, Autonomous Intelligent Monitoring
 Architecture and Framework for Training Assistance and
 Automation
 Jeffrey W. Wallace*, Angelica M. Valdivia
 Rocket Technology Systems LLC, Washington, DC, USA
- 10:20 - 10:40am: **BREAK (LOCATION: Lotus Ballroom 1)**
- SESSION 2A:** SYMPOSIUM ON ARTIFICIAL INTELLIGENCE (CSCI-ISAI)
 Co-Chairs: Prof. Eamon P. Doherty* and Prof. M. Hadi Amini**
 *School of Administrative Science, Fairleigh
 Dickinson University, New Jersey, USA;
 **Solid Lab, School of Computing and Information
 Sciences, Florida International University,
 Miami, Florida, USA
 December 05, 2019 (Thursday); 10:40am - 12:00pm
 (LOCATION: Galleria A)
- 10:40 - 11:00am: Temporal 3D Human Pose Estimation for Action Recognition
 from Arbitrary Viewpoints
 Mohamed Adel Musallam, Renato Baptista, Kassem Al Ismaeil,
 and Djamila Aouada
 Interdisciplinary Center for Security, Reliability & Trust,
 University of Luxembourg, Luxembourg
- 11:00 - 11:20am: Empirical Study of Sentence Embeddings for English Sentences
 Quality Assessment
 Pablo Rivas, Marcus Zimmermann
 Department of Computer Science, School of Computer Science
 & Mathematics, Marist College, Poughkeepsie, New York, USA

- 11:20 - 11:40am: Who is the Father of Deep Learning?
Charles C. Tappert
School of CSIS, Pace University, Pleasantville, New York, USA
- 11:40 - 12:00pm: An Extended Idea about Decision Trees
Feng-Jen Yang
CS Department, Florida Polytechnic University, USA
- 12:00 - 12:40pm: LUNCH (On Your Own)
- SESSION 3A: SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-ISCW) + SYMPOSIUM ON INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-ISOT)**
Co-Chairs: Prof. L. Deligiannidis* & Dr. Kazi Zunnurhain**
*Department of Computer Science & Networking,
Wentworth Institute of Technology, Boston,
Massachusetts, USA;
**Department of Computer Science, Kean University,
New Jersey, USA
December 05, 2019 (Thursday); 12:40pm - 03:20pm
(LOCATION: Galleria A)
- 12:40 - 01:00pm: Machine Learning for Malware Detection using APT1 Dataset with String and PE Header Features
Neil Balram, George Hsieh*, Christian McFall
Computer Science, Norfolk State University, Virginia, USA
- 01:00 - 01:20pm: Maintaining Data Integrity in Fog Computing Based Critical Infrastructure Systems
Abdulwahab Alazeb, Brajendra Panda
Department of Computer Science and Computer Engineering,
University of Arkansas, Fayetteville, Arkansas, USA
- 01:20 - 01:40pm: A Prevention and a Traction System for Ransomware Attacks
Murat Ozer, Said Varlioglu, Bilal Gonen, Mehmet F. Bastug
School of Information Technology, University of Cincinnati,
Cincinnati, Ohio, USA; Department of Interdisciplinary
Studies, Lakehead University, Orillia, Ontario, Canada
- 01:40 - 02:00pm: Plunge into the Underworld: A survey on Emergence of Darknet
Victor Adewopo, Bilal Gonen, Said Varlioglu, Murat Ozer
School of Information Technology, University of Cincinnati,
Cincinnati, Ohio, USA
- 02:00 - 02:20pm: Empirical Study of Real-time Hypervisors for Industrial Systems
Asmaa Tellabi, Christoph Ruland
Framatome GmbH, Germany; University of Siegen, Erlangen;
University of Siegen, Siegen, Germany
- 02:20 - 02:40pm: A Statistical Analysis Framework for Detecting Insider Threat Activities on Cyber Systems
Scott Findley, Gurminder Singh, Alan Shaffer
Computer Science Department, Naval Postgraduate School,
Monterey, California, USA
- 02:40 - 03:00pm: Effective Methods to Monitor IT Infrastructure Security for Small Business
Haydar Teymourlouei, Vareva E. Harris
Department of Technology & Security, Bowie State University,
Bowie, Maryland, USA; School of Advanced Studies,
University of Phoenix, Arizona, USA

- 03:00 - 03:20pm: Towards Security and Privacy of SCADA Systems through Decentralized Architecture
Abel O. Gomez Rivera, Deepak K. Tosh*
Department of CS, University of Texas at El Paso, Texas, USA
- 03:20 - 03:40pm: POSTER session 1-CSCI
December 05, 2019 (Thursday)
Refreshments will be available.
List of Poster Papers appears at the end of Dec. 05 schedule
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- SESSION 4A: SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-ISCW) + SYMPOSIUM ON MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-ISMIC)
Co-Chairs: Dr. Pankaj Kamthan* and Prof. L. Deligiannidis**
*Department of Computer Science & Software Engineering, Concordia University, Canada;
**Department of Computer Science & Networking, Wentworth Institute of Technology, Boston, Massachusetts, USA
December 05, 2019 (Thursday); 03:40pm - 06:40pm
(LOCATION: Galleria A)
- 03:40 - 04:00pm: Practical Cyber Security Training Exercises
Luay A. Wahsheh, Biruk Mekonnen
Department of Computer and Information Science,
Arkansas Tech University, Russellville, Arkansas, USA
- 04:00 - 04:20pm: High-Fidelity Virtualization for Cyber Operations
Corey Ingraham, Alan Shaffer, Gurminder Singh
Computer Science Department, Naval Postgraduate School,
Monterey, California, USA
- 04:20 - 04:40pm: EXCON Teams in Cyber Security Training
Grethe Ostby, Kieren Nicolas Lovell, Basel Katt
Department for Information Security and Communication Technology, NTNU, Norway;
CERT Department, TalTech, Tallin, Estonia
- 04:40 - 05:00pm: Implementation of MQTT Native Application for Tizen-based Smartwatches
Esad Kadusic, Christoph Ruland, Natasa Zivic, Aldin Masovic
Directorate for Tech. and Service Dev. BH Telecom, Sarajevo, BiH, Bosnia and Herzegovina; Faculty of Electrical Engineering, University of Sarajevo, Sarajevo, BiH, Bosnia and Herzegovina; Institute for Data Communication Systems, University of Siegen, Siegen, Germany
- 05:00 - 05:20pm: Digital Radio Mondiale App Development
Soon Suck Jarng, Youjung Kwon, Dongsoo Jarng
R&D Institute AlgorKorea Co. Ltd. Las Vegas, Nevada, USA
- 05:20 - 05:40pm: On the Relevance of IT Security in TDL
Tobias Eggendorfer, Volker Eiseler
Faculty of Computer Science and Electrical Engineering, Ravensburg-Weingarten University, Germany; Research Institute CODE, Bundeswehr University Munich, Neubiberg, Germany

- 05:40 - 06:00pm: On Software Projects in Academia and Industry from a Perspective of Software Engineering Education
Pankaj Kamthan, Nazlie Shahmir
Department of Computer Science and Software Engineering,
Concordia University, Montreal, Canada;
Canadian Pacific Railway Limited, Calgary, Canada
- 06:00 - 06:20pm: Spartanshield: A Layered Defense Against Malvertising
Joshua Rolon, Cheryl Hinds, Felicia Doswell*
Computer Science Department, Norfolk State University,
Norfolk, Virginia, USA
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Ben Goodwin, Patryk Szewczyk
Edith Cowan University, Australia
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Co-Chairs: Patrick Philipp* and Daniel Chang**
*Karlsruhe Institute of Technology KIT,
Karlsruhe, Germany;
**Cal State University, Los Angeles,
California, USA
December 05, 2019 (Thursday); 09:00am - 10:40am
(LOCATION: Galleria B)
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Hyun-A Park
Medical Science of Department, KyungDong University,
WonJu-City, KangWon-Province, South Korea
- 09:20 - 09:40am: Diagnosing Heart Disease Types from Chest X-Rays using a Deep Learning Approach
Roosbeh Sadeghian, Siamak Aram, Stanley Nwoji, and
Iheb Abdellatif
Data Analytics, Harrisburg University of Science and
Technology, Pennsylvania, USA; Information System Eng.
and Management, Harrisburg University of Science and
Technology, Pennsylvania, USA
- 09:40 - 10:00am: Anastomoses in Visceral Surgery First Approach Towards an Universal Transluminal System for Micro Invasive Application
Jana Steger, Stefanie Ficht, Daniel Ostler,
Hubertus Feussner, Petra Mela, Markus Eblenkamp, Dirk Wilhelm
Minimally Invasive Interdisziplinäre Therapeutische
Intervention (MITI), Klinikum rechts der Isar of Technical
University of Munich, Germany; Medical Materials & Implants,
TUM Department of Mechanical Engineering, Technical
University of Munich, Germany; Clinic and Polyclinic for
Surgery, Faculty of Medicine, Klinikum rechts der Isar of
Technical University of Munich, Germany

- 10:00 - 10:20am: Challenges for a Flexible e-Health Future: Framework and Platform for Continuous Development
Linda Askenas, Jaime Campos, Jan Aidemark
Linnaeus University, Sweden
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Patrick Philipp, Silvia Becker, Sebastian Robert, Dirk Hempel, and Juergen Beyerer
Vision and Fusion Laboratory IES, Karlsruhe Institute of Technology KIT, Karlsruhe, Germany; Fraunhofer Institute of Optronics, System Technologies and Image Exploitation IOSB, Fraunhofer Center for Machine Learning, Karlsruhe, Germany; Steinbeis-Transfer-Institut Klinische Haematoonkologie, Donauwoerth, Germany
- SESSION 6B: SYMPOSIUM ON HEALTH INFORMATICS & MEDICAL SYSTEMS (CSCI-ISHI) + SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-ISPC)**
Co-Chairs: Prof. Sung-won Park*, Daniel Chang**, and Jonathan Fowler***
*Texas A&M University - Kingsville, Texas, USA;
**Cal State University, Los Angeles, California, USA;
***Colorado Technical University, USA
December 05, 2019 (Thursday); 10:40am - 12:40pm
(LOCATION: Galleria B)
- 10:40 - 11:00am: Evaluation of Dental Image Augmentation for the Severity Assessment Of Periodontal Disease
Yusuke Moriyama, Chonho Lee, Susumu Date, Yoichiro Kashiwagi, Yuki Narukawa, Kazunori Nozaki, Shinya Murakami
Graduate School of Information Science and Technology, Osaka University, Japan; Cybermedia Center, Osaka University, Japan; Graduate School of Dentistry, Osaka University, Japan; Osaka University Dental Hospital, Japan
- 11:00 - 11:20am: Characterizing and Quantifying Diagnostic (Un)Certainty in Medical Reports Through Natural Language Processing
Yilan Dong, Kathleen Isenegger, Jacob Furst, Daniela Raciuc, and Mengyuan Shang
Department of Computer Science, Grinnell College, Iowa, USA; Department of Computer Science, Amherst College, Massachusetts, USA; School of Computing, DePaul University, Chicago, Illinois, USA
- 11:20 - 11:40am: Comparison of Pre-trained vs Domain-specific Convolutional Neural Networks for Classification of Interstitial Lung Disease
Jorge Bautista Martinez, Gurman Gill
Department of Computer Science, Sonoma State University, Rohnert Park, California, USA
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Alissa Jell, Christina Kuttler, Norbert Hueser, Jana Steger, and Hubertus Feussner
Department of Surgery, Klinikum rechts der Isar, Medical faculty, Technical University of Munich, Germany; Mathematical Modelling, Mathematics faculty, Technical University of Munich, Germany

- 12:00 - 12:20pm: A Study to Use a Low-Cost Brainwave Sensor to Detect the Dementia
Atsushi Ito, Alicia Lina Zhu
Info. System Science, Utsunomiya University, Utsunomiya, Tochigi, Japan; Mission San Jose High School, Fremont, California, USA
- 12:20 - 12:40pm: Correcting Timing Mismatch of Interleaved ADCs Using DCT
Sung-Won Park*, Taesic Kim
Department of Electrical Engineering & Computer Science, Texas A&M University-Kingsville, Texas, USA
- SESSION 7B: SYMPOSIUM ON SOFTWARE ENGINEERING (CSCI-ISSE)**
Co-Chairs: Prof. George Dimitoglou* & Prof. Robert G. Reynolds**
*Department of Computer Science & IT, Hood College, Frederick, Maryland, USA;
**Department of Computer Science, Wayne State University, Detroit, Michigan, USA
December 05, 2019 (Thursday); 01:00pm - 03:00pm
(LOCATION: Galleria B)
- 01:00 - 01:20pm: A LabVIEW Metamodel for Automated Analysis
Saheed Popoola, Jeff Gray
Department of Computer Science, University of Alabama, Tuscaloosa, Alabama, USA
- 01:20 - 01:40pm: A Survey on Usability and Performance Evaluation in Virtual Reality Systems
Ananth N. Ramasari Chandra, Fatima El Jamiy, Hassan Reza
School of Electrical Engineering and Computer Science, University of North Dakota, Grand Forks, North Dakota, USA
- 01:40 - 02:00pm: Distributed Agent-Based Big Data Network for Secure E-Mobility TCO Analysis: A Use Case for Multi Agent Systems in Logistics Environment
Marianne Mauch, Clemens Eifrig, Philipp Kahn, Alexander Koch, Steffen Klute, Johannes Kretzschmar, Thomas Oppolzer, Volkmar Schau, Wilhelm Rossak
Department of Computer Science, Friedrich Schiller University Jena, Jena, Germany
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Rosa Navarrete, Lorena Recalde, Carlos Montenegro, and Sergio Lujan-Mora
Department of Informatics and Computer Science, Escuela Politecnica Nacional Quito, Ecuador; Department of Software & Computing Systems, University of Alicante, Alicante, Spain
- 02:20 - 02:40pm: Engaging Technologies to Change Social Behaviours: Use of the "you are free of" technique to social donation requests on websites
Laura Deleant, Valerie Fointiat, Christian Bastien
Department of Psychology (PERSEUS Lab), Universite de Lorraine, Metz, France; Department of Psychology (LPS Lab), Aix Marseille University, Aix-en-provence, France

- 02:40 - 03:00pm: Slack's Knowledge Classification Mechanism for Architectural Knowledge Condensation
Gilberto Borrego, Guillermo Salazar-Lugo, Mario Parra, and Ramon Palacio
Computation and Design Department, Technologic Institute of Sonora, Mexico;
Navojoa Unit, Technologic Institute of Sonora, Mexico
- 03:00 - 03:40pm: **POSTER session 1-CSCI**
December 05, 2019 (Thursday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 05 schedule
(LOCATION: Lotus Ballroom 1)
- SESSION 8B:** **SYMPOSIUM ON EDUCATION (CSCI-ISED) +**
 SYMPOSIUM ON SOFTWARE ENGINEERING (CSCI-ISSE)
Co-Chairs: Dr. Katriina Heljakka* & Prof. BM Esiefarienne**
 *University of Turku, Finland;
 **Computer Science Department,
 North West University, South Africa
December 05, 2019 (Thursday); 03:40pm - 06:20pm
(LOCATION: Galleria B)
- 03:40 - 04:00pm: Gamified Coding: Toy Robots and Playful Learning in Early Education
Katriina Heljakka, Pirita Ihamaki, Pauliina Tuomi, and Petri Saarikoski
University of Turku, Finland;; Prizztech Ltd., Finland;
Tampere University, Finland
- 04:00 - 04:20pm: A Clean Approach to Flutter Development through the Flutter Clean Architecture Package
Shady Boukhary, Eduardo Colmenares
Department of Computer Science, Midwestern State University,
Wichita Falls, Texas, USA
- 04:20 - 04:40pm: Correlation Between Students Participation Rate in Forum Discussions and Their Performance in University Online Courses
Sahar Voghoei, Navid Hashemi Tonekaboni, Delaram Yazdansepas, James M. Byars, Jason G. Wallace, Hamid R. Arabnia
Department of Computer Science, University of Georgia, Athens, Georgia, USA; Carl Vinson Institute of Government, University of Georgia, Athens, Georgia, USA; Department of Crop and Soil Science, University of Georgia, Athens, Georgia, USA
- 04:40 - 05:00pm: Framework and Tools for Undergraduates Designing RISC-V Processors on an FPGA in Computer Architecture Education
Peter Jamieson, Tyler McGrew, Eric Schonauer
Department of Electrical and Computer Engineering,
Miami University, Oxford, Ohio, USA
- 05:00 - 05:20pm: An Example of Project Based Learning to Advance Women's Interest in STEM Education and Robotics
Eamon Doherty, Paulette Laubsch, Elly Goei
School of Administrative Science, Fairleigh Dickinson University, New Jersey, USA; School of Public and Global Affairs, Fairleigh Dickinson University, New Jersey, USA

- 05:20 - 05:40pm: Does S-STEM Pay? A return on investment analysis
Ron Coleman
Computing Technology Department, Marist College,
Poughkeepsie, New York, USA
- 05:40 - 06:00pm: A Case Study on What Undergrads can Learn in the HPC World
on Their Own - A Look at OpenMP, MPI, OpenCL, and Hardware
Description Languages
Peter Jamieson, Martin Herbordt, Michel Kinsy
Department of Electrical and Computer Engineering,
Miami University, Oxford, Ohio, USA; Department of
ECE, Boston University, MA, USA
- 06:00 - 06:20pm: Increasing Student Interests in Power Engineering by 3dsMax
and Unity3D
Sixuan Duan, Yao Xu, Ying Luo, Zhipeng Huang
Department of Electrical and Computer Engineering,
Purdue University Northwest, Hammond, USA; Department of
Computer Information Technology and Graphics,
Purdue University Northwest, Hammond, USA; Department of
Electrical Engineering and Computer Science,
Toledo University, Ohio, USA
- 06:20 - 08:00pm: **Any Late Papers and/or Informal Participant-driven Panel
Discussions**

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria C - DECEMBER 05 <-----

- SESSION 9C: SYMPOSIUM ON COMPUTATIONAL SCIENCE (CSCI-ISCS) +
SYMPOSIUM ON PARALLEL & DISTRIBUTED COMPUTING (CSCI-ISPD)
Co-Chairs: Prof. Janos Vegh* and Dr. Kai Wang**
*Kalimanos BT Debrecen, Hungary;
**Department of Computer Science, Georgia Southern
University, Georgia, USA
December 05, 2019 (Thursday); 09:00am - 10:20am
(LOCATION: Galleria C)**
- 09:00 - 09:20am: An Improved Algorithm for Counting Graphical Degree
Sequences of Given Length
Kai Wang
Department of Computer Science, Georgia Southern University,
Statesboro, Georgia, USA
- 09:20 - 09:40am: Sensitivity Analysis of Internal Erosion Models for Dam Safety
Mitchell L. Neilsen, Chendi Cao
Department of Computer Science, Kansas State University,
Manhattan, Kansas, USA
- 09:40 - 10:00am: Assurance of Accuracy in Floating-Point Calculations - A
Software Model Study
Alan A. Jorgensen, Andrew C. Masters, Ratan K. Guha
True North Floating Point, Nevada, USA;
Department of CS, University of Central Florida, USA
- 10:00 - 10:20am: Heterogenous Computing for Markov Models in Big Data
Mihaela Malita, George-Vladut Popescu, Gheorghe M. Stefan
CS Department, Saint Anselm College, Manchester,
New Hampshire, USA; Electronic Devices, Circ. and Arch.
Department, Politehnica University of Bucharest, Romania

10:20 - 10:40am: BREAK (LOCATION: Lotus Ballroom 1)

**SESSION 10C: SYMPOSIUM ON COMPUTATIONAL SCIENCE (CSCI-ISCS) +
SYMPOSIUM ON PARALLEL & DISTRIBUTED COMPUTING (CSCI-ISPD) +
SYMPOSIUM ON CLOUD COMPUTING & DATA CENTERS (CSCI-ISCC)**
Co-Chairs: Prof. Ron Coleman* and Prof. Janos Vegh**
*Computing Technology Department, Marist College,
Poughkeepsie, New York, USA;
**Kalimanos BT Debrecen, Hungary
December 05, 2019 (Thursday); 10:40am - 12:00pm
(LOCATION: Galleria C)

**10:40 - 11:00am: Study, Analysis, and Acceleration of an N-Body Simulation
Under Many-Core Environments Using an Object Oriented
Approach**
Shady Boukhary, Eduardo Colmenares
Department of Computer Science, Midwestern State University,
Wichita Falls, Texas, USA

11:00 - 11:20am: The Skeleton of Hyperbolic Graphs for Greedy Navigation
Jozsef J. Biro, Andras Gulyas, Zalan Heszberger
Department of Telecommunications and Media Informatics,
Budapest University of Technology and Economics, Hungary

**11:20 - 11:40am: Load Balancing in Cloud Computing Using Genetic Algorithm
and Fuzzy Theory**
Ali Saadat, Ellips Masehian*
Department of Data Management, Yeni TelCo Bilgi Teknolojileri
A. S., Istanbul, Turkey; Industrial and Manufacturing
Engineering Department, California State Polytechnic
University, Pomona, California, USA

**11:40 - 12:00pm: Quantum Computing and Deep Learning Working Together to
Solve Optimization Problems**
Istvan Barabasi, Charles C. Tappert, Daniel Evans, and
Avery M. Leider
Seidenberg School of CSIS, Computer Science Department,
Pace University, Pleasantville, New York, USA

12:00 - 01:00pm: LUNCH (On Your Own)

- SESSION 11C: SYMPOSIUM ON BIG DATA & DATA SCIENCE (CSCI-ISBD) + SYMPOSIUM ON SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-ISNA)**
Co-Chairs: Dr. Matthew Spradling*, Sahar Voghoei, and Jonathan Fowler*****
***University of Michigan - Flint, Michigan, USA;**
****Department of Computer Science, University of Georgia, Georgia, USA;**
*****Colorado Technical University, USA**
December 05, 2019 (Thursday); 01:00pm - 03:20pm
(LOCATION: Galleria C)
- 01:00 - 01:20pm: Applied Machine Learning: A Creation of Sustainable Development Progress Index Based on Circular Economy
 Yi Ling Chang, Yuan-Yuan Lee
 School of Social Science, Policy & Evaluation,
 Claremont Graduate University, California, USA
- 01:20 - 01:40pm: Uncovering Los Angeles Tourists' Patterns Using Geospatial Analysis and Supervised Machine Learning with Random Forest Predictors
 Yuan-Yuan Lee, Yi Ling Chang
 School of Social Science, Policy & Evaluation,
 Claremont Graduate University, Claremont, California, USA
- 01:40 - 02:00pm: A Hybrid Method for Text-based Sentiment Analysis
 Thanh Le
 School of Business Information Technology, University of
 Economics, Ho Chi Minh City, Vietnam
- 02:00 - 02:20pm: Demystifying Transportation using Big Data Analytics: A Chicago Case Study
 Fletcher Trueblood, David Rodriguez, Jese Hernandez,
 Michelle Salomon, Sanjay Soundarajan, Matin Pirouz
 Department of Computer Science, California State University,
 Fresno Fresno, California, USA
- 02:20 - 02:40pm: Augmented Reality for Big Data Visualization: A Review
 Ananth N. Ramaseri Chandra, Fatima El Jamiy, Hassan Reza
 School of Electrical Engineering and Computer Science,
 University of North Dakota, Grand Forks, North Dakota, USA
- 02:40 - 03:00pm: Incorporating Association Patterns into Manifold Clustering for Enabling Predictive Analytics
 Bon K. Sy, Jin Chen, Rebecca Horowitz
 SIPPA Solutions, Queens, New York, USA; Graduate Center,
 City University of New York, New York, New York, USA; Queens
 College, City University of New York, Queens, New York, USA
- 03:00 - 03:20pm: Manually Classified Real and Fake News Articles
 Nicholas Snell, William Fleck, Terry Traylor, Jeremy Straub*
 Department of Computer Science, North Dakota State
 University, Fargo, North Dakota, USA;
 United States Marine Corps, Fargo, North Dakota, USA

- SESSION 12C: SYMPOSIUM ON COMPUTATIONAL SCIENCE (CSCI-ISCS) + SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (CSCI-CI) + SYMPOSIUM ON INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-ISOT) + SYMPOSIUM ON CLOUD COMPUTING & DATA CENTERS (CSCI-ISCC)**
 Co-Chairs: Daniel Chang* and Omofolahunmi (Fola) Olagbemi**
 *Cal State University, Los Angeles, CA, USA;
 **Computer Science Department, Western Michigan University, Kalamazoo, Michigan, USA
 December 05, 2019 (Thursday); 03:20pm - 06:40pm
 (LOCATION: Galleria C)
- 03:20 - 03:40pm: Bayes Theorem Extends to Overlapping Hypotheses
 Bart Kosko
 Department of Electrical and Computer Engineering, University of Southern California, Los Angeles, California, USA
- 03:40 - 04:00pm: Converting Neural Networks to Rule Foam
 Akash Kumar Panda, Bart Kosko*
 Signal & Image Processing Institute, Department of Electrical and Computer Engineering, University of Southern California, Los Angeles, California, USA
- 04:00 - 04:20pm: Application of the Analytic Hierarchy Process to Plant Operation Optimization
 Victoria Kuserbaeva, Nianjun Zhou
 IBM Global Business Services, Calgary, AB, Canada;
 IBM Watson Research Center, Yorktown Height, New York, USA
- 04:20 - 04:40pm: Distributed Sensing Using Smart End-user Devices: Pathway to Federated Learning for Autonomous IoT
 Ahmed Imteaj, M. Hadi Amini
 School of Computing and Information Sciences, College of Engineering and Computing, Sustainability, Optimization, and Learning for InterDependent Networks Laboratory (Solid Lab), Florida International University, Miami, Florida, USA
- 04:40 - 05:00pm: SenGen: A Two-Phase Dynamic Simulation and Toolbox of an Indoor Mobile Wireless Sensor Network for Sensor Monitoring and Dataset Generation
 Ahlam Mallak, Akash Sonnad, Madjid Fathi
 Institute of Knowledge-Based Systems & Knowledge Management, University of Siegen, Siegen, Germany;
 Mechatronics, University of Siegen, Siegen, Germany
- 05:00 - 05:20pm: Economic Dispatch for Power System with Short-Term Solar Power Forecast
 E. Espinosa Juarez, Jorge Luis Solano-Gallegos, and Fernando Ornelas-Tellez
 Faculty of Electrical Engineering, Universidad Michoacana de San Nicolas de Hidalgo, Mexico
- 05:20 - 05:40pm: Agnostic Approach for Microservices Autoscaling in Cloud Applications
 Abeer Abdel Khaleq, Ilkyeun Ra
 Department of Computer Science and Engineering, University of Colorado Denver, Colorado, USA
- 05:40 - 06:00pm: Pigeon: A Dynamic and Efficient Serverless and FaaS Framework for Private Cloud
 Wei Ling, Lin Ma, Chen Tian
 Futurewei Technologies. Santa Clara, California, USA

- 06:00 - 06:20pm: An Electronic Date Market in Saudi Arabia: A Mathematical Model and Simulation
Saad Nasser Almutwa*, Sungchul Hong
Computer and Information Sciences Department,
Towson University, Towson, Maryland, USA
- 06:20 - 06:40pm: A Holistic Abstraction to Ensure Trusted Scaling and Memory Speed Trusted Analytics
Muhammed Akif AGCA
Computer Engineering Department, TOBB University of
Economics and Technology (ETU), Ankara, Turkey
- 06:40 - 08:00pm: Any Late Papers and/or Informal Participant-driven Panel Discussions

LIST OF PAPERS IN POSTER SESSIONS 1-CSCI

03:00 - 03:40pm: December 05, 2019 (Thursday)

Refreshments will be available.

(LOCATION: Lotus Ballroom 1)

0. CrossConnect: A Cross Registration Tool
Andrew Corsi, Edgar Romero, Mira Yun, and
Leonidas Deligiannidis
Department of Computer Science and Networking, Wentworth
Institute of Technology, Boston, Massachusetts, USA
0. Development and Implementation of Smart Healthcare Bidet
Sunghil Heo, Suyong Jeong, JunDong Lee, Hwan-Seog Kim
Industry-Academic Cooperation Foundation,
Gangneung-Wonju National University, Wonju-si, Korea;
Dept of Nursing, Gangneung-Wonju National University,
Wonju-si, Korea; Dept of Multimedia Engineering,
Gangneung-Wonju National University, Wonju-si, Korea;
Dept of Information & Telecomn Eng., Gangneung-Wonju
National University, Wonju-si, Korea
0. Combined Genetic Programming & Neural Network Approaches
to Electronic Modeling
Louis Zhang, Qijun Zhang
Carleton University, Ottawa, Ontario, Canada
0. A Computational System to Support Fully Automated Mark-
Recapture Studies of Ants
Carey Yoon, Frank Madrid, Mari West, Eamonn Keogh
Martin Luther King High School, Riverside, USD, USA;
Department of Computer Science & Engineering, University
of California, Riverside, California, USA; Department
of Entomology, University of California, Riverside, USA
0. Simulating Cyberattacks with a Petri Net Discrete Event
Simulator
C. Daniel Colvett, Mikel D. Petty, John A. Bland, and
Kenneth R. Baker
The University of Alabama in Huntsville, Alabama, USA
0. Classifying DNS Servers based on Response Message Matrix
using Machine Learning
Keiichi Shima, Ryo Nakamura, Kazuya Okada,
Tomohiro Ishihara, Daisuke Miyamoto, Yuji Sekiya
IIJ Innovation Institute, Inc., Tokyo, Japan;
The University of Tokyo, Tokyo, Japan

0. Development of Intelligent Digital Signage System using Deep Learning Algorithm
Sang-Heon Lee, Myoung-Kyu Sohn, Hyunduk Kim
Division of Future Automotive Research, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Daegu, Korea
0. Emotional Painterly Rendering Reflecting User'S Feeling
Junghyun Lee, Sanghyun Seo, Kyunghyun Yoon
Department of Computer Science & Engineering, Chung-Ang University, Seoul, Korea; School of computer art, Chung-Ang University, Anseong, Korea
0. Auto-classification of Government Department-specific News Articles
Sae-Mi Lee, Seung-Eui Ryu, Soon-Jae Ahn
Smart Governance Research Center, Dong-A University, Busan, Korea
0. Analysis of Local Assembly Decision-making Process Using Facet LSTM Model
Tai-Hun Lee, Na-Rang Kim, Hyun-Jong Kim
Smart Governance Research Center, Dong-A University, Busan, Korea
0. Virtual Machines with Dedicated Graphics for Software Development
Cesar Lucas*, Jacob Woten
Combat Capabilities Development Command, Ground Vehicle Systems Center (CCDC GVSC), US Army, USA
0. The New Cardiac Diagnostic Prediction Applied to a Designed Holter
Leonardo Juan Ramirez Lopez, Y. Javier Rodriguez
Universidad Militar Nueva Granada, Research Group TIGUM, Bogota, Colombia; Research Center of the Country Clinic. Bogota, Colombia
0. Pacejka Magic Formula Tire Model Parser
Sara Boyle
United States Army Combat Capabilities Development Center (CCDC) Ground Vehicle Systems Center (GVSC), Analytical Development and Data Science, Warren, Michigan, USA
0. ...

- 7:00am - 5:00pm: **REGISTRATION**
(LOCATION: Lotus Ballroom 1)
- 08:45 - 08:55am: **INTRODUCTION OF KEYNOTE SPEAKER**
Prof. Hamid R. Arabnia
Department of Computer Science, University of Georgia, USA;
December 06, 2019 (Friday)
(LOCATION: Galleria B-C)
- 09:00 - 09:50am: **CSCI 2019 KEYNOTE LECTURE:**
EXPLORATIONS IN ARTIFICIAL INTELLIGENCE: A PERSONAL JOURNEY
Dr. Ram D. Sriram, Ph.D.
Fellow: IEEE, ASME, AAAS & Chief, Software & Systems Division
Information Technology Laboratory,
National Institute of Standards and Technology, Maryland, USA
December 06, 2019 (Friday)
(LOCATION: Galleria B-C)

DECEMBER 06, 2019

THERE ARE THREE SETS OF CONCURRENT SESSIONS ON December 06, 2019; SCHEDULED
IN CONFERENCE ROOMS: Galleria A, Galleria B, and Galleria C with Poster
Session in Lotus Ballroom 1.

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria A - DECEMBER 06 <-----

- 10:00 - 10:20am: **BREAK** (LOCATION: Lotus Ballroom 1)
- SESSION 13A: SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY**
(CSCI-ISCW)
Co-Chairs: Kieren Nicolas Lovell* & Warren Cabral**
*LT CDR RNorN RTD, Head of CERT, Tallinn University
of Technology, Estonia & King's & Pembroke College,
University of Cambridge (Defence Academy), UK
**Cyber Security Co-operative Research Centre,
Edith Cowan University, Australia
December 06, 2019 (Friday); 10:20am - 12:20pm
(LOCATION: Galleria A)
- 10:20 - 10:40am: **Data Integrity in Policy-Based Attribute Access Control in
Social Network**
Katanosh Morovat, Brajendra Panda
Department of Mathematics & Computer Science, Western
Carolina University, USA; Department of CS & CE, University
of Arkansas, Fayetteville, Arkansas, USA
- 10:40 - 11:00am: **Cyber Attacks for Sale**
Per Hakon Meland, Guttorm Sindre
Norwegian University of Science and Technology, Norway;
SINTEF Digital, Norway
- 11:00 - 11:20am: **DRONESCAPE: Distributed Rapid On-site NETwork Self-deploying
Cellular Advanced Phone Environment**
Daryl G. Johnson, William R. Stackpole
Computing Security Department, Rochester Institute of
Technology, Rochester, New York, USA

- 11:20 - 11:40am: Modeling the Operational Phasing of APT Attacks
Aimad Berady, Valerie Viet Triem Tong, Gilles Guette,
Christophe Bidan, Guillaume Carat
CIDRE Team, CentraleSupélec, University of Rennes, Inria,
CNRS, IRISA, Rennes, France
- 11:40 - 12:00pm: Constructions and Attacks on Hash Functions
Zeyad Al-Odat, Samee U. Khan
North Dakota State University, Fargo, North Dakota, USA;
National Science Foundation, USA
- 12:00 - 12:20pm: A Comparison of Machine Learning Algorithms in Keystroke
Dynamics
Jonathan Graham, Kwesi Elliot, Yusef Yassin, Trenton Ward,
Johan Caldwell, Tawab Attie
Department of Computer Science, Norfolk State University,
Norfolk, Virginia, USA; Department of Computer Science,
Polytechnic University of Puerto Rico, Puerto Rico;
Department of Computer Science, North Carolina State
University, North Carolina, USA; College of Engineering,
Prairie View A&M University, Texas, USA
- 12:20 - 01:00pm: LUNCH (On Your Own)
- SESSION 14A: SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY
(CSCI-ISCW) + SYMPOSIUM ON SIGNAL & IMAGE PROCESSING,
COMPUTER VISION & PATTERN RECOGNITION (CSCI-ISPC)**
Co-Chairs: Dr. Zeyad A Al-Odat* and Kieren Nicolas Lovell**
*Department of ECE, North Dakota State University,
Fargo, North Dakota, USA;
**LT CDR RNorN RTD, Head of CERT, Tallinn University
of Technology, Estonia & King's & Pembroke College,
University of Cambridge (Defence Academy), UK
December 06, 2019 (Friday); 01:00pm - 03:20pm
(LOCATION: Galleria A)
- 01:00 - 01:20pm: PAVSS: A Privacy Assessment Scoring System
Zackary Foreman, Thomas Bekman, Thomas Augustine, and
Jafar Haadi Jafarian
University of Colorado, Denver, Colorado, USA
- 01:20 - 01:40pm: A Survey on Web Security Issues
Tek Dhital, Bilal Gonen
School of Information Technology, University of Cincinnati,
Cincinnati, Ohio, USA
- 01:40 - 02:00pm: Evaluation of Attack Vectors and Risks in Automobiles and
Road Infrastructure
John N. Brewer III, George Dimitoglou
Department of Computer Science & Information Technology,
Hood College, Frederick, Maryland, USA
- 02:00 - 02:20pm: Cyber Security Strategy for Nuclear Power Plant through
Vital Digital Assets
Seungmin Kim, Seonuk Kim, Sangwoo Kim, Kook-Huei Kwon,
and Ki-Haeng Nam
Korea Institute of Nuclear Nonproliferation and Control
(KINAC), Daejeon, Republic of Korea

- 02:20 - 02:40pm: Application of Data Science within the Army Intelligence Warfighting Function: Problem Summary and Key Findings
Robert Ganger, John Coles, Jacob Ekstrum, Timothy Hanratty, Eric Heilman, Jason Boslaugh, Zachary Kendrick
CUBRC, Buffalo, New York, USA; US Army Research Laboratory, Adelphi, Maryland, USA; US Army Intelligence Center of Excellence, Ft. Huachuca, Arizona, USA
- 02:40 - 03:00pm: Radial Basis Function Network: Its Robustness and Ability to Mitigate Adversarial Examples
Jules Chenou, George Hsieh, Tonya L. Fields
Department of Computer Science, Norfolk State University, Norfolk, Virginia, USA
- 03:00 - 03:20pm: Development of a Facial Feature Based Image Steganography Technology
Pranay Marella, Jeremy Straub*, Benjamin Bernard
Department of CSE, Mississippi State University, Starkville, Mississippi, USA; Department of CS, North Dakota State University, Fargo, North Dakota, USA
- 03:20 - 03:40pm: **POSTER session 2-CSCI**
December 06, 2019 (Friday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 06 schedule
(LOCATION: Lotus Ballroom 1)
- SESSION 15A:** **SYMPOSIUM ON ARTIFICIAL INTELLIGENCE (CSCI-ISAI) + SYMPOSIUM ON SMART CITIES & SMART MOBILITY (CSCI-ISSC)**
Co-Chairs: Soheyla Amirian*, Chrisogonas O. Odhiambo, and Dr. Nikolaos Loukeris*****
***Department of Computer Science, University of Georgia, Georgia, USA;**
****Department of Computer Science & Engineering, University of South Carolina, Columbia, USA;**
*****Athens University of Business and Economics, Athens, Greece**
December 06, 2019 (Friday); 03:40pm - 06:40pm
(LOCATION: Galleria A)
- 03:40 - 04:00pm: Comparison of Complex Behavior via Event Sequences
Robert E. Wray, Joshua Haley, Robert Bridgman, Austin Brehob
Soar Technology, Inc., Ann Arbor, Michigan, USA
- 04:00 - 04:20pm: Case-Based Reasoning for Summarizing Simulation Results
Neil C. Rowe, Charles E. Knight
Computer Science Department, U.S. Naval Postgraduate School, Monterey, California, USA
- 04:20 - 04:40pm: Self Organized Features Maps SOFM and Hybrid Neuro-genetic SOFMs in Optimal Portfolio Management
N. Loukeris, G. Chalamandaris, I. Eleftheriadis
Department of Accounting & Finance, Athens University of Economics & Business, Athens, Greece; Department of Business Administration, University of Macedonia, Thessaloniki, Greece
- 04:40 - 05:00pm: Online Detection of Map Discrepancies in Landmark-Based Robotic Localization
Dylan Schwesinger
Computer Science, Kutztown University, Pennsylvania, USA

- 05:00 - 05:20pm: Temperature Prediction Based on Long Short Term Memory Networks
Heng Wu, Shaofei Lu, Armando Lopez-Aeamburo, Jingke She
Department of Mathematics & Computer Science, West Virginia State University Institute, West Virginia, USA;
College of Computer Science & Electronic Engineering, Hunan University, Changsha, Hunan, P. R. China; Department of CS, Oklahoma State University, Stillwater, USA
- 05:20 - 05:40pm: Application-Agnostic Chatbot Deployment Considerations: A Case Study
Chelsi Chelsi, Nishit Nishit, Laharika Ravula, Pablo Rivas
Department of Computer Science, School of Computer Science & Mathematics, Marist College, Poughkeepsie, New York, USA
- 05:40 - 06:00pm: Acoustic and Visual Approaches to Adversarial Text Generation for Google Perspective
Stephan Brown, Petar Milkov, Sameep Patel, Yi Zen Looi, Edwin Jain, Ziqian Dong, Huanying Gu, N. Sertac Artan
College of Engineering and Computing Sciences, New York Institute of Technology, New York, USA; Department of CS, Tufts University, Medford, Massachusetts, USA
- 06:00 - 06:20pm: Gender and Age Classification Based on Human Features to Detect Illicit Activity in Suspicious Sites
Edgar A. Torres, Sergio L. Granizo, Myriam Hernandez-Alvarez
Departamento de Informatica y Ciencias de la Computacion, DICC, Escuela Politecnica Nacional Quito, Ecuador
- 06:20 - 06:40pm: Vehicle Collision Avoidance System Using Localization Algorithm and Predictive Analysis
Samuel Nduso John, Etinosa Noma-Osaghae, Kennedy Okokpujie*, Chinonso Okereke, Ananaba Joshua, Osemwegie Omoruyi
Department of Electrical and Electronic Engineering, Nigeria Defence Academy, Kaduna State, Nigeria;
Department of Electrical and Information Engineering, Covenant University, Ota, Ogun State, Nigeria
- 06:40 - 07:20pm: Any Late Papers and/or Informal Participant-driven Panel Discussions
- 07:30 - 09:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
December 06, 2019 (Friday); 07:30pm - 09:30pm
(LOCATION: Lotus Ballrooms 2 & 3)

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria B - DECEMBER 06 <-----

- 10:00 - 10:20am: BREAK (LOCATION: Lotus Ballroom 1)
- SESSION 16B: SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION
& PATTERN RECOGNITION (CSCI-ISPC)
Co-Chairs: Prof. Mehrube "Ruby" Mehrubeoglu*,
Dr. Lifford McLauchlan**
* Texas A&M University - Corpus Christi, Texas, USA;
**Texas A&M University - Kingsville, Texas, USA
December 06, 2019 (Friday); 10:20am - 12:20pm
(LOCATION: Galleria B)
- 10:20 - 10:40am: Content-Adaptive U-Net Architecture for Medical Image
Segmentation
Ahmed Mostayed, William G. Wee
Multimedia and Augmented Reality Lab, Department of EE & CS,
University of Cincinnati, Cincinnati, USA
- 10:40 - 11:00am: Extending a Soft-Core RISC-V Processor to Accelerate CNN
Inference
Ross Porter, Sam Morgan, Morteza Biglari-Abhari
Department of Electrical, Computer & Software Engineering,
University of Auckland, Auckland, New Zealand
- 11:00 - 11:20am: Characterization of Irregularly-shaped Objects Using 3D
Structured Light Scanning
Adam Hennad, Patricia Cockett, Lifford McLauchlan, and
Mehrube Mehrubeoglu
National Instruments, Austin, Texas, USA; Coastal & Marine
Systems Science Program, Texas A&M University - Corpus
Christi, Texas, USA; Department of EE & CS, Texas A&M
University - Kingsville, Texas, USA; Department of Eng.,
Texas A&M University - Corpus Christi, Texas, USA
- 11:20 - 11:40am: Programming the NAO Robot to Play a Human-Robot
Interactive Game
Cen Li, Ebosehon Imeokparia, Michael Ketzner, Tsega Tsahai
Department of Computer Science, Middle Tennessee State
University, Murfreesboro, Tennessee, USA
- 11:40 - 12:00pm: A Parallel LSTM-based Missing Body Feature Point Completion
in Video Frames
Satoshi Yamanaka, Chonho Lee, Susumu Date
Graduate School of Information Science and Technology,
Osaka University, Osaka, Japan;
Cybermedia Center, Osaka University, Osaka, Japan
- 12:00 - 12:20pm: A Proximal Algorithm for Estimating the Regularized
Wavelet-based Density-Difference
Nenad Mijatovic, Rana Haber, Georgios Anagnostopoulos,
Anthony O. Smith, Adrian M. Peter
Florida Institute of Technology, Melbourne, Florida, USA

- SESSION 17B: SYMPOSIUM ON EDUCATION (CSCI-ISED) + SYMPOSIUM ON SOFTWARE ENGINEERING (CSCI-ISSE)**
Co-Chairs: Dr. Arnon Hershkovitz* and Carol V. Gonzalez
***Tel Aviv University, Tel Aviv, Israel;**
****Department of Computer Science, Lehman College CUNY, New York, USA**
December 06, 2019 (Friday); 12:20pm - 03:20pm
(LOCATION: Galleria B)
- 12:20 - 12:40pm: When Can We Start to Predict Defects?
Lamees Alhazzaa, Anneliese Amschler Andrews
Computer Science Department, Al-Imam Muhammad Bin Saud
Islamic University, Riyadh, Saudi Arabia; Department of
CS, University of Denver, Denver, Colorado, USA
- 12:40 - 01:00pm: Building a Business Data Analytics Graduate Certificate
Svetlozar Nestorov, Mary Malliaris, Nenad Jukic
Quinlan School of Business, Loyola University Chicago,
Chicago, Illinois, USA
- 01:00 - 01:20pm: Full-Time Professors Versus Part-Time Professors; Who's
Students Get Better Grades in Computer Literacy Courses? A
Case Study
Nathan Barker, Laurie Harris
Computer Science & Information Systems Department,
Southern Utah University, Cedar City, Utah, USA
- 01:20 - 01:40pm: Experience Report on an Undergraduate Project in Distributed
Systems
Omar Abdelwahab, Jared Bance, Christopher Behan, B. Bowden,
Sebastian Crites, Arshdeep Dhillon, Eric Dimond,
Ian Eliopoulos, Alexandria Fawcett, Micheal Friesen,
Nayem Hossain, Kurtis Jantzen, Aidan Kelly, David Kenny,
Kayleigh Kernaghan, Sunah Kim, Brenton Kruger, Anton Lysov,
Siyuan Ma, Bryan McGregor, Levi Meston, Richard Pham,
Quan Anh Phan, Zia Rehman, Mitchell Sawatzky, Peter Schulze,
Stuart Seguin, Rebecca Senger, Patrick Settle,
Yehonatan Shabash, Masroor Syed, Mehnaz Tarannum,
Colin Thompson, Saurabh Tomar, Kevin Unarce, Joel van Egmond,
Michael Verwaayen, Steven Vogelaar, Aaron Williamson,
Selena Yu, Mehrdad Jafari Giv, Jalal Kawash
Department of CS, University of Calgary, Alberta, Canada
- 01:40 - 02:00pm: Teaching Methods in a Health and Social Informatics Master
Program
Berglind F. Smaradottir, Martin W. Gerdes
Department of ICT, University of Agder, Grimstad, Norway
- 02:00 - 02:20pm: Computational Thinking Education: Who Let the Dog Out?
Samat Swaid, Taima Suid
Department of CS, Philander Smith College, Little Rock,
Arkansas, USA; Department of CS, University of Arkansas at
Little Rock, Arkansas, USA
- 02:20 - 02:40pm: A Computer Scientist Teaches Gen Ed Math
Victor Winter, Betty Love, Michelle Friend, Michael Matthews
Department of CS, University of Nebraska-Omaha, USA;
Department of Mathematics, University of Nebraska-Omaha, USA;
Department of Teacher Edu., University of Nebraska-Omaha, USA

- 02:40 - 03:00pm: Can an Algorithm Prepare Students to Tasks without Knowing What the Tasks Are?
Arnon HersHKovitz*, Odelia Tzayada, Orit Ezra, Anat Cohen, Michal Tabch, Ben Levy, Avi Segal, and Kobi Gal
School of Education, Tel Aviv University, Tel Aviv, Israel;
Faculty of Engineering Sciences, Ben-Gurion University at the Negev, Beer Sheva, Israel
- 03:00 - 03:20pm: A Survey of Degree Auditing Systems
Srivalli Dingari, Nihar R. Mahapatra*
Department of Electrical and Computer Engineering,
Michigan State University, East Lansing, Michigan, USA
- 03:20 - 03:40pm: **POSTER session 2-CSCI**
December 06, 2019 (Friday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 06 schedule
(LOCATION: Lotus Ballroom 1)
- SESSION 18B:** **SYMPOSIUM ON HEALTH INFORMATICS & MEDICAL SYSTEMS**
(CSCI-ISHI) + SYMPOSIUM ON COMPUTATIONAL BIOLOGY (CSCI-ISCB)
+ SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION &
PATTERN RECOGNITION (CSCI-ISPC)
Co-Chairs: Prof. Ann Leslie Claesson-Vert* and
Prof. Lihong Connie Li**
***School of Nursing, Northern Arizona University,**
North Valley Campus, Phoenix, Arizona, USA;
****Department of Engineering & Environmental Science,**
College of Staten Island of City University of
New York, USA
December 06, 2019 (Friday); 03:40pm - 06:40pm
(LOCATION: Galleria B)
- 03:40 - 04:00pm: Auto-CNNp: Automating CNN Parallelism with Components
SouLaimane Guedria, Noel De Palma, Felix Renard, and
Nicolas Vuillerme
Univ. Grenoble Alpes, CNRS, Grenoble, France; Univ.
Grenoble Alpes, AGEIS EA, Faculte de Medecine, Tronche,
France; Institut Universitaire de France, Paris, France
- 04:00 - 04:20pm: Automated Analysis of Femoral Artery Calcification Using
Machine Learning Techniques
Liang Zhao, Brendan Odigwe, Susan Lessner, Daniel G. Clair,
Firas Mussa, Homayoun Valafar
CSE, University of South Carolina, Columbia, USA;
Cell Biology & Anatomy, University of South Carolina,
Columbia, USA; University of South Carolina School of
Medicine Surgery, Columbia, South Carolina, USA
- 04:20 - 04:40pm: Functional Annotations of Novel Cancer-associated lncRNAs
Identified Using Machine Learning Algorithms
L. D. Mora, O. Azofeifa, J. A. Guevara-Coto
Escuela de Ciencias de la Computacion e Informatica,
Universidad de Costa Rica, San Jose, Costa Rica
- 04:40 - 05:00pm: Heart Diseases Image Classification Based on Convolutional
Neural Network
Keita Saito, Yanjun Zhao, Jiling Zhong
Department of CS, Troy University, Troy, Alabama, USA

- 05:00 - 05:20pm: Segmentation and Volumetric Analysis of Colon Wall for Detection of Flat Polyp Candidates via CT Colonography
Lihong C. Li, Xinzhou Wei, Kenneth Ng, Anushka Banerjee, Huafeng Wang, Wenfeng Song, Zhengrong Liang
Department of Engineering & Environmental Science, City University of New York, CSI, Staten Island, USA; Electrical & Telecommunications Engineering Technology, New York City College of Technology, Brooklyn, New York, USA; Department of Radiology, Stony Brook University, Stony Brook, New York, USA; School of Software Engineering, Beihang University, Beijing, P. R. China; Department of Radiology and Biomedical Eng., Stony Brook University, New York, USA
- 05:20 - 05:40pm: Risk Prediction of Critical Vital Signs for ICU Patients Using Recurrent Neural Network
Daniel R. Chang, David R. Chang, Mohammad Pourhomayoun
Computer Science Department, California State University, Los Angeles, California, USA; Division of Nephrology, Department of Internal Medicine, China Medical University Hospital and College of Medicine, China Medical University, Taichung, Taiwan
- 05:40 - 06:00pm: Indoor Electronic Traveling Aids for Visually Impaired: Systemic Review
Darius Plikynas, Arunas Zvironas, Marius Gudauskis
Vilnius Gediminas Technical University, Lithuania
- 06:00 - 06:20pm: Wavelet-Based Machine Learning Algorithms to Enhance Cardiovascular Disease Diagnosis
Rafaela Kottou, Veronica Pegkou Christofi
Mathematics Department, Western Connecticut State University, Danbury, Connecticut, USA
- 06:20 - 06:40pm: Local Hierarchical Classification Techniques Analysis Using Attribute Selection for Protein Function Prediction
Leonardo Henrique Pereira*, Carlos Nascimento Silla Junior, and Julio Cesar Nievola
PPGIa, Pontifical Catholic Univ. of Parana, Curitiba, Brazil
- 06:20 - 08:00pm: **Any Late Papers and/or Informal Participant-driven Panel Discussions**
- 07:30 - 09:30pm: **CONFERENCE RECEPTION DINNER / SOCIAL**
December 06, 2019 (Friday); 07:30pm - 09:30pm
(LOCATION: Lotus Ballrooms 2 & 3)

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria C - DECEMBER 06 <-----

10:00 - 10:20am: BREAK (LOCATION: Lotus Ballroom 1)

SESSION 19C: SYMPOSIUM ON PARALLEL & DISTRIBUTED COMPUTING (CSCI-ISPD) +
 SYMPOSIUM ON COMPUTATIONAL SCIENCE (CSCI-ISCS) +
 SYMPOSIUM ON CLOUD COMPUTING & DATA CENTERS (CSCI-ISCC)
 Co-Chairs: Dr. Sakir Yucel* and Dr. Bilal Gonen**
 *NetApp, Wexford, PA, USA;
 **School of Information Technology, University of
 Cincinnati, Cincinnati, Ohio, USA
 December 06, 2019 (Friday); 10:20am - 01:00pm
 (LOCATION: Galleria C)

10:20 - 10:40am: Algorithmic Framework for QoS and TE in Virtual SDN Services
 Sakir Yucel
 NetApp, Wexford, PA, USA

10:40 - 11:00am: Thermal-Aware Power Capping Allocation Model for High
 Performance Computing Systems
 Kishwar Ahmed, Kazutomo Yoshii, Samia Tasnim
 University of South Carolina Beaufort, South Carolina, USA;
 Florida International University, Miami, Florida, USA;
 Argonne National Laboratory, Lemont, Illinois, USA

11:00 - 11:20am: The Need for Modern Computing Paradigm: Science Applied
 to Computing
 Janos Vegh, Alin Tisan
 Kalimanos BT Debrecen, Hungary;
 Department of Electronic Engineering, Royal Holloway,
 University of London, UK

11:20 - 11:40am: Scalable Algorithms for Multivariate Integration with
 ParAdapt and CUDA
 Omofolahunmi Olagbemi, Elise de Doncker
 Computer Science Department, Western Michigan University,
 Kalamazoo, Michigan, USA

11:40 - 12:00pm: QoS Management and Traffic Engineering for Virtual SDN
 Services
 Sakir Yucel
 NetApp, Wexford, PA, USA

12:00 - 12:20pm: Causes of Misleading Statistics and Research Results
 Irreproducibility: A Concise Review
 Farzan Shenavarmasouleh, Hamid R. Arabnia
 Department of CS, University of Georgia, USA

12:20 - 12:40pm: An Electronic Date Market with Sellers' Consortium in
 Saudi Arabia: A Mathematical Model and Simulation
 Saad Nasser Almutwa*, Sungchul Hong
 Computer and Information Sciences Department,
 Towson University, Towson, Maryland, USA

12:40 - 01:00pm: Vulnerability Scanning with GCP
 Nicholas J. Mitchell, Kazi Zunnurhain
 School of Computer Science, Kean University, Union, New Jersey, USA

- SESSION 20C: SYMPOSIUM ON BIG DATA & DATA SCIENCE (CSCI-ISBD) + SYMPOSIUM ON SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-ISNA)**
Co-Chairs: Dr. Kishwar Ahmed* and Farzan Shenavarmasouleh**
***University of South Carolina Beaufort, USA;**
****University of Georgia, Athens, Georgia, USA**
December 06, 2019 (Friday); 01:00pm - 03:00pm
(LOCATION: Galleria C)
- 01:00 - 01:20pm: Unsupervised Multi-Label Document Classification for Large Taxonomies Using Word Embeddings
 Stefan Hirschmeier, Johannes Melsbach, Detlef Schoder, and Sven Stahlmann
 Cologne Institute for Information Systems,
 University of Cologne, Cologne, Germany
- 01:20 - 01:40pm: Big Data and Simulation to Analyze Higher Education Sustainable Development
 Anatoly Kurkovsky
 University System of Georgia, Georgia Gwinnett College,
 Greater Atlanta, Georgia, USA
- 01:40 - 02:00pm: DataFed: Towards Reproducible Research via Federated Data Management
 Dale Stansberry, Suhas Somnath, Jessica Breet,
 Gregory Shutt, and Mallikarjun Shankar
 National Center for Computational Sciences,
 Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA
- 02:00 - 02:20pm: Applying Data Science Methods for Predicting Student Retention
 Cen Li, Qiang Wu, John Wallin, Michael Hains
 Department of CS, Middle Tennessee State University,
 Murfreesboro, USA; Department of Mathematics, Middle
 Tennessee State University, Murfreesboro, USA; Department
 of Physics & Astronomy, Middle Tennessee State University,
 Murfreesboro, USA; Department of Psychology, Middle
 Tennessee State University, Murfreesboro, Tennessee, USA
- 02:20 - 02:40pm: Misinformation Correction Across Social Media Platforms
 Wenqing Zhao
 The Edward R. Murrow College of Communication,
 Washington State University, Pullman, Washington, USA
- 02:40 - 03:00pm: Complete Merkle Hash Trees for Large Dynamic Spatial Data
 Naresh Adhikari, Naila Bushra, Mahalingam Ramkumar
 Department of Computer Science and Engineering,
 Mississippi State University, Mississippi, USA
- 03:00 - 03:20pm: **POSTER session 2-CSCI**
December 06, 2019 (Friday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 06 schedule
(LOCATION: Lotus Ballroom 1)

- SESSION 21C: SYMPOSIUM ON INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-ISOT) + SYMPOSIUM ON SMART CITIES & SMART MOBILITY (CSCI-ISSC)**
Co-Chairs: Dr. Nenad Mijatovic* and Omofolakunmi (Fola) Olagbemi**
***Alstom Signaling LLC, USA;**
****Computer Science Department, Western Michigan University, Kalamazoo, Michigan, USA**
December 06, 2019 (Friday); 03:20pm - 06:40pm
(LOCATION: Galleria C)
- 03:20 - 03:40pm: Composition of Things in the Internet of Things
 Naseem Ibrahim
 School of Engineering, The Behrend College, The Pennsylvania State University, Erie, Pennsylvania, USA
- 03:40 - 04:00pm: Oysters' Gape Measurement System
 A. Ali, K. Ali, A. Ukpebor, M. Hasan, J. Addy, and A. Abu-El Humos
 Rooster Teeth Inc., USA; Department of Computer Science, Jackson State University, Mississippi, USA
- 04:00 - 04:20pm: IoT Sensing and Control Network for Pico-Hydroelectric in the Nepal Himalayas
 James Hsi-Jen Yeh, Mark Stambaugh, Alex Zahnd, Kyle Yeh
 Department of Engineering and Computer Science, Azusa Pacific University, California, USA; RIDS-USA, USA; RIDS-Switzerland, Switzerland; WVUSD
- 04:20 - 04:40pm: Sensor Integration with ZigBee Inside a Connected Home with a Local and Open Sourced Framework: Use Cases and Example Implementation
 Demian Hartmann
 Institute of Applied Informatics and Formal Description Methods (AIFB), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
- 04:40 - 05:00pm: Industrial Internet of Things: Device Management Architecture Proposal
 Ralf Luis de Moura, Tiago Monteiro Brasil, Alexandre Gonzalez, Luciana de Landa Ceotto, Luiz Paulo Barreto, and Ludmilla Bassini Werner
 Operational Tech. Architecture, Vale S.A., Vitoria, Brazil; Operational Tech. Architecture, Vale S.A., Belo Horizonte, Brazil; Enterprise Architecture, Vale S.A., Rio de Janeiro, Brazil
- 05:00 - 05:20pm: Path Planning Algorithm to Enable Low Altitude Delivery Drones at the City Scale
 Amrita Chatterjee, Hassan Reza
 School of Electrical Engineering and Computer Science, University of North Dakota, Grand Forks, North Dakota, USA
- 05:20 - 05:40pm: IoT Enabled Falsework Monitoring System for Construction Safety Enhancement
 R. C. Y. Lam, L. C. H. Lam, N. X. Li, D. L. M. Chu, and P. K. K. Lee
 Department of Civil Engineering, Chu Hai College of Higher Education, Hong Kong, P. R. China; President's Office, Chu Hai College of Higher Education, Hong Kong, P. R. China

- 05:40 - 06:00pm: Performance Study of PID and Voltage Mode Controls in Voltage Regulator for Smart Wall-Plug
Rini Nur Hasanah, Rakhmat Ramadhan, Hadi Suyono, and Taufik Taufik
EE Department, Universitas Brawijaya, Malang, Indonesia;
EE Department, Cal Poly State University, San Luis Obispo, California, USA
- 06:00 - 06:20pm: Real Time Environmental Biological Monitoring System
A. Abu-El Humos, H. Shih, M. Hasan, A. Eldek
Department of Electrical & Computer Engineering & Computer Science, Jackson State University, Mississippi, USA;
Department of Civil & Environmental Eng. & Industrial Systems & Tech., Jackson State University, Mississippi, USA
- 06:20 - 06:40pm: IoT-Taint: IoT Malware Detection Framework using Dynamic Taint Analysis
Abdullah Mujawib Alashjaee*, Salahaldeen Duraibi, Jia Song
Computer Science Department, University of Idaho, Moscow, Idaho, USA; Computer Science Department, Northern Border University, Arar, Saudi Arabia
- 06:20 - 08:00pm: **Any Late Papers and/or Informal Participant-driven Panel Discussions**
- 07:30 - 09:30pm: **CONFERENCE RECEPTION DINNER / SOCIAL**
December 06, 2019 (Friday); 07:30pm - 09:30pm
(LOCATION: Lotus Ballrooms 2 & 3)

LIST OF PAPERS IN POSTER SESSIONS 2-CSCI

03:00 - 03:40pm: December 06, 2019 (Friday)
Refreshments will be available.
(LOCATION: Lotus Ballroom 1)

0. Effect of Training Data Order for Machine Learning
Jeremy Mange
US Army - CCDC GVSC - Ground Vehicle Systems Center,
Analytical Development & Data Science, Michigan, USA
0. A Study on the Control Authority Transition
Characteristics by Driver Characteristics
HyunSuk Kim, Woojin Kim, Jungsook Kim, Daesub Yoon
Cognition & Transportation ICT Research Section,
Electronics & Telecommunications Research Institute
(ETRI), Daejeon, Republic of Korea
0. Which Styles of Teaching and Learning are Effective for
Students? Students Perspective
Dewan Tanvir Ahmed
Department of Computer Science, University of North
Carolina at Charlotte, North Carolina, USA

0. Development of Innovative Education Program for Tech-oriented Industrial Structure Improvement of Local Industries by Fostering Start-up Companies: MOI Management Of Innovation) TVA (Tech-Venture Academy) Program
Dong H. Lee, Kong R. Lee, Jong H. Lee
Technical Venture-leader Academy & Research Institute of Convergence, DGIST, Daegu, Korea;
Asian Innovation Research Institute (AIRI), Seoul, Korea
0. Development of Semi-supervised Learning-based Continuous Blood Pressure Estimation System
Jaehyo Jung, Siho Shin, Mingu Kang, Kyeung Ho Kang, and Youn Tae Kim
IT Fusion Technology Research Center, Department of IT Fusion Technology, Chosun University, Gwangju, Korea
0. Feasibility Study of a Consumer Multi-sensory Wristband to Monitor Sleep Disorder
Sang-Ho Lee, Dong-Ha Lee, Sanghun Yun, Jinung An
Division of Intelligent Robot, DGIST, Daegu, Korea
0. SparkDev: Development Program to Facilitate Collaboration and Learning in Computer Science
Carolina Uribe-Gosselin
Florida International University, Miami, Florida, USA
0. Bus Civil Complaint Using the Text Network Analysis
Seung Eui Ryu, Sae Mi Lee, Soon Jae An
Dept of Info. Systems, Dong-A University, Busan, Korea
0. Single Channel EEG for Near Real-Time Sleep Stage Detection
Khald Ali Aboalayon, Miad Faezipour
Departments of Computer Science and Engineering and Biomedical Engineering, University of Bridgeport, CT, USA
0. Fine Tuning Consumer Feedback and Recommender System Based on Word Vectorization and Deep Learning Techniques
Gurpreet Singh Bawa
Accenture Company, Global Professional Services and Consulting Company
0. Genomic Tools useful for the Mitigation of Climate Change Effect on Crop Production
David A. Lightfoot
Southern Illinois University at Carbondale, Illinois, USA
0. ...

7:00am - 5:00pm: REGISTRATION
(LOCATION: Lotus Ballroom 1)

DECEMBER 07, 2019

THERE ARE THREE SETS OF CONCURRENT SESSIONS ON December 07, 2019; SCHEDULED IN CONFERENCE ROOMS: Galleria A, Galleria B, and Galleria C with Poster Session in Lotus Ballroom 1.

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria A - DECEMBER 07 <-----

SESSION 22A: SYMPOSIUM ON MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-ISMIC) + SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-ISCW)
Chair: Dr. Sixuan Duan
Purdue University Northwest, Hammond, USA
December 07, 2019 (Saturday); 08:00am - 10:20am
(LOCATION: Galleria A)

08:00 - 08:20am: Applicability Domains of Machine Learning in Next Generation Radio Access Networks
Ramon Ferrus, Oriol Sallent, Jordi Perez-Romero, and Ramon Agusti
Universitat Politecnica de Catalunya (UPC), Barcelona, Spain

08:20 - 08:40am: WeDoCare: A System for Vulnerable Social Groups
J. Sa Silva, R. Saldanha, V. Pereira, D. Raposo, F. Boavida, and A. Rodrigues, M. Abreu
CISUC, University of Coimbra, Polo II, Pinhal de Marrocos, Coimbra, Portugal; Coimbra Business School, ISCAC, Quinta Agricola - Bencanta, Coimbra, Portugal

08:40 - 09:00am: A Live Streaming App for Android Devices
Abdul-Rahman Mawlood-Yunis
Physics and Computer Science Department, Wilfrid Laurier University, Waterloo, Ontario, Canada

09:00 - 09:20am: Extended Location-Based Ad-Hoc Routing with Erroneous/Malicious Intermediate Node Detection
Naoshi Yakura, Hiroaki Higaki
Department of Robotics and Mechatronics, Tokyo Denki University, Japan

09:20 - 09:40am: Low-Overhead Network Coding Communication for Wireless Multihop Networks
Yusuke Aoi, Hiroaki Higaki
Department of Robotics and Mechatronics, Tokyo Denki University, Japan

09:40 - 10:00am: Analyzing CVE Database Using Unsupervised Topic Modelling
Mounika Vanamala, Xiaohong Yuan, Kanishka Bandaru
North Carolina A&T State University, North Carolina, USA; Birla Institute of Technology & Science, Hyderabad, India

- 10:00 - 10:20am: Behavioral Analyses of System Call Sequences using LSTM Seq-Seq, Cosine Similarity and Jaccard Similarity for Real-time Anomaly Detection
Jayesh Soni*, Nagarajan Prabakar, Himanshu Upadhyay
School of Computing and Information Sciences, Florida International University, Miami, Florida, USA;
Applied Research Center, Florida International University, Miami, Florida, USA
- 10:20 - 10:40am: **BREAK (LOCATION: Lotus Ballroom 1)**
- SESSION 23A:** SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-ISCW) + SYMPOSIUM ON MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-ISMIC)
Chair: Prof. George Dimitoglou
Department of Computer Science & IT, Hood College, Frederick, Maryland, USA
December 07, 2019 (Saturday); 10:40am - 12:20pm
(LOCATION: Galleria A)
- 10:40 - 11:00am: Mitigating Drift in Time Series Data with Noise Augmentation
Tonya L. Fields, George Hsieh, Jules Chenou
Department of Computer Science, Norfolk State University, Norfolk, Virginia, USA
- 11:00 - 11:20am: Towards a Guided Perturbation for Privacy Protection Through Detecting Adversarial Examples with Provable Accuracy and Precision
Ying Lin, Yanzhen Qu, Zhiyuang Zhang, Haorong Su
School of Software, Yunnan University, Kunming, P. R. China;
School of Computer Science, Colorado Technical University, Colorado Springs, Colorado, USA
- 11:20 - 11:40am: The Five Levels of Data Destruction a Paradigm for Introducing Data Recovery in a Digital Forensics Course
Gary Cantrell, Joan Runs Through
Southern Utah University, Cedar City, Utah;
Dixie State University, St. George, Utah, USA
- 11:40 - 12:00pm: Database SQL Injection Security Problem Handling with Examples
Carol V. Gonzalez, Gwang Jung
Department of Mathematics & CS, Lehman College, City University of New York, West Bronx, New York, USA
- 12:00 - 12:20pm: Design of a Cross-layer Multi-path Routing Protocol for Duty-cycled Wireless Sensor Networks
Hyungkeun Lee
School of Computer Information Engineering, Kwangwoon University, Seoul, Korea
- 12:20 - 01:00pm: **LUNCH (On Your Own)**

- SESSION 24A: SYMPOSIUM ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-ISCW) + SYMPOSIUM ON ARTIFICIAL INTELLIGENCE (CSCI-ISAI) + SYMPOSIUM ON MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-ISM)**
Chair: Prof. Robert G. Reynolds
Department of Computer Science, Wayne State University,
Detroit, Michigan, USA
December 07, 2019 (Saturday); 01:00pm - 03:00pm
(LOCATION: Galleria A)
- 01:00 - 01:20pm: Review and Analysis of Cowrie Artefacts and their Potential to be Used Deceptively
 Warren Cabral, Craig Valli, Leslie F. Sikos, and Samuel G. Wakeling
 Cyber Security Co-operative Research Centre, Edith Cowan University, Australia
- 01:20 - 01:40pm: IoT Forensics: Pitfalls for Privacy and a Model for Providing Safeguards
 Nawaf Almolhis, Micheal Haney
 CS Department, University Of Idaho, Moscow, Idaho, USA;
 CS Department, University Of Idaho, Idaho Falls, Idaho, USA
- 01:40 - 02:00pm: Identifying UAV Swarm Command Methods and Individual Craft Roles Using Only Passive Sensing
 Jonathan Meredith, Jeremy Straub*, Benjamin Bernard
 Department of Mathematics and Computer Science, Ashland University, Ashland, Ohio, USA;
 Department of Computer Science, North Dakota State University, Fargo, North Dakota, USA
- 02:00 - 02:20pm: Securing Modern Network Architectures with Software Defined Networking
 Krzysztof Cabaj, Wojciech Mazurczyk, Piotr Nowakowski, and Piotr Zorawski
 Warsaw University of Technology, Warsaw, Poland
- 02:20 - 02:40pm: Sustainable Learning in Cultural Algorithms Using Common Value Auctions
 Anas Al-Tirawi, Robert G. Reynolds
 Department of Computer Science, College of Engineering, Wayne State University, Detroit, Michigan, USA
- 02:40 - 03:00pm: Probabilistic Grammar Induction for Long Term Human Activity Parsing
 Samuel Dixon, Raleigh Hansen, Wesley Deneke
 Western Washington University, Washington, USA
- 03:00 - 03:40pm: **POSTER session 3-CSCI**
December 07, 2019 (Saturday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 07 schedule
(LOCATION: Lotus Ballroom 1)

- SESSION 25A: SYMPOSIUM ON Artificial Intelligence (CSCI-ISAI)**
Chair: Dr. Jeffrey Wallace
Rocket Technology Systems LLC, Washington, DC, USA
December 07, 2019 (Saturday); 03:40pm - 05:40pm
(LOCATION: Galleria A)
- 03:40 - 04:00pm: Computational Science and Intelligence Programming in Business with Genetic, Generic Algorithms and AI Software Products: An Adaptive Algorithmic Approach
 Anastasia-Dimitra Lipitakis, Evangelia A.E.C. Lipitakis
 Dept of Informatics & Telematics, Harokopio University, Athens, Hellas, Greece; Kent Business School, University of Kent, Canterbury, England
- 04:00 - 04:20pm: Recognition of Drone Formation Intentions Using Supervised Machine Learning
 Ahmad Traboulsi, Michel Barbeau
 School of CS, Carleton University, Ottawa, Ontario, Canada
- 04:20 - 04:40pm: Prediction of the CNC Tool Wear Using the Machine Learning Technique
 Sungho Park, Domyeong Park, Kangbae Lee, Sangha Sung
 Management Info. System, Donga University, Busan, Korea
- 04:40 - 05:00pm: Traffic Sign Identification Using Deep Learning
 Ratheesh Ravindran, Mariam Faied, Mohan Krishnan, Mohammad Fanaei, and Michael J. Santora
 Department of ECE & Computer Science, University of Detroit Mercy, Detroit, Michigan, USA
- 05:00 - 05:20pm: Analysis of a Parameter-Based Computational Model of Long-Term Declarative Episodic Memory
 Yousef Alhwaiti, Mohammad Z. Chowdhury, Abu Kamruzzaman, and Charles C. Tappert
 Seidenberg School of CSIS, Pace University, Pleasantville, New York, USA
- 05:20 - 05:40pm: Predicting the Confidential Words in Japanese Judicial Precedents using the Neural Network Combined POS Tag
 Masakazu Kanazawa, Takehiko Kasahara, Atsushi Ito, Yuya Kiryu, and Kazuyuki Yamasawa
 Graduate School of Engineering, Utsunomiya University, Tochigi, Japan; Toin Yokohama University, Kanagawa, Japan; KDDI Corporation, Tokyo, Japan; TKC Corporation, Tokyo, Japan
- SESSION 26A: SYMPOSIUM ON Artificial Intelligence (CSCI-ISAI) + INTERNATIONAL WORKSHOP LINGWARE 2019: LINGUISTIC SOLUTIONS FOR INTELLIGENT SYSTEMS DESIGN**
Chair: Dr. Elena B. Kozerenko
Institute of Informatics Problems, Federal Research Center "Informatics and Control" of the Russian Academy of Sciences, Moscow, Russia
December 07, 2019 (Saturday); 05:40pm - 06:25pm
(LOCATION: Galleria A)
- 05:40 - 05:55pm: Semantic Representations for Multilingual Natural Language Processing
 Elena B. Kozerenko
 Institute of Informatics Problems, Federal Research Center "Informatics and Control" of the Russian Academy of Sciences, Moscow, Russia

- 05:55 - 06:10pm: Problem Domain Ontology Mining Based on Distributional Semantics
Elena B. Kozerenko, Nikolai V. Somin, Svetlana A. Pozdeeva, and Yulia I. Sinyagina
Institute of Informatics Problems, Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Moscow, Russia
- 06:10 - 06:25pm: Introduction of Phrase Structures into the Example-Based Machine Translation System
Alexander A. Khoroshilov, Elena B. Kozerenko, Alexei A. Khoroshilov, Yuri Nikitin, and Yuri P. Kalinin
Institute of Informatics Problems, Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Moscow, Russia
- 06:25 - 06:45pm: **CLOSING REMARKS**
December 07, 2019
(LOCATION: Galleria A)

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria B - DECEMBER 07 <-----

- SESSION 27B: SYMPOSIUM ON EDUCATION (CSCI-ISED)**
Chair: Dr. Xuejun Liang
Department of computer Science, California State University - Stanislaus, California, USA
December 07, 2019 (Saturday); 08:00am - 11:20am
(LOCATION: Galleria B)
- 08:00 - 08:20am: Distance Learning as a Levelling Tool for People with Disabilities
Catherine Beaton
Department of Information, Rochester Institute of Technology, Rochester, New York, USA
- 08:20 - 08:40am: Cyber Security Brings Effectively Use of Technology Into the Classroom and Preparing Students for the Industry
Carol V. Gonzalez, Gwang Jung
Department of Mathematics & CS, Lehman College, the City University of New York, West Bronx, New York, USA
- 08:40 - 09:00am: Computer Architecture Simulators for Different Instruction Formats
Xuejun Liang
Department of Computer Science,
California State University - Stanislaus, California, USA
- 09:00 - 09:20am: Get More From Less: A Hybrid Machine Learning Framework for Improving Early Predictions in STEM Education
Mohammad Rashedul Hasan, Mohamed Aly
Department of Computer Science and Engineering,
University of Nebraska-Lincoln, Lincoln, Nebraska, USA
- 09:20 - 09:40am: Business Intelligence at the University
Jonathan Fowler
Colorado Technical University, Colorado, USA

- 09:40 - 10:00am: Software Engineers at Play
Soma Datta, Mahrukh Sameen Mirza
Software Engineering, University of Houston-Clear Lake,
Houston, Texas, USA
- 10:00 - 10:20am: Teaching Undergraduate Software Engineering: Xcode Mobile
App Development During Dedicated Lab Periods
Muhammad Javed, Michael Estep
Department of Computing and Technology, Cameron University,
Lawton, Oklahoma, USA
- 10:20 - 10:40am: BREAK (LOCATION: Lotus Ballroom 1)**
- 10:40 - 11:00am: Assessing Potential Educational Use of Two 3D Scanners:
Microsoft Kinect v2 and NextEngine 3D Scanner Ultra HD
Jacob D. Hauenstein, Timothy S. Newman
CS Department, University of Alabama in Huntsville,
Huntsville, Alabama, USA
- 11:00 - 11:20am: Identifying At-Risk Computer Science Students Early in
Semester Utilizing Data-Driven Models
Varick L. Erickson
Computer Science, California State University East Bay,
East Bay, California, USA
- SESSION 28B: SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION
& PATTERN RECOGNITION (CSCI-ISPC) + SYMPOSIUM ON ARTIFICIAL
INTELLIGENCE (CSCI-ISAI)**
Chair: Farid Gharehmohammadi
Department of Computer Science,
University of Georgia, Georgia, USA
December 07, 2019 (Saturday); 11:20am - 12:20pm
(LOCATION: Galleria B)
- 11:20 - 11:40am: Real World Road Platoons and Negative Obstacles
Henry Hexmoor, Khaled Ahmed
School of Computing, Southern Illinois University,
Carbondale, Illinois, USA
- 11:40 - 12:00pm: Classification of Tumors in Breast Echography using a SVM
Algorithm
Acevedo-Contla Pedro, Vazquez-Hernandez Monica
Universidad Nacional Autonoma de Mexico, de Investigaciones
en Matematicas Aplicadas y en Sistemas, Mexico City, Mexico
- 12:00 - 12:20pm: Recent Trends in Natural Language Understanding for
Procedural Knowledge
Dena F. Mujtaba, Nihar R. Mahapatra*
Department of Electrical and Computer Engineering,
Michigan State University, East Lansing, Michigan, USA
- 12:20 - 01:00pm: LUNCH (On Your Own)**

- SESSION 29B: SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-ISPC)**
Chair: Prof. Morteza Biglari-Abhari
Department of Electrical, Computer & Software Engineering, University of Auckland, New Zealand
December 07, 2019 (Saturday); 01:00pm - 03:00pm
(LOCATION: Galleria B)
- 01:00 - 01:20pm: Region Hiding for Image Inpainting via Single-Image Training of U-Net
 Chloe F. Martin-King, Mohamed Allali
 Computational and Data Sciences, Chapman University, California, USA
- 01:20 - 01:40pm: A Novel Blind and Robust Watermarking Technique of Multiple Images
 Wael M. Khedr, Mohamed Wagieh Abo Elsoud
 Department of Computer Science and Information, College of Science, Majmaah University, Zulfi, Saudi Arabia; College of Computers & Informatics, Suez Canal University, Egypt
- 01:40 - 02:00pm: Attention-based Surgical Phase Boundaries Detection in Laparoscopic Videos
 Babak Namazi, Ganesh Sankaranarayanan, Venkat Devarajan
 Department of Electrical Engineering, University of Texas at Arlington, Texas, USA; Department of Surgery, Baylor University Medical Center, Dallas, Texas, USA
- 02:00 - 02:20pm: Collaborative Virtual Assembly Environment for Product Design
 Sharad Sharma, Sri-Teja Bodempudi, Manik Arrolla
 Department of Computer Science, Bowie State University, Bowie, Maryland, USA
- 02:20 - 02:40pm: Dilated Fully Convolutional Neural Network for Depth Estimation from a Single Image
 Yindong Hua, Yifeng Liu, Bingham Li, Mi Lu
 Department of Electrical & Computer Engineering, Texas A&M University, College Station, USA; School of Business, Stevens Institute of Technology, New Jersey, USA
- 02:40 - 03:00pm: Geotagging Urban Elements using Deep-Learning and Street-Level Video
 F. Carrizosa-Corral, D. E. Lopez-Barron, I. F. Vega-Lopez, and J. C. Castro-Padilla
 Data Science Research Dept, Hunabsys R&D, Culiacan, Mexico; School of Computing & Engineering, University of Missouri - Kansas City, Missouri, USA; Data Science Lab, Autonomous University of Sinaloa, Mexico
- 03:00 - 03:40pm: **POSTER session 3-CSCI**
December 07, 2019 (Saturday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 07 schedule
(LOCATION: Lotus Ballroom 1)

- SESSION 30B: SYMPOSIUM ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-ISPC) + SYMPOSIUM ON ARTIFICIAL INTELLIGENCE (CSCI-ISAI)**
Chair: Prof. George Dimitoglou
Department of Computer Science & IT, Hood College,
Frederick, Maryland, USA
December 07, 2019 (Saturday); 03:40pm - 06:20pm
(LOCATION: Galleria B)
- 03:40 - 04:00pm: Non-Audible Speech Classification Using Deep Learning Approaches
Rommel Fernandes, Lei Huang, Gustavo Vejarano
Department of Electrical Engineering and Computer Science,
Loyola Marymount University, Los Angeles, California, USA
- 04:00 - 04:20pm: Designing a Simulation Platform for Generation of Synthetic Videos for Human Activity Recognition
Wesley Deneke, Gary Plunkett, Sam Dixon, Robert Harley
Computer Science Department, Western Washington University,
Bellingham, Washington, USA
- 04:20 - 04:40pm: Orientation Detection of Lines in Binary Images Using the Radon Transform
Sean Matz
Claremont Graduate University, Claremont, California, USA
- 04:40 - 05:00pm: MaxHash for Fast Face Recognition and Retrieval
Ali Al Kobaisi, Pawel Wocjan
Department of ECE, University of Central Florida, Orlando,
Florida, USA; Department of CS, University of Central
Florida, Orlando, Florida, USA
- 05:00 - 05:20pm: Nonrigid 3D Shape Retrieval with HAPPS: A Novel Hybrid Augmented Point Pair Signature
Ekpo Otu*, Reyer Zwiggelaar, David Hunter, Yonghuai Liu
Department of Computer Science, Aberystwyth University, UK;
Department of Computer Science, Edgehill University, UK
- 05:20 - 05:40pm: Balancing Human and Machine Performance When Analyzing Image Cover
Travis Mandel*, Drew Gotshalk, Nicholas A. V. Del Moral,
Danielle K. Wilde, Micah J. Marshall, Alexander J. Spengler,
Shane J. Murphy, Brittany D. Wells, John H. R. Burns, and
Grady Weyenberg
Computer Science, University of Hawaii at Hilo, Hawaii, USA;
Marine Science, University of Hawaii at Hilo, Hawaii, USA;
Mathematics, University of Hawaii at Hilo, Hawaii, USA
- 05:40 - 06:00pm: Emotional State Prediction using Speech Signals
Bryan E. Martinez, Jaime Cerda*, Salvador Ramirez-Zavala
Universidad Michoacana de San Nicolas de Hidalgo, Facultad
de Ingenieria Electrica, Division de Estudios de Posgrado,
Michoacan, Mexico
- 06:00 - 06:20pm: Analysis of Recent Trends in Automatic Object Identification
Xavier Williams, Nihar R. Mahapatra*
Department of Electrical and Computer Engineering,
Michigan State University, East Lansing, Michigan, USA
- 06:25 - 06:45pm: **CLOSING REMARKS**
December 07, 2019
(LOCATION: Galleria A)

-----> SESSIONS SCHEDULED IN CONFERENCE ROOM Galleria C - DECEMBER 07 <-----

- SESSION 31C:** **SYMPOSIUM ON BIG DATA & DATA SCIENCE (CSCI-ISBD) +
SYMPOSIUM ON SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, &
MINING (CSCI-ISNA)**
Chair: Prof. M. Hadi Amini
 Solid Lab, School of Computing and Information
 Sciences, Florida International University, Miami,
 Florida, USA
December 07, 2019 (Saturday); 08:00am - 10:20am
(LOCATION: Galleria C)
- 08:00 - 08:20am: Trajectory Mining for Localization using Recurrent
Neural Network
Bing Zha, M. Taha Koroglu, Alper Yilmaz
Department of Civil, Environmental & Geodetic Engineering,
The Ohio State University, Columbus, Ohio, USA;
Department of Electrical and Computer Engineering,
The Ohio State University, Columbus, Ohio, USA
- 08:20 - 08:40am: Attributes of Low Performing Students in e-Learning System
Using Clustering Technique
E. A. Ekubo, BM Esiefarienrhe
CS Department, North West University, South Africa
- 08:40 - 09:00am: Morton-PELT: Efficient De-Noising Spatial-Change Point
Detection for Large Scale Normalized Digital Elevation
Model Data Set
Zhao Yang, Elias Ioup, John Sample, Kevin Shaw, and
Nathalie Japkowicz
CS Department, University of South Carolina Beaufort, South
Carolina, USA; Naval Research Laboratory, Code 7442, USA;
CS Department, American University, Washington, D.C., USA
- 09:00 - 09:20am: Influence-based Community Detection and Ranking
Aishwarya Mukunda, Matin Pirouz
Department of Computer Science, California State University,
Fresno, California, USA
- 09:20 - 09:40am: A Machine Learning Based Strategy for Election Result
Prediction
Meng-Hsiu Tsai, Yingfeng Wang, Myungjae Kwak, Neil Rigole
Department of Information Technology, Middle Georgia State
University, Macon, Georgia, USA
- 09:40 - 10:00am: Topic Extraction and Classification for Questions Posted in
Community-Based Question Answering Services
Qing Ma, Masaki Murata
Department of Applied Mathematics and Informatics,
Ryukoku University, Otsu, Japan; Department of Information
and Electronics, Tottori University, Tottori, Japan
- 10:00 - 10:20am: Toward Limiting Social Botnet Effectiveness While Detection
is Performed: A Probabilistic Approach
Matthew Spradling, Mark Allison, Tsenguun Tsogbadrakh,
and Jay Strong
Computer Science, Engineering, and Physics,
University of Michigan - Flint, Michigan, USA
- 10:20 - 10:40am: BREAK (LOCATION: Lotus Ballroom 1)**

- SESSION 32C: SYMPOSIUM ON SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-ISNA)**
Co-Chairs: Dr. Matthew Spradling* and Sahar Voghoei**
***University of Michigan - Flint, Michigan, USA;**
****Department of Computer Science, University of Georgia, USA**
December 07, 2019 (Saturday); 10:40am - 12:20pm
(LOCATION: Galleria C)
- 10:40 - 11:00am: Comparing Automatically Extracted Topics from Online Mental Health Disorder Forums
 Yilan Dong, Jonathan Gemmell, Elise Glaser, Kathleen Isenegger, and Alex Morain
 Department of CS, Grinnell College, Iowa, USA; School of Computing, DePaul University, Chicago, Illinois, USA; Department of CS, Colorado College, Colorado Springs, USA; Department of CS, Amherst College, Massachusetts, USA; College of Engineering, University of Illinois Urbana-Champaign, Champaign, Illinois, USA
- 11:00 - 11:20am: Dissecting Twitter Discussion Threads with Topic-aware Network Visualization
 Pouria Babvey, Carlo Lipizzi, Jose Emmanuel Ramirez Marquez
 School of Systems and Enterprises, Stevens Institute of Technology, Hoboken, New Jersey, USA
- 11:20 - 11:40am: Peer Influence and Centrality in Online Social Networks
 Marek Opuszko, Sven Gehrke, Sandra Niemz
 Department of Business Informatics, Friedrich-Schiller-University Jena, Jena, Germany
- 11:40 - 12:00pm: The Recommender System Based on State-Space Model in User Modeling
 KuanHua Lai, Neil Y. Yen, Jason C. Hung
 School of CSE, The University of Aizu, Wakamatsu, Japan; Department of Computer Science and Information Engineering, National Taichung University of Science & Technology, Taiwan
- 12:00 - 12:20pm: Design of a Multi-Dimensional Model for UGC-Based Emotion Analysis
 Yen-Jou Wang, Neil Yen, Jason C. Hung
 Department of Computer & Information Systems, University of Aizu, Fukushima, Japan; Department of Computer Science and Information Engineering, National Taichung University of Science and Technology, Taichung, Taiwan
- SESSION 33C: SYMPOSIUM ON INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-ISOT) + SYMPOSIUM ON SMART CITIES & SMART MOBILITY (CSCI-ISSC) + SYMPOSIUM ON CLOUD COMPUTING & DATA CENTERS (CSCI-ISCC)**
Chair: Jacob Hauenstein
Computer Science Department, The University of Alabama in Huntsville, USA
December 07, 2019 (Saturday); 12:40pm - 01:40pm
(LOCATION: Galleria C)
- 12:40 - 01:00pm: CloudMonitor: Data Flow Filtering as a Service
 Fahad Alqahtani, Frederick T. Sheldon
 Computer Science Department, University of Idaho, Idaho, USA
- 01:00 - 01:20pm: Anomaly Proposal-based Fire Detection for Cyber-Physical Systems
 Dilanga Abeyrathna, Pei-Chi Huang, Xin Zhong
 University of Nebraska - Omaha, Nebraska, USA

- 01:20 - 01:40pm: Smart DC Wall Outlet with Load Voltage Detection
Patrick Granieri, Benjamin Tan, Taufik Taufik
EE Department, Cal Poly State University,
San Luis Obispo, California, USA
- SESSION 34C: SYMPOSIUM ON HEALTH INFORMATICS & MEDICAL SYSTEMS (CSCI-ISHI)**
Chair: Prof. Ann Leslie Claesson-Vert
School of Nursing, Northern Arizona University,
North Valley Campus, Phoenix, Arizona, USA
December 07, 2019 (Saturday); 01:40pm - 03:00pm
(LOCATION: Galleria C)
- 01:40 - 02:00pm: State Transition Modeling of the Smoking Behavior using
LSTM Recurrent Neural Networks
Chrisogonas Odhiambo, Casey A. Cole, Alaleh Torkjazi, and
Homayoun Valafar
Department of CSE, University of South Carolina, Columbia,
South Carolina, USA
- 02:00 - 02:20pm: A Case Study of Technology Use and Information Flow at a
Danish E-clinic
Berglind F. Smaradottir, Rune W. Fensli
Department of Clinical Research Sorlandet Hospital Trust
Kristiansand, Norway; Department of ICT & Centre for
eHealth, University of Agder, Grimstad, Norway
- 02:20 - 02:40pm: Epileptic Seizure Detection using Wearable Sensors
Sarah Hadipour, Ala Tokhmpash, Bahram Shafai
Electrical & Computer Engineering, Northeastern University,
Boston, Massachusetts, USA
- 02:40 - 03:00pm: Predicting Seizure-Like Activity Using Sensors from Smart
Glasses
Sarah Hadipour, Ala Tokhmpash, Bahram Shafai
Electrical & Computer Engineering, Northeastern University,
Boston, Massachusetts, USA
- 03:00 - 03:40pm: **POSTER session 3-CSCI**
December 07, 2019 (Saturday)
Refreshments will be available.
List of poster papers appears at the end of Dec. 07 schedule
(LOCATION: Lotus Ballroom 1)
- SESSION 35C: SYMPOSIUM ON HEALTH INFORMATICS & MEDICAL SYSTEMS**
(CSCI-ISHI) + SYMPOSIUM ON COMPUTATIONAL BIOLOGY (CSCI-ISCB)
Chair: Prof. Ann Leslie Claesson-Vert
School of Nursing, Northern Arizona University,
North Valley Campus, Phoenix, Arizona, USA
December 07, 2019 (Saturday); 03:40pm - 06:20pm
(LOCATION: Galleria C)
- 03:40 - 04:00pm: Basic Study on Measuring Brain Activity during Exercise for
Evaluation of Welfare Device
Hiroaki Inoue, Masaya Hori, Yu Kikuchi, Mayu Maeda,
Yusuke Kobayashi, Takuya Kiryu, Toshiya Tsubota, and
Shunji Shimizu
Department of Applied Information Engineering, Suwa
University of Science, Chino, Japan; Department of
Engineering and Management, Suwa University of Science
Graduate School of Engineering and Management, Chino, Japan

- 04:00 - 04:20pm: Epileptic Intracranial Electroencephalogram Signal Classification using Pre-Trained Networks
Sarah Hadipour, Ala Tokhmpash, Bahram Shafai
Electrical & Computer Engineering, Northeastern University, Boston, Massachusetts, USA
- 04:20 - 04:40pm: Basic Study to Reduce the Artifact in Brain Activity Measuring Data by using Auto-Regressive Model
Shunji Shimizu, Yu Kikuchi, Masaya Hori, Takuya Kiryu, Hiroaki Inoue, and Fumikazu Miwakeichi
Department of Applied Information Engineering, Suwa University of Science, Chino, Japan; Department of Engineering and Management, Suwa University of Science, Graduate School of Engineering, Chino, Japan; Department of Statistical Modeling, The Institute of Statistical Mathematics, Tachikawa, Japan
- 04:40 - 05:00pm: Knowledge-based Linguistic Attribute Hierarchy for Diabetes Diagnosis
Hongmei He, Zhenhuan Zhu
School of Aerospace, Transport and Manufacturing, Cranfield University, Cranfield, UK; Smart Perception Lab Ltd, Milton Keynes, UK
- 05:00 - 05:20pm: Basic Study on Evaluation Method of Orientation and Mobility Skills Consideration for Visually Impaired Persons Based on Brain Activity
Masaya Hori, Hiroaki Inoue, Yu Kikuchi, Mayu Maeda, Yusuke Kobayashi, Takuya Kiryu, Toshiya Tsubota, and Shunji Shimizu
Department of Engineering and Management, Suwa University of Science Graduate School of Engineering and Management, Chino, Japan; Department of Applied Information Engineering, Suwa University of Science, Chino, Japan
- 05:20 - 05:40pm: Improvement of New Support System for Elderly People's Daily Life
Shunji Shimizu, Masaya Hori, Kouta Mizuide, Kohshi Matsubara, Yuki Nakata, and Hiroaki Inoue
Department of Applied Information Engineering, Suwa University of Science, Chino, Japan; Department of Engineering and Management, Suwa University of Science Graduate School of Engineering, Chino, Japan; Shimizu Laboratory, Suwa University of Science, Chino, Japan; Department of Computer Engineering, Suwa University of Science, Chino, Japan
- 05:40 - 06:00pm: Fundamental Study for Prevention of Stumble Accident using Base of Support
Masaya Hori, Yu Kikuchi, Yusuke Kobayashi, Takuya Kiryu, Hiroaki Inoue, Shunji Shimizu
Department of Engineering and Management, Suwa University of Science, Graduate School of Engineering and Management, Chino, Japan; Department of Applied Information Engineering, Suwa University of Science, Chino, Japan

- 06:00 - 06:20pm: An Integrating Analysis Reveals Key Regulatory Networks in Breast Cancer
Wenjuan Zhang, Yifan Zhang, William Yang, Dan Li, Jun S. Liu, and Mary Qu Yang
MidSouth Bioinformatics Center and Bioinformatics Program, University of Arkansas at Little Rock and University of Arkansas Medical Sciences, Little Rock, Kansas, USA; Department of Computer Science, Carnegie Mellon University School of Computer Science, Pittsburgh, USA; Department of Statistics, Harvard University, Cambridge, Massachusetts, USA
- 06:25 - 06:45pm: **CLOSING REMARKS**
December 07, 2019
(LOCATION: Galleria A)

LIST OF PAPERS IN POSTER SESSIONS 3-CSCI

- 03:00 - 03:40pm: December 07, 2019 (Saturday)
Refreshments will be available.
(LOCATION: Lotus Ballroom 1)
0. A Design of Safety and Disaster Response System with XR, IoT and LBS Convergence
Geun Kyoung Choi, Jinsuk Kang, Byeong-hee Roh
MR-IoT Convergence Disaster Response, AI Research Center, Ajou University, Suwon, Korea; ICT Convergence R&DB Center, Frontis Co. Ltd., Suwon, Korea; Department of Computer Engineering, Ajou University, Suwon, Korea
 0. Enhancing the Fake News Detection by Applying Effective Feature Selection Based on Semantic Sources
Vian Sabeeh, Mohammed Zohdy, Rasha Al Bashaireh
CSE, Oakland University, Michigan, USA;
ECE Department, Oakland University, Michigan, USA
 0. Combating Online Impersonation in the United States
Ashu M. G. Solo
Maverick Trailblazers Inc., Wilmington, Delaware, USA
 0. Unsupervised Pose Estimation via Inverse Graphics
Jason Jennings, Farhad Kamangar
The University of Texas at Arlington, Texas, USA
 0. Development of a Platform for Metabolic Predictions of a Stroke for the Elderly Population
Junghyun Nam
University of Hawaii at Manoa, Hawaii, USA
 0. Impact of Stressors on Broiler Chicken and Development of IT Monitoring System for a Better Production
Junghyun Nam
University of Hawaii at Manoa, Hawaii, USA
 0. Towards Data-Enabled Career Planning with the Occupational Information Network (O*NET)
Dena F. Mujtaba, Nihar R. Mahapatra
Department of ECE, Michigan State University, East Lansing, Michigan, USA
 0. Confirmation of QTL that Underlie Resistance to Soybean Sudden Death Syndrome using NILs and 6 thousand SNPs
Lee YC, MJ Iqbal, VN Njiti, SK Kantartzi, PT Gibson, J Anderson, DA Lightfoot*
Southern Illinois University, Carbondale, Illinois, USA; University of California, Davis, CA, USA; Alcorn State University, Lorman, USA; Makerere University, Kampala, Uganda
 0. ...