

TABLE OF CONTENTS

CSCI 2023 CONFERENCE SCHEDULE

The 2023 International Conference on Computational
Science and Computational Intelligence

<https://www.american-cse.org/csci2023/>

December 13-15, 2023

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 this schedule 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.

ALL TIMES ARE GIVEN IN TERMS OF USA PACIFIC TIME ZONE.

TABLE OF CONTENTS	1
REGISTRATIONS / PACKET PICKUP	3
REFRESHMENTS / BREAKFASTS / RECEPTION	3
OPENING REMARKS, KEYNOTES, TUTORIALS	4
DECEMBER 13 (WEDNESDAY) - ON-SITE PRESENTATIONS & ACTIVITIES	6
OPENING REMARKS (Ballrooms Galleria D-E)	6
KEYNOTE (Ballrooms Galleria D-E)	6
SESSION 1A-WED (Ballrooms Galleria D-E)	6
SESSION 2A-WED (Ballrooms Galleria D-E)	7
SESSION 3A-WED (Ballrooms Galleria D-E)	7
SESSION 4A-WED (Ballrooms Galleria D-E)	9
SESSION 5B-WED (Ballrooms Galleria B-C)	11
SESSION 6B-WED (Ballrooms Galleria B-C)	12
SESSION 7B-WED (Ballrooms Galleria B-C)	13
DECEMBER 13 (WEDNESDAY) - ONLINE/ZOOM PRESENTATIONS	15
SESSION 1-ONLINE (ZOOM)	15
SESSION 2-ONLINE (ZOOM)	16
SESSION 3-ONLINE (ZOOM)	17
DECEMBER 14 (THURSDAY) - ON-SITE PRESENTATIONS & ACTIVITIES	19
KEYNOTE (Ballrooms Galleria D-E)	19
KEYNOTE (Ballrooms Galleria D-E)	19
SESSION 8A-THU (Ballrooms Galleria D-E)	20
SESSION 9A-THU (Ballrooms Galleria D-E)	21
SESSION 10A-THU (Ballrooms Galleria D-E)	23
KEYNOTE (Ballrooms Galleria D-E)	23

SESSION 11B-THU (Ballrooms Galleria B-C)	24
SESSION 12B-THU (Ballrooms Galleria B-C)	25
SESSION 13B-THU (Ballrooms Galleria B-C)	27
DECEMBER 14 (THURSDAY) - ONLINE/ZOOM PRESENTATIONS	28
SESSION 4-ONLINE (ZOOM)	28
SESSION 5-ONLINE (ZOOM)	29
SESSION 6-ONLINE (ZOOM)	30
SESSION 7-ONLINE (ZOOM)	31
DECEMBER 15 (Friday) - ON-SITE PRESENTATIONS & ACTIVITIES	32
SESSION 14A-FRI (Ballrooms Galleria D-E)	32
SESSION 15A-FRI (Ballrooms Galleria D-E); Merged with 16A-FRI	33
SESSION 16A-FRI (Ballrooms Galleria D-E)	33
SESSION 17A-FRI (Ballrooms Galleria D-E)	34
SESSION 18A-FRI (Ballrooms Galleria D-E)	35
CLOSING REMARKS	35
SESSION 19B-FRI (Ballrooms Galleria B-C)	36
SESSION 20B-FRI (Ballrooms Galleria B-C)	36
SESSION 21B-FRI (Ballrooms Galleria B-C)	37
SESSION 22B-FRI (Ballrooms Galleria B-C)	37
SESSION 23B-FRI (Ballrooms Galleria B-C)	38
CLOSING REMARKS	38
DECEMBER 15 (Friday) - ONLINE/ZOOM PRESENTATIONS	39
SESSION 8-ONLINE (ZOOM)	39
SESSION 9-ONLINE (ZOOM)	40
SESSION 10-ONLINE (ZOOM)	41
SESSION 11-ONLINE (ZOOM)	42
SESSION 12-ONLINE (ZOOM)	43
LIST OF PRE-RECODED PRESENTATIONS / POST-CONFERENCE	44
COMPUTATIONAL SCIENCE (CSCI-RTCS)	45
COMPUTATIONAL BIOLOGY (CSCI-RTCB)	47
HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI)	48
PARALLEL & DISTRIBUTED COMPUTING (CSCI-RTPD)	50
CLOUD COMPUTING AND DATA CENTERS (CSCI-RTCC)	51
COMPUTATIONAL INTELLIGENCE (CSCI-RTCI)	52
ARTIFICIAL INTELLIGENCE (CSCI-RTAI)	53
CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW)	55
MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-RTMC)	56
SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-RTPC)	57
BIG DATA AND DATA SCIENCE (CSCI-RTBD)	58
SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-RTNA)	60
EDUCATION (CSCI-RTED)	61
SOFTWARE ENGINEERING (CSCI-RTSE)	63

REGISTRATIONS / CONFERENCE PACKET PICKUP:

December 12, 2023 (Tuesday): 03:00pm - 06:00pm (Lotus Ballrooms 2 & 3)
December 13, 2023 (Wednesday): 07:20am - 05:00pm (Lotus Ballrooms 2 & 3)
December 14, 2023 (Thursday): 07:20am - 05:00pm (Lotus Ballrooms 2 & 3)
December 15, 2023 (Friday): 07:20am - 05:00pm (Lotus Ballrooms 2 & 3)

REFRESHMENTS/BREAKFASTS/RECEPTION:

December 13, 2023 (Wednesday):

CONTINENTAL BREAKFAST: 07:20am - 08:20am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK: 09:40am - 10:00am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK + POSTERS: 03:00pm - 03:40pm (Lotus Ballrooms 2 & 3)

December 14, 2023 (Thursday):

CONTINENTAL BREAKFAST: 07:20am - 08:20am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK: 09:50am - 10:20am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK + POSTERS: 03:00pm - 03:40pm (Lotus Ballrooms 2 & 3)
CONFERENCE RECEPTION DINNER: 07:00pm - 09:00pm (Velvet Room)

December 15, 2023 (Thursday):

CONTINENTAL BREAKFAST: 07:20am - 08:20am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK: 10:00am - 10:20am (Lotus Ballrooms 2 & 3)
REFRESHMENT BREAK + POSTERS: 03:20pm - 03:40pm (Lotus Ballrooms 2 & 3)

PRESENTATIONS OF GENERAL INTEREST (OPENING REMARKS, KEYNOTES, ...):

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OPENING REMARKS:

CSCI 2023 Steering Committee representative,
Professor Emeritus Hamid R. Arabnia
School of Computing, University of Georgia, USA;
Editor-in-Chief, The Journal of Supercomputing (Springer Nature);
Editor, Transactions of Computational Science & Computational
Intelligence (Springer Nature)
Date & Time: December 13, 2023, Wednesday - 08:20am - 8:40am
(LOCATION: Ballrooms Galleria D-E)

KEYNOTE: COLLABORATIVE ATTACKS AND DEFENSE

Professor Bharat Bhargava
IEEE Fellow
Purdue University, Department of Computer Sciences,
West Lafayette, Indiana, USA
Date & Time: December 13, 2023, Wednesday - 08:40am - 09:40am
(LOCATION: Ballrooms Galleria D-E)

**KEYNOTE: INTEGRATING ADVANCED AI ALGORITHMS WITH SCIENTIFIC ARTICLES;
LARGE LANGUAGE MODELS (LLMs) AND BEYOND**

Dr. Soheyla Amirian
Faculty Fellow, The Institute for Artificial Intelligence;
Faculty Lecturer, School of Computing, University of Georgia;
Director, Applied Machine Intelligence Initiatives &
Education (AMIIE) Lab.; 2023 IEEE Atlanta Section Outstanding
Educator awardee;
The University of Georgia, School of Computing, Athens, Georgia, USA
Date & Time: December 14, 2023, Thursday - 08:20am - 09:05am
(LOCATION: Ballrooms Galleria D-E)

**KEYNOTE: THE FUTURE IS HERE: TOWARDS AN AI DRIVEN OPERATING SYSTEM USING
OBJECT MESSAGING AND INTELLIGENT OBJECTS (OMIO)**

Massoud Alibakhsh
Co-Founder & CEO, OMADEUS
Atlanta, Georgia, USA
Date & Time: December 14, 2023, Thursday - 09:05am - 09:50am
(LOCATION: Ballrooms Galleria D-E)

**KEYNOTE - INVITED TUTORIAL:
EXPLAINING AND APPLYING GROVER'S QUANTUM ALGORITHM**

Prof. Leon Deligiannidis
Wentworth Institute of Technology, Boston, Massachusetts, USA
Date & Time: December 14, 2023, Thursday - 04:40pm - 06:00pm
(LOCATION: Ballrooms Galleria D-E)

DECEMBER 12, 2023

**03:00p - 06:00p: REGISTRATION
(LOCATION: Lotus Ballrooms 2 & 3)**

December 13

DECEMBER 13, 2023

THERE ARE THREE SETS OF CONCURRENT SESSIONS ON December 13, 2023; TWO are ON-SITE PRESENTATIONS (FACE-TO-FACE) IN BALLROOMS GALLERIA B-C AND GALLERIA D-E AND THE THIRD IS ONLINE (THE ZOOM LINKS are ALREADY PROVIDED TO SPEAKERS AND ALL REGISTERED AUTHORS).

**7:20am - 5:00pm: REGISTRATION
(LOCATION: Lotus Ballrooms 2-3)**

**07:20 - 08-20am: CONTINENTAL BREAKFAST
(LOCATION: Lotus Ballrooms 2-3)**

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 13, Wednesday)
LOCATION: Ballrooms Galleria D-E

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- 08:20 - 08:40am: OPENING REMARKS - December 13, 2023, Wednesday;**
CSCI 2023 Steering Committee representative,
Professor Emeritus Hamid R. Arabnia
School of Computing, University of Georgia, USA;
Editor-in-Chief, The Journal of Supercomputing (Springer Nature);
Editor, Transactions of Computational Science & Computational
Intelligence (Springer Nature)
(LOCATION: Ballrooms Galleria D-E)
- 08:40 - 09:40am: KEYNOTE: December 13, 2023, Wednesday;**
COLLABORATIVE ATTACKS AND DEFENSE
Professor Bharat Bhargava
IEEE Fellow
Purdue University, Department of Computer Sciences,
West Lafayette, Indiana, USA
(LOCATION: Ballrooms Galleria D-E)
- 09:40 - 10:00am: BREAK (Refreshments)**
(LOCATION: Lotus Ballrooms 2-3)
- SESSION 1A-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 5B-WED & ON-LINE SESSIONS)**
BIG DATA AND DATA SCIENCE (CSCI-RTBD) + Artificial Intelligence (CSCI-RTAI)
Chairs: TBA
December 13, 2023 (Wednesday); 10:00am - 12:20pm
(LOCATION: Ballrooms Galleria D-E)
- 10:00 - 10:20am: Analyzing and Modeling Riyadh's Human Mobility Patterns**
Alnefaie Musharraf E. Meshal, Ivica Kostanic
Department of Electrical Engineering and Computer Science,
Florida Institute of Technology, Melbourne, Florida, USA
- 10:20 - 10:40am: Data Exploration, Preparation, and Pilot Studies for Building**
a Knowledge Model of the Cayo Santiago Rhesus Monkeys
Martin Q. Zhao, Mehakpreet Kaur, Soumik Kundu, Qian Wang
Department of Computer Science, Mercer University, Macon,
Georgia, USA; School of Engineering, Mercer University,
Macon, Georgia, USA; Department of Biomedical Sciences,
Texas A&M University School of Dentistry, Dallas, Texas, USA
- 10:40 - 11:00am: CENSUS-HWR: A Large Training Dataset for Offline Handwriting**
Recognition
Chetan Joshi, Lawry Sorenson, Ammon Wolfert, Mark Clement,
Joseph Price, Kasey Buckles
Department of Computer Science, Brigham Young University,
Utah, USA; Department of Economics, Brigham Young University,
Utah, USA; Department of Economics, University of Notre Dame,
Indiana, USA
- 11:00 - 11:20am: Towards Federated Decentralized Querying on Knowledge Graphs**
Siraj Munir, Stefano Ferretti
Department of Pure and Applied Sciences, University of
Urbino Carlo Bo, Urbino, Italy

- 11:20 - 11:40am: Morocco's Football Triumph in the 2022 FIFA World Cup: A Data-Driven Analysis of Sociocultural Impact Using Big Data Analytics
Anasse Bari, Edward Hou, Caitlyn Cui, Emos Ker, Charles Wang, Nawaf Alabdullah, Kelly Lawlor, Sebastian Straesser, Advait Abrol, Alex Manko
Department of Computer Science, New York University, New York, USA
- 11:40 - 12:00pm: New York City Mobility Analytics Index and the Relationship with Economic Activity
Kyle Whitt, Anasse Bari
Department of Economics, New York University, New York, USA; Courant Institute of Mathematical Sciences, New York University, New York, USA
- 12:00 - 12:20pm: PPTPPP: Presentation by a Young Scholar: Prediction of Credit Defaults based on Weight Dimensionality Reduction Neural Network and M-Band Discrete Wavelet Transform
Alejandro Mayorga, Letian Wang, Xiaodi Wang, Wenke Sun
Western Connecticut State University, Danbury, USA; Dalian University of Technology, Dalian, China
- 12:20 - 01:20pm: **LUNCH (On Your Own)**
- SESSION 2A-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 6B-WED & ON-LINE SESSIONS)
SMART CITIES AND SMART MOBILITY (CSCI-RTSC) +
CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW)
Chairs: TBA
December 13, 2023 (Wednesday); 01:20pm - 02:00pm
(LOCATION: Ballrooms Galleria D-E)**
- 01:20 - 01:40pm: Sustainability of Nature Parks by Changing Tourist Behavior Using Donations and Generative AI
Riku Sato, Yoshiaki Shimazaki, Takayasu Yamaguchi
Akita Prefectural University, Japan
- 01:40 - 02:00pm: Cyber Extortion Unveiled: The Evolution, Tactics, Challenges, and Future of Ransomware
Salahaldeen Duraibi, Chamandeep Kaur, A. B. Pawar
College of Computer Science and Information Technology, Jazan University, Jazan, Saudi Arabia;
Department of Computer Engineering, Sanjivani College of Eng., Kopargaon Savitribai Phule Pune University, India
- SESSION 3A-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 6B-WED & ON-LINE SESSIONS)
HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI)
Chairs: TBA
December 13, 2023 (Wednesday); 02:00pm - 03:00pm
(LOCATION: Ballrooms Galleria D-E)**
- 02:00 - 02:20pm: Exploring Concepts for Pipeline-Driven Mobile Health Data Dashboards: Insights from Personal Projects and Github Contributions
Carsten Vogel, Michael Stach, Johannes Allgaier, Jens Scheible, Fabian Hofmann, Rudiger Pryss
Institute of Clinical Epidemiology and Biometry, University of Wurzburg, Wurzburg, Germany;
Institute of Databases and Information Systems, Ulm University, Ulm, Germany

- 02:20 - 02:40pm: An Approach with Machine Learning for Heart Disease Risk Prediction
 Fathe Jeribi, Chamandeep Kaur, A. B. Pawar
 College of Computer Science and Information Technology,
 Jazan University, Jazan, Saudi Arabia;
 Department of Computer Engineering, Sanjivani College of Eng.,
 Kopargaon Savitribai Phule Pune University, Pune, India
- 02:40 - 03:00pm: Follow-up Evaluation to Explore Disparities between Android and iOS users Utilizing the TrackYourTinnitus Ecological Momentary Assessment Platform
 Michael Winter, Winfried Schlee, Thomas Probst,
 Michael Stach, Rudiger Pryss
 Institute of Clinical Epidemiology and Biometry, University of Wurzburg, Wurzburg, Germany; Institute for Information and Process Management, Eastern Switzerland University of Applied Sciences, St. Gallen, Switzerland; Division of Psychotherapy, Department of Psychology, Paris Lodron University Salzburg, Salzburg, Austria
- 03:00 - 03:40pm: **BREAK (Refreshments) & POSTER SESSIONS**
December 13, 2023 (Wednesday);
(LOCATION: Lotus Ballrooms 2-3)
0. ECGformer: Leveraging transformer for ECG heartbeat arrhythmia classification
 Taymaz Akan, Sait Alp, Mohammad Alfrad Nobel Bhuiyan
 Department of Medicine, Louisiana State University
 Health Sciences Center, Shreveport, Louisiana, USA;
 Department of Computer Engineering, Erzurum Technical University, Erzurum, Turkey
0. An Endless Outpainting Tool Based On Stable Diffusion
 Peter Garrity, Leonidas Deligiannidis
 School of Computing and Data Science, Wentworth Institute of Technology, Boston, Massachusetts, USA
0. Research on Real-Time Image Stitching for Wafer Defect Inspection
 So-Young Kwon, Young-Hyung Kim, Dong-Soo Jung, and Yong-Hwan Lee
 Department of Electronic Engineering, Kumoh National Institute of Technology, South Korea; Department of IT Convergence, Kumoh National Institute of Technology, South Korea; Syisolution, South Korea; School of Electronic Engineering, Kumoh National Institute of Technology, South Korea
0. Well-being of Sedentary Workers: A Novel Approach based on Circadian Rhythms Monitoring
 Sawsen El Hadj, Yasmina Berkani, Solene Le Bars, and Rodrigo Balp
 Capgemini Engineering, Meudon, France

- O. Design a Hardware Applying Fog Removal Algorithm using Median Dark Channel Prior for Autonomous Driving Car
Chang-yong Lee, Heon-bin Jang, Young-seok Kim, and Yong-hwan Lee
Department of Electronic Engineering, Kumoh National Institute of Technology, South Korea; School of Electronic Engineering, Kumoh National Institute of Technology, South Korea
- O. Machine Learning-Based Artifact Detection for Long-Read Sequencing Data
Felix Mbuga, Kathy Lam, Wendy Lee
Department of Computer Science, San Jose State University, San Jose, California, USA
- O. Offline Multi-Agent Reinforcement Learning in Custom Game Scenario
Indu Shukla, William R. Wilson, Althea C. Henslee, and Haley R. Dozier
United States Army Corps of Engineers, Vicksburg, Mississippi, USA; Louisiana Tech University, Ruston, Louisiana, USA

SESSION 4A-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 7B-WED & ON-LINE SESSIONS)
ARTIFICIAL INTELLIGENCE (CSCI-RTAI)
Chairs: TBA
December 13, 2023 (Wednesday); 03:40pm - 06:20pm
(LOCATION: Ballrooms Galleria D-E)

- 03:40 - 04:00pm: Microarchitecture Characterization and Analysis of Emerging Neuro-Symbolic A.I. Workloads
Patrick M. Stockton, Cory Davis, Eugene B. John
The University of Texas at San Antonio, San Antonio, Texas, USA
- 04:00 - 04:20pm: The Utility of Feature Reuse: Transfer Learning in Data-Starved Regimes
Rashik Shadman, M.G. Sarwar Murshed, Edward Verenich, Alvaro Velasquez, Faraz Hussain
Clarkson University, Potsdam, New York, USA;
Air Force Research Lab, Rome, New York, USA;
University of Colorado Boulder, Boulder, Colorado, USA
- 04:20 - 04:40pm: A Deep Reinforcement Learning based Approach for Bridge Health Maintenance
Divija Swetha Gadiraju, Surya Rajalakshmi Muthiah, and Deepak Khazanchi
University of Nebraska at Omaha, Nebraska, USA
- 04:40 - 05:00pm: Toward Gamification Design of Molecular-Level Filters through Reinforcement Learning of Blackjack
Ron Coleman, Bashir Dahir
Computer Science Department, Marist College, Poughkeepsie, New York, USA
- 05:00 - 05:20pm: Large Language Model-Based Representation Learning for Entity Resolution using Contrastive Learning
Bi T. Foua, John R. Talburt, Xiaowei Xu
Department of Computer Science, University of Arkansas at Little Rock, Arkansas, USA; Information Science Department, University of Arkansas at Little Rock, Arkansas, USA

- 05:20 - 05:40pm: The Challenge of Partial Grounding in Constraint Compliance
Steven Jones, Robert E. Wray
Center for Integrated Cognition, IQM Research Institute,
Ann Arbor, Michigan, USA
- 05:40 - 06:00pm: Train Once, Match Everywhere: Harnessing Generative Language
Models for Entity Matching
Bi T Foua, Xingqiao Wang, John Talburt, Xiaowei Xu
Department of Computer Science, University of Arkansas at
Little Rock, Arkansas, USA; Information Science Department,
University of Arkansas at Little Rock, Arkansas, USA
- 06:00 - 06:20pm: FREE SLOT

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 13, Wednesday)
LOCATION: Ballrooms Galleria B-C

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SESSION 5B-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 1A-WED & ON-LINE SESSIONS)
CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW) & AI
Chairs: TBA
December 13, 2023 (Wednesday); 10:00am - 12:20pm
(LOCATION: Ballrooms Galleria B-C)

- 10:00 - 10:20am: Attack Target Detection Using Machine Learning on SCADA Gas Pipeline Data
Michelle Buslon, Chol Hyun Park, Yoohwan Kim, Ju-Yeon Jo
Computer Science Department, University of Nevada,
Las Vegas, Nevada, USA
- 10:20 - 10:40am: Advancements in Fake News Detection Using Machine and Deep Learning Models: Comprehensive Literature Review
Bushra Alkomah, Frederick Sheldon
Computer Science Department, University of Idaho,
Moscow, Idaho, USA
- 10:40 - 11:00am: Named Entity Recognition from Biomedical Data
Maged Refaat, Ahmed Rafea, Nada Gaballah
Computer Science and Engineering Department,
American University in Cairo, Egypt
- 11:00 - 11:20am: Ensuring Data Security in eLearning: Challenges and Solutions
Shirin Jorayeva, Mohammad Eyadat
Information systems and Operations Management,
California State University, Dominguez Hills, California, USA
- 11:20 - 11:40am: Detecting Cyber Threats with Limited Dataset using Generative Adversarial Network on SCADA System
Chol Hyun Park, Ju-Yeon Jo, Yoohwan Kim
Department of Computer Science,
Univesrity of Nevada Las Vegas, Nevada, USA
- 11:40 - 12:00pm: Decoding the Obfuscated: Advanced NER Techniques for Online Escort Advertisements
Alejandro Rodriguez Perez, Pablo Rivas, Javier Turek,
Korn Sooksatra, Ernesto Quevedo, Gisela Bichler, Tomas Cerny,
Laurie Giddens, Stacie Petter
School of Engineering & Computer Science, Department of
Computer Science, Baylor University, Waco, Texas, USA;
Intel Labs, Intel Corporation, Portland, Oregon, USA;
School of Criminology & Criminal Justice, California State
University, San Bernardino, California, USA;
College of Engineering, Department of Systems and Industrial
Engineering, The University of Arizona, Arizona, USA;
Information Technology & Decision Sciences Department,
G. Brint Ryan College of Business, University of North Texas,
Texas, USA; School of Business, Management of Information
Systems, Wake Forest University, North Carolina, USA
- 12:00 - 12:20pm: Scoping Review on Image-Text Multimodal Machine Learning Models
Maisha Binte Rashid, Pablo Rivas
School of Engineering & Computer Science, Department of
Computer Science, Baylor University, Waco, Texas, USA

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 6B-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 2A-WED+ & ON-LINE SESSIONS)
COMPUTATIONAL SCIENCE (CSCI-RTCS) + (CSCI-RTCC) + HPC (CSCI-RTPD)
+ COMPUTATIONAL BIOLOGY (CSCI-RTCB)
Chairs: TBA
December 13, 2023 (Wednesday); 01:20pm - 03:00pm
(LOCATION: Ballrooms Galleria B-C)

01:20 - 01:40pm: Steady-State Thermal Modeling for Embedded Artificial
 Intelligent Applications
 Sarah Azaizeh, Olivia Marsh, Robert Taylor, Shi Sha
 Electrical Engineering, Wilkes University, Pennsylvania, USA

01:40 - 02:00pm: Data Clustering and Visualization with Recursive Goemans-
 Williamson MaxCut Algorithm
 An Ly, Raj Sawhney, Marina Chugunova
 Institute of Mathematical Sciences, Claremont Graduate
 University, Claremont, California, USA

02:00 - 02:20pm: New Methods to Solve Difference Equations Automatically
 Jun Zhang, Willie Brown, Ruzong Fan
 Department of Computer Science and Engineering Technology,
 University of Maryland Eastern Shore, Princess Anne,
 Maryland, USA; Department of Engineering and Aviation
 Sciences, University of Maryland Eastern Shore, Princess Anne,
 Maryland, USA; Department of Biostatistics, Bioinformatics,
 and Biomathematics, Georgetown University, Washington, DC, USA

02:20 - 02:40pm: Parameter Estimation in Biochemical Models Using Moment
 Approximations
 Kannon Hossain, Roger B. Sidje
 Department of Mathematics, The University of Alabama,
 Tuscaloosa, Alabama, USA

02:40 - 03:00pm: FREE SLOT

03:00 - 03:40pm: BREAK (Refreshments) & POSTER SESSIONS
December 13, 2023 (Wednesday);
(LOCATION: Lotus Ballrooms 2-3)

0. ECGformer: Leveraging transformer for ECG heartbeat
 arrhythmia classification
 Taymaz Akan, Sait Alp, Mohammad Alfrad Nobel Bhuiyan
 Department of Medicine, Louisiana State University
 Health Sciences Center, Shreveport, Louisiana, USA;
 Department of Computer Engineering, Erzurum Technical
 University, Erzurum, Turkey
0. An Endless Outpainting Tool Based On Stable Diffusion
 Peter Garrity, Leonidas Deligiannidis
 School of Computing and Data Science, Wentworth Institute
 of Technology, Boston, Massachusetts, USA
0. Research on Real-Time Image Stitching for Wafer Defect
 Inspection
 So-Young Kwon, Young-Hyung Kim, Dong-Soo Jung, and
 Yong-Hwan Lee
 Department of Electronic Engineering, Kumoh National
 Institute of Technology, South Korea; Department of IT
 Convergence, Kumoh National Institute of Technology,
 South Korea; Syisolution, South Korea; School of
 Electronic Engineering, Kumoh National Institute of
 Technology, South Korea

- O. Well-being of Sedentary Workers: A Novel Approach based on Circadian Rhythms Monitoring
Sawsen El Hadj, Yasmina Berkani, Solene Le Bars, and Rodrigo Balp
Capgemini Engineering, Meudon, France
- O. Design a Hardware Applying Fog Removal Algorithm using Median Dark Channel Prior for Autonomous Driving Car
Chang-yong Lee, Heon-bin Jang, Young-seok Kim, and Yong-hwan Lee
Department of Electronic Engineering, Kumoh National Institute of Technology, South Korea; School of Electronic Engineering, Kumoh National Institute of Technology, South Korea
- O. Machine Learning-Based Artifact Detection for Long-Read Sequencing Data
Felix Mbuga, Kathy Lam, Wendy Lee
Department of Computer Science, San Jose State University, San Jose, California, USA
- O. Offline Multi-Agent Reinforcement Learning in Custom Game Scenario
Indu Shukla, William R. Wilson, Althea C. Henslee, and Haley R. Dozier
United States Army Corps of Engineers, Vicksburg, Mississippi, USA; Louisiana Tech University, Ruston, Louisiana, USA

SESSION 7B-WED: (CONCURRENT SESSION WITH ON-SITE SESSION 4A-WED & ON-LINE SESSIONS) EDUCATION (CSCI-RTED) (Includes Use of ChatGPT + Online, STEM Education, ...)
Chairs: TBA
December 13, 2023 (Wednesday); 03:40pm - 06:20pm
(LOCATION: Ballrooms Galleria B-C)

- 03:40 - 04:00pm: Student Mastery or AI Deception? Analyzing ChatGPT's Assessment Proficiency and Evaluating Detection Strategies
Kevin Wang, Seth Akins, Abdallah Mohammed, Ramon Lawrence
Department of Computer Science, University of British Columbia, Kelowna, BC, Canada
- 04:00 - 04:20pm: Resources for Encouraging Academically Challenged Students and Their Impact
Dewan Tanvir Ahmed
Department of Computer Science, University of North Carolina at Charlotte, North Carolina, USA
- 04:20 - 04:40pm: Introducing Automatic Verification Strategy in Online Study of Computational Science
Jun Zhang, Ruzong Fan, Fangyang Shen
Department of Computer Science and Engineering Technology, University of Maryland Eastern Shore, Princess Anne, Maryland, USA; Department of Biostatistics, Bioinformatics, & Biomathematics, Georgetown University, Washington, DC, USA; Department of Computer Systems Technology, New York City College of Technology, City University of New York, Brooklyn, New York, USA
- 04:40 - 05:00pm: Teaching and Learning Sorting Algorithms Using Animation
Yong Daniel Liang
Department of Computer Science, Georgia Southern University, Savannah, Georgia, USA

- 05:00 - 05:20pm: Using Assignment Incentives to Reduce Student Procrastination and Encourage Code Review Interactions
Kevin Wang, Ramon Lawrence
Department of Computer Science, University of British Columbia, Kelowna, BC, Canada
- 05:20 - 05:40pm: Understanding Teamwork in Dynamic Contexts: A Study in a Software Engineering Project Course
Sergio F. Ochoa, Maira Marques Samary, Luis Silvestre, and Roc Messeguer
Computer Science Department, University of Chile, Santiago, Chile; Computer Science Department, Boston College, Chestnut Hill, Massachusetts, USA; Computer Science Department, University of Talca, Curico, Chile; Department of Computer Architecture, Universitat Politecnica de Catalunya, Barcelona, Spain
- 05:40 - 06:00pm: A Computer Based Evaluation System: Design, Implementation and Results on General Chemistry
Carmen Elena Stoenoiu, Lorentz Jantschi
Technical University of Cluj-Napoca, Cluj-Napoca, Cluj, Romania
- 06:00 - 06:20pm: FREE SLOT

ON-LINE PRESENTATIONS (DECEMBER 13 - Wednesday)

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PLEASE NOTE THAT ALL TIMES MENTIONED IN THIS DOCUMENT ARE IN TERMS OF LAS VEGAS TIME-ZONE (USA Pacific Time-zone).

The conference has granted the request from the administrations of 9 institutions to live stream the online sessions for their classrooms (one connection per classroom / institution).

IMPORTANT: If possible, speakers are expected to connect at the beginning of the session in which their papers are scheduled for presentation. This will help the admin of the session to manage the logistical process. In case of questions about the online/ZOOM presentations during the conference days (Dec. 13-15, 2023), please contact csci.zoom@gmail.com

SESSION 1-ONLINE: PARALLEL & DISTRIBUTED COMPUTING (CSCI-RTPD) + CLOUD COMPUTING AND DATA CENTERS (CSCI-RTCC)
<https://www.american-cse.org/csci2023/RTPD>
<https://www.american-cse.org/csci2023/RTCC>
 December 13, 2023 (Wednesday); 08:00am - 10:00am
 (ONLINE - ZOOM)

- 08:00 - 08:20am: Hands-on Quantum Programming Labs for Beginners
 Janche Sang, Chansu Yu
 Department of Computer Science, Cleveland State University, Cleveland, Ohio, USA; Department of Electrical and Computer Engineering, Cleveland State University, Cleveland, Ohio, USA
- 08:20 - 08:40am: Enhancing Blockchain Network Scalability Through Parallelization and Aggregation Techniques: A Survey
 Ruth Olusegun, Bo Yang
 Department of Computer Science, Bowie State University, Bowie, Maryland, USA
- 08:40 - 09:00am: A Hybrid Intrusion Detection System Leveraging XGBoost and RNNs for Enhanced Anomaly Detection in Cloud Data Centers
 Asaad Althoubi, Hassan Peyravi
 Department of Computer Science, Kent State University, Kent, Ohio, USA
- 09:00 - 09:20am: Fusing SynerGATE for Improved Anomaly Detection in Cloud Data Centers
 Asaad Althoubi
 Department of Computer Science and Software Engineering, Miami University, Oxford, Ohio, USA
- 09:20 - 09:40am: On Premise Data Center vs Cloud
 Mihail Gaiuanu
 West University of Timisoara, Continental Automotive Romania, Timisoara, Romania
- 09:40 - 10:00am: P P P P P FREE SLOT

SESSION 2-ONLINE: ARTIFICIAL INTELLIGENCE (CSCI-RTAI) & COMPUTATIONAL SCIENCE
<https://www.american-cse.org/csci2023/RTAI>
December 13, 2023 (Wednesday); 10:00am - 12:40pm
(ONLINE - ZOOM)

- 10:00 - 10:20am: A Novel Use of Reinforcement Learning with Thompson Sampling for Predicting Click-Through Rates in Online Advertising
Beytullah Yildiz, Umair Haider
Atilim University, Ankara, Turkey
- 10:20 - 10:40am: Enhancing the K-means Algorithm Using Cluster Adjustment
Fadi Yamout
Computer Science and Information Technology,
Lebanese International University, Beirut, Lebanon
- 10:40 - 11:00am: LSTM-CNN: Network for Audio Signature Analysis in Noisy Environments
Praveen Damacharla, Hamid Rajabalipanah, and
Mohammad Hosein Fakhri
KineticAI Inc., The Woodlands, Texas, USA; Electrical
Eng., Iran University of Science & Technology, Tehran, Iran
- 11:00 - 11:20am: P P P P P FREE SLOT
- 11:20 - 11:40am: Systematic Literature Review of Machine Learning for IoT Security
Prathibha Kiran Yemmanuru, Jones Yeboah, Khakata Esther N. G.
School of Information Technology, University of Cincinnati,
Cincinnati, Ohio, USA
- 11:40 - 12:00pm: A Comparative Study of Machine Learning Techniques for Nuanced Weather Prediction
Prashanth Reddy Gangula, Jones Yeboah, Isaac Kofi Nti
School of Information Technology, University of Cincinnati,
Ohio, USA
- 12:00 - 12:20pm: Opinion Mining of Online Shopping Products Reviews Using Machine Learning
Aashritha Arra, Jones Yeboah, Isaac Kofi Nti
School of Information Technology, University of Cincinnati,
Ohio, USA
- 12:20 - 12:40pm: P P P P P Simplex Projection Based Dimension Reduction for Multiclass Classification
Hong Zhang
Department of Computer Science, Georgia Southern University,
Savannah, Georgia, USA

- SESSION 3-ONLINE: COMPUTATIONAL BIOLOGY (CSCI-RTCB) +
HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI) +
INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-RTOT)
December 13, 2023 (Wednesday); 12:40pm - 03:40pm
(ONLINE - ZOOM)**
- 12:40 - 01:00pm: Deep Learning on Hi-C Contact Data Predicts Biological Replicates
Alejandro Rodriguez Perez, Mary Lauren Benton
Department of Computer Science, Baylor University,
Waco, Texas, USA
- 01:00 - 01:20pm: An AI Interface System to NCBI SRA Experiment Data to Support Computational Biology Research
Anh Le, Lan Vu
Gunn High School, Palo Alto, California, USA;
VMware, Inc., Palo Alto, California, USA
- 01:20 - 01:40pm: Prediction of Genetic Biomarkers from RNA-Seq Dataset of Colon Cancer
Tijesunimi Adeyemi, Deborah Ezekiel, Sergio Diaz, Felix Sabb, Abdullah Abdul, Fitzroy Nembhard, Roshan Paudel
Department of Computer Science, Morgan State University, Baltimore, Maryland, USA; Department of Physics, University of Maryland Baltimore County, Maryland, USA;
Baltimore County Public School, Baltimore, Maryland, USA;
L3Harris Institute for Assured Information (L3HIAI), Florida Institute of Technology, Melbourne, Florida, USA
- 01:40 - 02:00pm: Medical Care Application Development Through Android Studio
Jason Lee, Nada Alsallami
Department of Computer Science,
Worcester State University, Massachusetts, USA
- 02:00 - 02:20pm: Processing Model for Fog Computing Applied to Internet of Medical Things (IoMT)
Leonardo Juan Ramirez Lopez, Engler Ramirez Maldonado, and Wilson Mauro Rojas Reales
Telecommunications Engineering, Universidad Militar Nueva Granada, Bogota DC, Colombia; Informatic Engineering, Universidad de Salamanca, Salamanca, Spain
- 02:20 - 02:40pm: Predicting the Blood Glucose Level using Transformers
Edgar Acuna, Roxana Aparicio
Mathematical Science Department, University of Puerto Rico at Mayaguez, Mayaguez, Puerto Rico; Industrial Engineering Department, University of Puerto Rico at Mayaguez, Mayaguez, Puerto Rico
- 02:40 - 03:00pm: Physiological Responsiveness to VR and Non-VR Environments
Alfia Pervez, Sakina Rao, Arshia Khan
Department of Computer Science,
University of Minnesota Duluth, Duluth, Minnesota, USA
- 03:00 - 03:20pm: Gender Differences in Emotional Responses to Stress During Problem Solving
Yagna Manasa Boyapati, Arshia Khan
Department of Computer Science,
University of Minnesota Duluth, Duluth, Minnesota, USA

03:20 - 03:40pm: Impact of MBSR Therapy on Stress in People with Cognitive Impairments, a Prisma Guided Review
Alfia Pervez, Arshia Khan
Department of Computer Science,
University of Minnesota Duluth, Duluth, Minnesota, USA

DECEMBER 14, 2023

THERE ARE THREE SETS OF CONCURRENT SESSIONS ON December 14, 2023; TWO are ON-SITE PRESENTATIONS (FACE-TO-FACE) IN BALLROOMS GALLERIA B-C AND GALLERIA D-E AND THE THIRD IS ONLINE (THE ZOOM LINKS are ALREADY PROVIDED TO SPEAKERS AND ALL REGISTERED AUTHORS).

7:20am - 5:00pm: REGISTRATION
(LOCATION: Lotus Ballrooms 2-3)

07:20 - 08-20am: CONTINENTAL BREAKFAST
(LOCATION: Lotus Ballrooms 2-3)

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 14, Thursday)

LOCATION: Ballrooms Galleria D-E

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08:20 - 09:05am: KEYNOTE: December 14, 2023, Thursday;
INTEGRATING ADVANCED AI ALGORITHMS WITH SCIENTIFIC ARTICLES;
LARGE LANGUAGE MODELS (LLMs) AND BEYOND
Dr. Soheyla Amirian
Faculty Fellow, The Institute for Artificial Intelligence;
Faculty Lecturer, School of Computing, University of Georgia;
Director, Applied Machine Intelligence Initiatives &
Education (AMIIE) Lab.; 2023 IEEE Atlanta Section Outstanding
Educator awardee;
The University of Georgia, School of Computing,
Athens, Georgia, USA
(LOCATION: Ballrooms Galleria D-E)

09:05 - 09:50am: KEYNOTE: December 14, 2023, Thursday;
THE FUTURE IS HERE: TOWARDS AN AI DRIVEN OPERATING SYSTEM
USING OBJECT MESSAGING AND INTELLIGENT OBJECTS (OMIO)
Massoud Alibakhsh
Co-Founder & CEO, OMADEUS
Atlanta, Georgia, USA
(LOCATION: Ballrooms Galleria D-E)

09:50 - 10:20am: BREAK (Refreshments)
(LOCATION: Lotus Ballrooms 2-3)

- SESSION 8A-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 11B-THU & ON-LINE SESSIONS)**
CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW) +
MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-RTMC)
Chairs: TBA
December 14, 2023 (Thursday); 10:20am - 12:00pm
(LOCATION: Ballrooms Galleria D-E)
- 10:20 - 10:40am: Information Security Paradigm Shift for a Connected World
Choong-Hee Han, Jae-Woo Lee, Adhikari Naresh
Chonnam National University; Korea Power Exchange, South Korea;
Dongguk University, South Korea;
Slippery Rock University, Pennsylvania, USA
- 10:40 - 11:00am: A Machine Learning Approach to Threat Hunting in Malicious
PDF Files
Haydar Teymourlouei, Vareva E. Harris
Department of Technology & Security, Bowie State University,
Bowie, Maryland, USA;
School of Advanced Studies, University of Phoenix, USA
- 11:00 - 11:20am: A 5G/6G Infrastructure for Secure, High-Performance,
Low-Latency Application Services
Jeffrey Wallace, Angelica Wallace, Miroslav Vukovic,
Toni Karimovic, Srdjan Kovacevic, Boris Snajder,
William Edwards, Junaid Islam
Rocket Technology Systems LLC, Washington, DC, USA
- 11:20 - 11:40am: Obfuscated Ransomware Family Classification Using Machine
Learning
William Cassel, Nahid Ebrahimi Majd
Department of Computer Science and Information Systems,
California State University San Marcos, California, USA
- 11:40 - 12:00pm: Active Admission Control in a P2P Distributed Environment for
Capacity Efficient Livestreaming in Mobile Wireless Networks
Andrei Negulescu, Weijia Shang
Computer Science and Engineering Department,
Santa Clara University, Santa Clara, California, USA
- 12:00 - 01:20pm: **LUNCH (On Your Own)**

SESSION 9A-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 12B-THU & ON-LINE SESSIONS)
COMPUTATIONAL INTELLIGENCE (CSCI-RTCI) +
ARTIFICIAL INTELLIGENCE (CSCI-RTAI)
Chairs: TBA
December 14, 2023 (Thursday); 01:20pm - 03:00pm
(LOCATION: Ballrooms Galleria D-E)

- 01:20 - 01:40pm: Artificial Intelligence - Enabled Deep Learning Model for Diabetes Prediction Using Deep Belief Network with Bayesian Optimization
 Jide Ebenezer Taiwo Akinsola, Sunday Adeola Ajagbe, Emmanuel Ajayi Olajubu, Azeezat Oluwayemisi Lawal, Ganiyu Adesola Aderounmu, Matthew Olusegun Adigun
 Department of Computer Sciences, First Technical University, Ibadan, Nigeria; Department of Computer and Industrial Engineering, First Technical University, Ibadan, Nigeria; Department of Computer Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria; Department of Computer Science, University of Zululand, Kwadlangezwa, South Africa
- 01:40 - 02:00pm: Creation and Analysis of a Natural Language Understanding Dataset for DoD Cybersecurity Policies (CSIAC-DoDIN V1.0)
 Ernesto Quevedo, Ana Paula Arguelles, Alejandro Rodriguez, Jorge Yero, Dan Pienta, Tomas Cerny, Pablo Rivas
 School of Engineering and Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA; Business School, Department of of Business, University of Tennessee, USA; School of Engineering and Computer Science, Department of Computer Science, University of Arizona, USA
- 02:00 - 02:20pm: Attribution Scores of BERT-Based SQL-Query Automatic Grading for Explainability
 Korn Sooksatra, Bikram Khanal, Pablo Rivas, Donald R. Schwartz
 School of Engineering and Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA; School of Computer Science & Mathematics, Department of Computing Technology, Marist College, Poughkeepsie, New York, USA
- 02:20 - 02:40pm: A Transfer Learning-Based New User Recognition for Minimizing Retraining Time in Edge Deep Learning
 Dong Hyuk Heo, Soon Ju Kang
 School of Electronic and Eletrical Engineering, Kyungpook National University, Daegu, Republic of Korea
- 02:40 - 03:00pm: Leadership Challenges and Strategies in the Era of AI Transformation
 Satpreet Singh
 National University, San Diego, California, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTER SESSIONS
December 14, 2023 (Thursday);
(LOCATION: Lotus Ballrooms 2-3)

0. Positive and Negative Effects of Muscle Force Assistance on Muscle Metabolic Cost During Normal Walking
Oh-Seok Kwon, Sang-Ho Lee, Dong-Ha Lee
Division of Intelligent Robot, DGIST, Daegu, Korea
0. Mobile Wellness Program for Nurses with Rotating Shifts Using Social Messenger Service: A Proposed Design
Sang-Ho Lee, Sanghun Yun, Dong-Ha Lee, Oh-Seok Kwon, and Jinung An
Division of Intelligent Robot and Convergence Research
Advanced Centre for Olfaction, DGIST, Daegu, Korea;
Division of Electronics and Information System, DGIST, Daegu, Korea; Division of Intelligent Robot, DGIST, Daegu, Korea
0. Evaluating and Reducing AI Model Group Disparity: An Analysis of COVID Test Outcomes in Children
Alexander Libin, Jonah Treitler, Yijun Shao
AIM AHEAD Consortium, Medstar Research Health Institute, Georgetown University, Washington, D.C., USA;
Thomas Jefferson High School for Science and Technology, Alexandria, Virginia, USA; Department of Clinical Research and Leadership, George Washington University, Washington D.C., USA
0. Detect & Adapt: A Resiliency Enhancement Mechanism for Space Computing Platforms
Shafkat Islam, Nagender Aneja, Ruy de Oliveira, Sandhya Aneja, Bharat Bhargava, Jason Hamlet, and Chris Jenkins
Purdue University, West Lafayette, Indiana, USA;
Federal Institute of Mato Grosso - IFMT, Brazil;
Marist College, Poughkeepsie, New York, USA;
Sandia National Laboratory, USA
0. Denoising Diffusion as a New Framework for Underwater Images
Nilesh Jain, Elie Alhajjar
Engineering and Applied Sciences, RAND Corporation, Arlington, Virginia, USA; Computer Science and Applied Mathematics, University of Witwatersrand, Johannesburg, South Africa
0. Modeling and Simulation of Dynamic Roadwheel Relationships for Tracked Vehicles using Machine Learning
Jeremy Mange, Jacob Brendle
US Army, Ground Vehicle Systems Center, DEVCOM GVSC, Warren, Michigan, USA

- SESSION 10A-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 13B-THU & ON-LINE SESSIONS)**
ARTIFICIAL INTELLIGENCE (CSCI-RTAI)
Chairs: TBA
December 14, 2023 (Thursday); 03:40pm - 04:40pm
(LOCATION: Ballrooms Galleria D-E)
- 03:40 - 04:00pm:** CNN-DRL with Shuffled Features in Finance
Sina Montazeri, Akram Mirzaeinia, Amir Mirzaeinia
University of North Texas, Denton, Texas, USA
- 04:00 - 04:20pm:** Scalable Actions in CNN-based Deep Reinforcement Learning
in Finance
Sina Montazeri, Akram Mirzaeinia, Haseebullah Jumakhan,
and Amir Mirzaeinia
University of North Texas, Denton, Texas, USA
- 04:20 - 04:40pm:** Classification of Information Display Types using Graph
Neural Networks
Yuehan Yin, Michael P. Mcguire, Yahya Alqahtani,
Jinjuan Heidi Feng, Joyram Chakraborty
Department of Mathematics and Computer Science,
La Salle University, Philadelphia, PA, USA;
Department of Computer and Information Sciences,
Towson University, Towson, Maryland, USA;
College of Computer Science and Information Technology,
Jazan University, Jazan, Saudi Arabia
- 04:40 - 06:00pm:** **KEYNOTE - INVITED TUTORIAL**
EXPLAINING AND APPLYING GROVER'S QUANTUM ALGORITHM
Prof. Leon Deligiannidis
Wentworth Institute of Technology, Boston,
Massachusetts, USA
(LOCATION: Ballrooms Galleria D-E)
- 07:00 - 09:00pm:** **CONFERENCE RECEPTION DINNER**
December 14, 2023 (Thursday); 07:00pm - 09:00pm
(LOCATION: Velvet Room)

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 14, Thursday)**LOCATION: Ballrooms Galleria B-C**

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**SESSION 11B-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 8A-THU & ON-LINE SESSIONS)
HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI) +
COMPUTATIONAL BIOLOGY (CSCI-RTCB)****Chairs: TBA****December 14, 2023 (Thursday); 10:20am - 12:00pm****(LOCATION: Ballrooms Galleria B-C)**

- 10:20 - 10:40am: Deep Sensitivity Analysis for Objective-Oriented Combinatorial Optimization
Ganga Gireesan, Nisha Pillai, Michael J. Rothrock, Bindu Nanduri, Zhiqian Chen, Mahalingam Ramkumar
Mississippi State Univeristy, Mississippi State, USA;
USDA-ARS, Athens, Georgia, USA
- 10:40 - 11:00am: The Impact of Family History Technology on Social and Emotional Well-being
Mark Clement, Joseph Price, Kasey Buckles, Nat Poulson, Joseph Steed, Emma Ausman, Ammon Quackenbush, Lawry Sorenson, Kymberly Larson, Brandon Southwick
Department of Computer Science, Brigham Young University, Provo, Utah, USA; Department of Economics, Brigham Young University, Provo, Utah, USA; Department of Economics, University of Notre Dame, Notre Dame, Indiana, USA; Family History Technology Laboratory, Brigham Young University, Provo, Utah, USA
- 11:00 - 11:20am: Amazing Power of DINOv2 for Automatic Diagnosis of 12-Lead ECG
Kushal Pal Singh, B. Chandra, Prem Kumar Kalra, Rajiv Narang
ANSK School of Information Technology, Indian Institute of Technology Delhi, New Delhi, India; Department of Computer Science and Engineering, Indian Institute of Technology Delhi, New Delhi, India; Department of Cardiology, All India Institute of Medical Sciences, New Delhi, India
- 11:20 - 11:40am: Allergic Contact Dermatitis Detection with Machine Learning
Kyriakos S. Panagiotidis, Ioannis A. Vezakis, and George K. Matsopoulos
National Technical University of Athens, Athens, Greece
- 11:40 - 12:00pm: Wearable Technology for Fall Prevention-Data Collection Method and Hardware Optimization
Chris Cheng Zhang, Mark Yining Liu, Kevin Zhang (Xinrui Dai)
Department of Research and Development, Canada Youth Robotics Club, Vancouver, BC, Canada; Sir Winston Churchill Secondary School, Vancouver, BC, Canada;
University of British Columbia, Vancouver, BC, Canada
- 12:00 - 01:20pm: **LUNCH (On Your Own)**

- SESSION 12B-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 9A-THU & ON-LINE SESSIONS)**
SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-RTPC)
Chairs: TBA
December 14, 2023 (Thursday); 01:20pm - 03:00pm
(LOCATION: Ballrooms Galleria B-C)
- 01:20 - 01:40pm: 3Describe-Creating Tangible AR (Augmented Reality) Objects using Depth Camera
Kevin Zhang, Mike Tianci Ye, Chris Cheng Zhang
Department of Research and Development, Canada Youth Robotics Club, Vancouver, BC, Canada; Saint George's School, Vancouver, BC, Canada;
University of British Columbia, Vancouver, BC, Canada
- 01:40 - 02:00pm: DeepCT-SI: Deep Learning Algorithm for Computed Tomography Source Identification
Farid Ghareh Mohammadi, Ronnie Sebro
Department of Radiology, Center for Augmented Intelligence, Mayo Clinic, Jacksonville, Florida, USA
- 02:00 - 02:20pm: Thermal Face Image Classification using Deep Learning Techniques
Prosenjit Chatterjee, ANK Zaman
Department of Computer Science and Cyber Security, Southern Utah University, Cedar City, Utah, USA; Department of Physics and Computer Science, Wilfrid Laurier University, Waterloo ON, Canada
- 02:20 - 02:40pm: The Reverse-Transition Weighting Filter for Effective Edge Detection for Noisy Color Images
Seth T. Richey, Luke J. Hand, Owen C. Burton, James B. Perdue, Penelope Prochnow, Jason Shin, Seongjai Kim
Department of Mathematics and Statistics, Mississippi State University, Mississippi State, Mississippi, USA;
Department of Mechanical Engineering, Mississippi State University, Mississippi State, Mississippi, USA;
Department of Electrical Engineering, Mississippi State University, Mississippi State, Mississippi, USA;
Data Science, Mississippi State University, Mississippi State, Mississippi, USA; Department of Supply Chain Logistics, Mississippi State, Mississippi, USA
- 02:40 - 03:00pm: Steganalysis of Medical Radiographs for Radiographic Machine Identification
Farid Ghareh Mohammadi, Ronnie Sebro
Department of Radiology, Center for Augmented Intelligence, Mayo Clinic Jacksonville, Florida, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTER SESSIONS
December 14, 2023 (Thursday);
(LOCATION: Lotus Ballrooms 2-3)

0. Positive and Negative Effects of Muscle Force Assistance on Muscle Metabolic Cost During Normal Walking
Oh-Seok Kwon, Sang-Ho Lee, Dong-Ha Lee
Division of Intelligent Robot, DGIST, Daegu, Korea
0. Mobile Wellness Program for Nurses with Rotating Shifts Using Social Messenger Service: A Proposed Design
Sang-Ho Lee, Sanghun Yun, Dong-Ha Lee, Oh-Seok Kwon, and Jinung An
Division of Intelligent Robot and Convergence Research
Advanced Centre for Olfaction, DGIST, Daegu, Korea;
Division of Electronics and Information System, DGIST, Daegu, Korea; Division of Intelligent Robot, DGIST, Daegu, Korea
0. Evaluating and Reducing AI Model Group Disparity: An Analysis of COVID Test Outcomes in Children
Alexander Libin, Jonah Treitler, Yijun Shao
AIM AHEAD Consortium, Medstar Research Health Institute, Georgetown University, Washington, D.C., USA;
Thomas Jefferson High School for Science and Technology, Alexandria, Virginia, USA; Department of Clinical Research and Leadership, George Washington University, Washington D.C., USA
0. Detect & Adapt: A Resiliency Enhancement Mechanism for Space Computing Platforms
Shafkat Islam, Nagender Aneja, Ruy de Oliveira, Sandhya Aneja, Bharat Bhargava, Jason Hamlet, and Chris Jenkins
Purdue University, West Lafayette, Indiana, USA;
Federal Institute of Mato Grosso - IFMT, Brazil;
Marist College, Poughkeepsie, New York, USA;
Sandia National Laboratory, USA
0. Denoising Diffusion as a New Framework for Underwater Images
Nilesh Jain, Elie Alhajjar
Engineering and Applied Sciences, RAND Corporation, Arlington, Virginia, USA; Computer Science and Applied Mathematics, University of Witwatersrand, Johannesburg, South Africa
0. Modeling and Simulation of Dynamic Roadwheel Relationships for Tracked Vehicles using Machine Learning
Jeremy Mange, Jacob Brendle
US Army, Ground Vehicle Systems Center, DEVCOM GVSC, Warren, Michigan, USA

- SESSION 13B-THU: (CONCURRENT SESSION WITH ON-SITE SESSION 10A-THU & ON-LINE SESSIONS)**
SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-RTPC)
Chairs: TBA
December 14, 2023 (Thursday); 03:40pm - 04:40pm
(LOCATION: Ballrooms Galleria B-C)
- 03:40 - 04:00pm: Deblurring ICF Images using Hybrid Iterative Regularization Techniques
Tuwanda McKenzie, Naima Naheed
Department of Biology, Benedict College, Columbia, South Carolina, USA; Department of Mathematics, Benedict College, Columbia, South Carolina, USA
- 04:00 - 04:20pm: Localization of Left Ventricular Epicardium and Endocardium Using Convolutional Neural Network and Transfer Learning
A. F. M. Saifuddin Saif, Trung Duong
Department of Computer Science and Information Systems, West Virginia University Institute of Technology, Beckley, West Virginia, USA; School of Engineering, Colorado State University Pueblo, Colorado, USA
- 04:20 - 04:40pm: Realtime Sign Language Recognition Using Computer Vision and AI
Gabriel Serrano, Daehan Kwak
Department of Computer Science and Technology, Kean University, Union, New Jersey, USA
- 04:40 - 06:00pm: **KEYNOTE - INVITED TUTORIAL**
EXPLAINING AND APPLYING GROVER'S QUANTUM ALGORITHM
Prof. Leon Deligiannidis
Wentworth Institute of Technology, Boston, Massachusetts, USA
(GO TO: ---> LOCATION: Ballrooms Galleria D-E)
- 07:00 - 09:00pm: **CONFERENCE RECEPTION DINNER**
December 14, 2023 (Thursday); 07:00pm - 09:00pm
(LOCATION: Velvet Room)

ON-LINE PRESENTATIONS (DECEMBER 14 - Thursday)

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SESSION 4-ONLINE: Health Informatics and Medical Systems (CSCI-RTHI) + COMPUTATIONAL BIOLOGY (CSCI-RTCB) + Signal & Image Processing, Computer Vision & Pattern Recognition (CSCI-RTPC)
<https://www.american-cse.org/csci2023/RTHI>
<https://www.american-cse.org/csci2023/RTCB>
<https://www.american-cse.org/csci2023/RTPC>
 December 14, 2023 (Thursday); 08:00am - 10:20am
 (ONLINE - ZOOM)

- 08:00 - 08:20am: A Machine Learning Pipeline to Analyse Multispectral and Hyperspectral Images
 Damiano Azzolini, Alice Bizzarri, Michele Fraccaroli, Francesco Bertasi, Evelina Lamma
 Dipartimento di Scienze dell'Ambiente e della Prevenzione, University of Ferrara, Ferrara, Italy;
 Dipartimento di Ingegneria, University of Ferrara, Ferrara, Italy
- 08:20 - 08:40am: Autonomous Emergency Triage Support System
 Ol'Tunde Ashaolu, William Lyons, Ioannis Stefanakos, Radu Calinescu, Ibrahim Habli, Victoria Hodge, Chiara Picardi, Katherine Plant, Beverley Townsend
 York and Scarborough Teaching Hospitals, NHS Foundation Trust, Hull-York Medical School, York, UK;
 Department of Computer Science, University of York, York, UK;
 Faculty of Engineering and Physical Sciences, University of Southampton, Southampton, UK
- 08:40 - 09:00am: Early Detection of Pressure Ulcers: Considering Dynamic Phenomena and Temperature
 Nicolas Gillard, Pauline Coignard, Jacques Kerdraon, and Willy Allegre
 Direction R&I, Capgemini Engineering, Saint Jacques De La Lande, France; Centre Mutualiste de Reeducation et de Readaptation Fonctionnelles de Kerpape, Ploemeur, France; CoWork'HIT, Ploemeur, France

- 09:00 - 09:20am: An Improved Time-Based Encryption Key Rotation Scheme for Healthcare Databases
Ellie Pin-Yu Chen, Quincy Wu, Meng-Shuo Shen
Department of Computer Science and Information Engineering,
National Chi Nan University, Puli Township, Taiwan;
Puli Christian Hospital, Puli Township, Taiwan
- 09:20 - 09:40am: StainSegNet: Stain Normalization and Segmentation - Driven Colorectal Tumor Tissues Classification
Ponnarasee B K, Lalithamani N
Department of Computer Science and Engineering, Amrita
School of Computing, Coimbatore, India
- 09:40 - 10:00am: Blood Cell Detection Using Deep Learning on Mobile Platforms
Nihar Jain, Fahim Hasan Khan
University of California Santa Cruz, California, USA
- 10:00 - 10:20am: The Most Frequencies of Gene Trees Reveal Insights into Supporting Lungfish as the Closest Living Relative of Land Vertebrates
Yunfeng Shan, Luwei Tang, Xiaoliang Wang, Yongsheng Xie, and Youjun Zhou
College of Mathematics & Computer Sciences, Guangxi Science and Technology Normal University, Laibin, China;
Department of Genomics, iREG, Toronto, Ontario, Canada

SESSION 5-ONLINE: EDUCATION (CSCI-RTED)
(Includes Use of ChatGPT + Online, STEM Education, ...)
<https://www.american-cse.org/csci2023/RTED>
December 14, 2023 (Thursday); 10:20am - 12:40pm
(ONLINE - ZOOM)

- 10:20 - 10:40am: Examining the Potential of Micro-Aerial Vehicles for Tree Inspections as Climate Change Education Tools
Thomas Menkhoff, Benjamin Gan, Foong Shaohui
Lee Kong Chian School of Business, Singapore Management University, Singapore; School of Computing and Information Systems, Singapore Management University, Singapore;
Singapore University of Technology & Design, Engineering Product Development, Singapore
- 10:40 - 11:00am: Design and Delivery of Online Scaffolding Support in Quantitative Subjects
Mary Ruth Freislich, Alan Bowen-James
University of New South Wales, Sydney, Australia;
Crown Institute of Higher Education, Sydney, Australia
- 11:00 - 11:20am: Design of an Introductory Java Parallel Programming Course for Non-Java Students
Xuguang Chen
Saint Martin's University, Lacey, Washington, USA
- 11:20 - 11:40am: Curriculum for a New Five-Year Academic Program in Intelligent Systems Engineering and Software Engineering
Ashu M. G. Solo
Maverick Trailblazers Inc. Wilmington, Delaware, USA

11:40 - 12:00pm: A Data Governance Literature Review in Education Sector
Maassoumeh Javadi Baygi, Mandy S. M. Chung, Nushin G. Fard,
and Mohammed Miskat
School of Public and Global Affairs,
Fairleigh Dickinson University, Vancouver, BC, Canada

12:00 - 12:20pm: An Extended Framework of Factors Across CAPE that Support
K-12 Computer Science Education
Monica M. McGill, Isabella Gransbury, Sarah Heckman,
Jennifer Rosato, Leigh Ann Delyser
CSEdResearch.org; North Carolina State University,
North Carolina, USA; University of Minnesota Twin Cities,
Minnesota, USA; CSforALL.org

12:20 - 12:40pm: Undergraduate Service Course Research Infusion
Muhittin Yilmaz
Electrical Engineering and Computer Science Department,
Texas A&M University-Kingsville, Kingsville, Texas, USA

SESSION 6-ONLINE: ARTIFICIAL INTELLIGENCE (CSCI-RTAI)
<https://www.american-cse.org/csci2023/RTAI>
December 14, 2023 (Thursday); 12:40pm - 03:20pm
(ONLINE - ZOOM)

12:40 - 01:00pm: Enhancing Drug Safety Documentation Search Capabilities with
Large Language Models: A User-Centric Approach
Jeffery L. Painter, Olivia Mahaux, Marco Vanini, Vijay Kara,
Christie Roshan, Marcin Karwowski,
Venkateswara Rao Chalamalasetti, Andrew Bate
GlaxoSmithKline, Durham, North Carolina, USA;
GlaxoSmithKline, Wavre, Belgium; GlaxoSmithKline, London, UK;
GlaxoSmithKline, Poznan, Poland

01:00 - 01:20pm: Students' Flexibility in Online Education Using Machine
Learning
Narendra Thokala, Jones Yeboah, Isaac Kofi Nti
University of Cincinnati, Cincinnati, Ohio, USA

01:20 - 01:40pm: SOCIALBERT - A Transformer Based Model used for Detection of
social Engineering Characteristics
Michael Aboobor, Darsana P. Josyula
Department of Computer Science, Bowie State University,
Bowie, Maryland, USA

01:40 - 02:00pm: A Siamese Network for Autonomous Classification of
Battlefield Ground Vehicles Using Acoustic Data
Yao Houkpati, Kenneth M'.Bale, Marvin Conn, Geoffrey Goldman,
Tung-Duong Tran-Luu, Sreenivasan Ramasamy Ramamurthy, and
Darsana Josyula
Department of Computer Science, Bowie State University,
Bowie, Maryland, USA;
US Army Research Laboratory, DEVCOM, Adelphi, Maryland, USA

02:00 - 02:20pm: Generative and Responsible AI - LLMs Use in FinTech Cyber
Security
Atif Farid Mohammad, Ram Agarwal, Tony Colombo, Jess Vigorito
Global Technology Solutions, USA

- 02:20 - 02:40pm: Text Summarization Evaluation using Semantic Probability Distributions
Anh Le, Fred Wu, Lan Vu, Thanh Le
Henry M. Gunn High School, Palo Alto, California, USA;
Department of Computer Science, West Virginia State University,
West Virginia, USA; UEH University, Hochiminh City, Vietnam
- 02:40 - 03:00pm: Leveraging Large Language Models for Web3D: Applications, Challenges, and Future Directions
Vinayak Tanksale
Department of Computer Science, Ball State University,
Muncie, Indiana, USA
- 03:00 - 03:20pm: Smart Temperature Management in Buildings using Predictive Analysis by Machine Learning Algorithms
Ritika Dharmkar, Jones Yeboah, Isaac Kofi Nti
University of Cincinnati, Cincinnati, Ohio, USA
- SESSION 7-ONLINE: COMPUTATIONAL SCIENCE (CSCI-RTCS) + CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW) + MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-RTMC) + AI**
<https://www.american-cse.org/csci2023/RTCS>
<https://www.american-cse.org/csci2023/RTCW>
<https://www.american-cse.org/csci2023/RTMC>
December 14, 2023 (Thursday); 03:20pm - 05:20pm
(ONLINE - ZOOM)
- 03:20 - 03:40pm: Quantum Neural Network Classification Based Cyber Threat Detection in Virtual Environment
Sarvapriya Tripathi, Himanshu Upadhyay, Jayesh Soni
Electrical and Computer Engineering,
Florida International University, Miami, Florida, USA
- 03:40 - 04:00pm: Simulation Model for a Bent Pipe Satellite Network using DVB-S2/RCS2 Standards
Gustavo Chafra, Nelson Salgado, Juan Chafra
Engineering Faculty, PUCE, Quito, Ecuador
- 04:00 - 04:20pm: VoIP Steganography using iLBC Start State Residuals
Ting-Xiao Miaw, Quincy Wu
Department of Computer Science and Information Engineering,
National Chi Nan University, Nantou, Taiwan
- 04:20 - 04:40pm: Fortifying Network Security: Pioneering Digital Twin Technology for Proactive Anomaly Detection
Patrick Ansah, Sumit Tatarave, Jyoti Kumari, Caroline John
Department of Cybersecurity, University of West Florida, Florida, USA;
Kalinga Institute of Industrial Technology, Bhubaneswar, India; Section of
Director Teacher, Byjus FutureSchool, Maharashtra, India
- 04:40 - 05:00pm: Defending Quantum Neural Networks against Adversarial Attacks with Homomorphic Data Encryption
Ellen Wang, Helena Chaine, Xiaodi Wang, Avi Ray,
and Tyler Wooldridge
Department of Mathematics, Western Connecticut State
University, Danbury, Connecticut, USA; Department of
Mathematics, New York University, New York, USA
- 05:00 - 05:20pm: Mid-Term Seasonal Arctic Sea Ice Concentration Forecasting Based on CNN-ConvLSTM and Wavelet Multi-Scale Deep Learning Algorithms
Andrew Li, Xiaodi Wang
Western Connecticut State University, Danbury, Connecticut, USA

DECEMBER 15, 2023

THERE ARE THREE SETS OF CONCURRENT SESSIONS ON December 15, 2023; TWO are ON-SITE PRESENTATIONS (FACE-TO-FACE) IN BALLROOMS GALLERIA B-C AND GALLERIA D-E AND THE THIRD IS ONLINE (THE ZOOM LINKS are ALREADY PROVIDED TO SPEAKERS AND ALL REGISTERED AUTHORS).

7:20am - 5:00pm: REGISTRATION
(LOCATION: Lotus Ballrooms 2-3)

07:20 - 08-20am: CONTINENTAL BREAKFAST
(LOCATION: Lotus Ballrooms 2-3)

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 15, Friday)
LOCATION: Ballrooms Galleria D-E

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SESSION 14A-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 19B-FRI+ & ON-LINE SESSIONS)
COMPUTATIONAL INTELLIGENCE (CSCI-RTCI) +
ARTIFICIAL INTELLIGENCE (CSCI-RTAI)
Chairs: TBA
December 15, 2023 (Friday); 08:20am - 10:00am
(LOCATION: Ballrooms Galleria D-E)

08:20 - 08:40am: Three-way Clustering: An Advanced Soft Clustering Approach
JingTao Yao
Department of Computer Science, University of Regina, Canada

08:40 - 09:00am: Using Explainable AI and Genetic Algorithms to Drive the
Discovery of Novel Antiviral Molecules
Vishakha Singh, Ritesh Sharma, Sushant Kumar, and
Sanjay Kumar Singh
Department of CSE, IIT (BHU) Varanasi, Varanasi, India;
Department of ICT, Manipal Institute of Technology, India

09:00 - 09:20am: Water Quality Index (WQI) Prediction Using Machine Learning
Algorithms
Kunyanuth Kularbphettong, Phanu Waraporn, Nareenart Raksuntorn,
Rujijan Vivhivanives, Chanyapat Sangsuwon
Computer Science Program, Suan Sunandha Rajabhat University,
Bangkok, Thailand; Robotics Engineering Program,
Suan Sunandha Rajabhat University, Bangkok, Thailand;
Faculty of Science and Technology,
Suan Sunandha Rajabhat University, Bangkok, Thailand

09:20 - 09:40am: Artificial Intelligence in Cybersecurity: A Dual-Nature
Technology
Abdulrahman Yarali, Evan Rodocker, Christie Gora
School of Engineering, Murray State University University,
Kentucky, USA; Computer Information Technology,
University of Cumberland, Williamsburg, Kentucky, USA

09:40 - 10:00am: CNN-DRL with Shuffled Features in Finance
Sina Montazeri, Akram Mirzaeina, Amir Mirzaeina
University of North Texas, Denton, Texas, USA

- 10:00 - 10:20am: BREAK (Refreshments)**
(LOCATION: Lotus Ballrooms 2-3)
- SESSION 16A-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 21B-FRI & ON-LINE SESSIONS)**
Cyber Warfare, Cyber Defense, & Cyber Security (CSCI-RTCW)
Chairs: TBA
December 15, 2023 (Friday); 10:20am - 12:20pm
(LOCATION: Ballrooms Galleria D-E)
- 10:20 - 10:40am: P P P P P FREE SLOT**
- 10:40 - 11:00am: P P P P P Enhancing Cloud Service Failure Prediction via Temporal Relationship Distillation**
Sharmen Akhter, Md. Imtiaz Hossain, Md. Delowar Hossain,
Nosin Ibna Mahbub, Eui-Nam Huh
Computer Science and Engineering, Kyung Hee University,
Yongin-si, South Korea
- 11:00 - 11:20am: A Literature Survey And Analysis Of Defending Cyber Attacks Targeting Iot In Critical Infrastructure**
Ali Al-Sinayyid, Kadiyala Sasidhar, Md Julifiker Ali Jewel,
and Venkatesh Mannuru
Department of Mathematics and Computer Science,
West Virginia State University, Institute, West Virginia, USA
- 11:20 - 11:40am: Machine Learning Systems for Connected Vehicles**
Allen Austen Riffiee, Ben Cyphers, Guillermo Francia, III,
and Dallas Snider
Center for Cybersecurity, University of West Florida,
Pensacola, Florida, USA; ACES SFS Program, University of
West Florida, Pensacola, Florida, USA; IT Department,
University of West Florida, Pensacola, Florida, USA
- 11:40 - 12:00pm: Analytical Study for Cybersecurity Attacks and Defenses Characteristics**
Ali Al-Sinayyid, Kadiyala Sasidhar, Md Julifiker Ali Jewel,
and Venkatesh Mannuru
Department of Mathematics and Computer Science,
West Virginia State University, Institute, West Virginia, USA
- 12:00 - 12:20pm: Defending Characteristics and Attribution Analysis for Phishing Attacks**
Ali Al-Sinayyid, Kadiyala Sasidhar, Md Julifiker Ali Jewel,
Venkatesh Mannuru
Department of Mathematics and Computer Science,
West Virginia State University, Institute, West Virginia, USA
- 12:20 - 01:20pm: LUNCH (On Your Own)**

- SESSION 17A-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 22B-FRI+ & ON-LINE SESSIONS)
SOFTWARE ENGINEERING (CSCI-RTSE)
December 15, 2023 (Friday); 01:20pm - 03:20pm
(LOCATION: Ballrooms Galleria D-E)**
- 01:20 - 01:40pm: DEF-PIPE: Domain Specific Language Visualization for Big Data Pipelines
Amirhossein Layegh Kheirabadi, Vlado Mitrovic, Khoa Dinh, Yilin Chang, Mihhail Matskin
Department of Computer Science, Royal Institute of Technology, KTH, Stockholm, Sweden
- 01:40 - 02:00pm: We're Drowning in Errors
Max Maurer, Peter M. Maurer
IBM Corporation (Retired), Gardener, New York, USA;
Department of Computer Science, Baylor University, Waco, Texas, USA
- 02:00 - 02:20pm: Identifying Code Quality Issues for Undergraduate Students Using Static Analysis and NLP
Essa Imhmed, Edgar Ceh-Varela, Scott Kilgore
Department of Mathematical Sciences, Eastern New Mexico University, Portales, New Mexico, USA
- 02:20 - 02:40pm: Defending the Heap: Diagnosing Undefined Behavior in Dynamic Memory with jkmallocc
Jakob Kaivo, Thomas Devine
Lane Department of Computer Science & Electrical Engineering, West Virginia University, Morgantown, West Virginia, USA
- 02:40 - 03:00pm: Mobile Application Development for Required Daily Nutrition Intake Calculation for Thai Elderly
Nuntaporn Aukkanit, Shutchapol Chopvitayakun, Supatchalee Sirichokworrakit, Jarawan Chutrtong, and Kunyanuth Kularbphettong
Department of Food Science & Technology, Faculty of Science and Technology, Suan Sunandha Rajabhat University, Bangkok, Thailand; Department of Information Technology, Faculty of Science and Technology, Suan Sunandha Rajabhat University, Bangkok, Thailand; Department of Industrial Microbiology, Faculty of Science and Technology, Suan Sunandha Rajabhat University, Bangkok, Thailand; Department of Computer Science, Faculty of Science and Technology, Suan Sunandha Rajabhat University, Bangkok, Thailand
- 03:00 - 03:20pm: Cartoon Extraction Mechanism via UML Models based on Natural Language Requirement Specs
Janghwan Kim, Chansol Park, Woosung Jang, R. Young Chul Kim
Software Engineering Laboratory, Hongik University, Sejong, Republic of Korea
- 03:20 - 03:40pm: **BREAK (Refreshments) & POSTER SESSIONS
(LOCATION: Lotus Ballrooms 2-3)**

SESSION 18A-FRI: HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI)

December 15, 2023 (Friday); 03:40pm - 06:20pm
(LOCATION: Ballrooms Galleria D-E)

- 03:40 - 04:00pm: TransONet: Automatic Segmentation of Vasculature in Computed Tomographic Angiograms Using Deep Learning
 Alireza Bagheri Rajeoni, Breanna Pederson, Ali Firooz, Hamed Abdullahi, Andrew K. Smith, Daniel G. Clair, Susan M. Lessner, Homayoun Valafar
 Computer Science & Engineering, University of South Carolina, Columbia, South Carolina, USA; Biomedical Engineering, University of South Carolina, School of Medicine, Columbia, South Carolina, USA; Surgery, Vanderbilt University, Nashville, Tennessee, USA; Cell Biology & Anatomy, University of South Carolina, School of Medicine, Columbia, South Carolina, USA
- 04:00 - 04:20pm: Brain-Inspired Visual Odometry: Balancing Speed and Interpretability through a System of Systems Approach
 Habib Bolorchi Tabrizi, Christopher Crick
 Department of Computer Science, Oklahoma State University, Oklahoma, USA
- 04:20 - 04:40pm: Image Compression and Decompression Framework Based on Latent Diffusion Model for Breast Mammography
 InChan Hwang, MinJae Woo
 School of Data Science & Analytics, Kennesaw State University, Kennesaw, Georgia, USA
- 04:40 - 05:00pm: Exploring Permanence and Uniqueness of EEG Brain Signals as a Biometric Signature, Part-I: Template-based Techniques
 Omer Muhammet Soysal, Muhammed Esad Oztemel
 Department of Computer Science, Southeastern Louisiana University, Hammond, Louisiana, USA; Division of Electrical and Computer Engineering, Louisiana State University Baton Rouge, Louisiana, USA
- 05:00 - 05:20pm: Exploring Permanence and Uniqueness of EEG Brain Signals as a Biometric Signature, Part-II: Statistical Techniques
 Muhammed Esad Oztemel, Omer Muhammet Soysal
 Department of Computer Science, Southeastern Louisiana University, Hammond, Louisiana, USA; Division of Electrical and Computer Engineering, Louisiana State University Baton Rouge, Louisiana, USA
- 05:20 - 05:40pm: Statistical Analysis of Cross-Correlation Index for Identifying Abnormal ECG Signals
 Joana Florescano Olguin, Daniela M. Martinez, Norma A. Barboza Tello, Irma Uriarte Ramirez
 School of Sciences of Engineering and Technology, Autonomous University of Baja California, Mexico
- 05:40 - 06:00pm: A Visualization Model for Classification of Human Personality through Bioelectricity Pattern Analysis
 Janghwan Kim, Woosung Jang, R. Young Chul Kim
 Software Engineering Laboratory, Hongik University, Sejong, Republic of Korea
- 06:00 - 06:20pm: **CLOSING REMARKS**
(LOCATION: Ballrooms Galleria D-E)

ON-SITE PRESENTATIONS & ACTIVITIES (DECEMBER 15, Friday)**LOCATION: Ballrooms Galleria B-C**

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**SESSION 19B-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 14A-FRI & ON-LINE SESSIONS)
SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN
RECOGNITION (CSCI-RTPC)****December 15, 2023 (Friday); 08:20am - 09:20am****(LOCATION: Ballrooms Galleria B-C)**

08:20 - 08:40am: P P P P P FREE SLOT

08:40 - 09:00am: P P P P P GERRS: Removing Ghost Effects from Real-World Scenarios in
3D Pose Estimation via Zero-Shot Inference Approach
Md Imtiaz Hossain, Sharmen Akhter, Md Nosin Ibna Mahbub,
Md Delowar Hossain, Sungjun Yang, Choong Seon Hong, and
Eui-Nam Huh
Computer Science and Engineering, Kyung Hee University,
Yongin-si, South Korea; SIGONGtech, Bundang-gu, Seongnam-si,
Gyeonggi-do, South Korea

09:00 - 09:20am: Object Localization Using Vision Transformer with a Loss
Function Based on IOU and Mean Squared Error
Hong Cheng, Wen Cheng
Department of Math and Computer Science,
Southern Arkansas University, Magnolia, Arkansas, USA

**SESSION 20B-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 15A-FRI+ & ON-LINE SESSIONS)
INTERNET OF THINGS & INTERNET OF EVERYTHING (CSCI-RTOT)
December 15, 2023 (Friday); 09:20am - 11:00am
(LOCATION: Ballrooms Galleria B-C)**

09:20 - 09:40am: An Enhanced Lightweight Hash-Chain-Based Multi-Node Mutual
Authentication Algorithm for Large and Dense IoT Networks
Shengli Yuan, Randy Phan-Huynh, Tyler Thornton
University of Houston-Downtown, Houston, Texas, USA

09:40 - 10:00am: Data Protection and Recovery Plan for Securing Home IoT Domain
Syed Rizvi, James Davis, Shane Reigert, Mark Ihnat
College of Information Sciences and Technology,
Pennsylvania State University, Pennsylvania, USA

**10:00 - 10:20am: BREAK (Refreshments)
(LOCATION: Lotus Ballrooms 2-3)**

10:20 - 10:40am: ISAC: IoT-Enabled Smart Attendance Check
Alana Ceden, Zachary Biernat, Reema Alotaibi, Andrew Jung
Department of Computing Sciences, University of Hartford,
West Hartford, Connecticut, USA

10:40 - 11:00am: IoT Lightweight Session Key Exchange to Improve
Security Scheme
Ahmad AlKurdi, Sa'ed Abed
Computer Engineering Department, Kuwait University,
Kuwait City, Kuwait

**SESSION 21B-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 16A-FRI & ON-LINE SESSIONS)
SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-RTNA)
December 15, 2023 (Friday); 11:00am - 12:20pm
(LOCATION: Ballrooms Galleria B-C)**

- 11:00 - 11:20am: Sentiment Analysis of Twitter Posts on Global Conflicts
Ujwal Sasikumar, Ank Zaman, Abdul-Rahman Mawlood-Yunis,
and Prosenjit Chatterjee
School of Workforce Development, Conestoga College ITAL,
Kitchener ON, Canada; Department of Physics and Computer
Science, Wilfrid Laurier University, Waterloo, ON, Canada;
Department of Computer Science and Cyber Security,
Southern Utah University, Cedar City, Utah, USA
- 11:20 - 11:40am: A Study of User Perceptions of News Media Labeling to Limit
the Spread of Misinformation
Jessica Sietsema, Khalil Ghoseyni, Chase Condron,
Kimberly Saks, Matthew Spradling
College of Innovation and Technology,
University of Michigan - Flint, Michigan, USA;
College of Arts and Sciences, University of Michigan - Flint,
Michigan, USA
- 11:40 - 12:00pm: Experimental Predictive Analytics Tools to Help Detect
Fake News: A Survey
Sana Sajjad, Anasse Bari
Department of Computer Science, Courant Institute of
Mathematical Sciences, New York University, New York, USA
- 12:00 - 12:20pm: Challenging Traditional Polls: 2023 Ecuadorian Regional
Elections, Could Shameful Votes be Uncovered Through
Sentiment Analysis?
Ruben Pacheco-Villamar, Carlos Chiriboga-Calderon,
Joaquin Lopez-Chavez, Jose Lopez-Fierro, Sariah Lopez-Fierro
Universidad Espiritu Santo, Ecuador;
Soluciones Wandarina S. A., Ecuador;
Universidad Catolica de Cuenca, Ecuador

12:20 - 01:20pm: LUNCH (On Your Own)

**SESSION 22B-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 17A-FRI & ON-LINE SESSIONS)
SMART CITIES AND SMART MOBILITY (CSCI-RTSC)
December 15, 2023 (Friday); 01:20pm - 02:20pm
(LOCATION: Ballrooms Galleria B-C)**

- 01:20 - 01:40pm: Utilizing a Spatial Grid for Automated Parking Space
Vacancy Detection
Tristram Dacayan, Eric Ponte, Kuan Huang, Daehan Kwak
Department of Computer Science and Technology,
Kean University, Union, New Jersey, USA
- 01:40 - 02:00pm: Blockchain-based Zero Trust on the Edge
Cem Bicer, Ilir Murturi, Praveen Kumar Donta, and
Schahram Dustdar
Distributed Systems Group, TU Wien, Vienna, Austria
- 02:00 - 02:20pm: Efficiency and Fairness in P2P Transactions with Variable
Pricing for Electricity
Eiichi Kusatake, Norihiko Shinomiya
Graduate School of Science and Engineering,
Soka University, Tokyo, Japan

**SESSION 23B-FRI: (CONCURRENT SESSION WITH ON-SITE SESSION 17A-FRI & ON-LINE SESSIONS)
EDUCATION (CSCI-RTED)
(Includes Use of ChatGPT + Online, STEM Education, ...)
December 15, 2023 (Friday); 02:20pm - 03:40pm
(LOCATION: Ballrooms Galleria B-C)**

02:20 - 02:40pm: Tokenization of Digital Assets for Ethical and Unbiased Model Training in an AI-based Proctoring Application
Dragan Boscovic, Mahdi Eghbali, Kashish Khullar, Pooja Bharathi Oguri, Pratyush Pandey, Mike Olsen, and Milan Dordevic
Fulton School of Engineering, School of Computing and Augmented Intelligence, Arizona State University, Tempe, Arizona, USA; Economics Department, W. P. Carey Business School, Arizona State University, Tempe, Arizona, USA; Proctorio Inc., Scottsdale, Arizona, USA

02:40 - 03:00pm: Leveraging LLMs and MLPs in Designing a Computer Science Placement Test System
Yi Li, Riteng Zhang, Danni Qu, Maira Marques Samary
Department of Computer Science, Boston College, Chestnut Hill, Massachusetts, USA

03:00 - 03:20pm: ChatGPT Implications on Higher Education: Educational Apocalypse or Educational Reboot? A Developing Countries Perspective
Olalekan Samuel Ogunleye
School of Computing and Mathematical Science, University of Mpumalanga Mbombela, South Africa

03:20 - 03:40pm: M-Learning Excellence: Personalized Mobile Learning for University Students via an Android App
Shutchapol Chopvitayakun, Danucha Khamsakdee, and Nuntaporn Aukkanit
Department of Information Technology, Faculty of Science and Technology, Saun Sunandha Rajabhat University, Bangkok, Thailand; Department of Food Science and Technology, Faculty of Science and Technology, Saun Sunandha Rajabhat University, Bangkok, Thailand

03:40 - 04:00pm: FREE SLOT

04:00 - 04:20pm: FREE SLOT

04:20 - 04:40pm: FREE SLOT

04:40 - 05:00pm: FREE SLOT

05:00 - 05:20pm: FREE SLOT

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

**06:00 - 06:20pm: CLOSING REMARKS
(GO TO ---> LOCATION: Ballrooms Galleria D-E)**

ON-LINE PRESENTATIONS (DECEMBER 15 - Friday)

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PLEASE NOTE THAT ALL TIMES MENTIONED IN THIS DOCUMENT ARE IN TERMS OF LAS VEGAS TIME-ZONE (USA Pacific Time-zone).

The conference has granted the request from the administrations of 9 institutions to live stream the online sessions for their classrooms (one connection per classroom / institution).

IMPORTANT: If possible, speakers are expected to connect at the beginning of the session in which their papers are scheduled for presentation. This will help the admin of the session to manage the logistical process. In case of questions about the online/ZOOM presentations during the conference days (Dec. 13-15, 2023), please contact csci.zoom@gmail.com

**SESSION 8-ONLINE: COMPUTATIONAL SCIENCE (CSCI-RTCS) +
COMPUTATIONAL INTELLIGENCE (CSCI-RTCI) + APPLICATIONS
December 15, 2023 (Friday); 08:00am - 10:20am
(ONLINE - ZOOM)**

- 08:00 - 08:20am: Practical Quantum Search by Variational Quantum Eigensolver on Noisy Intermediate-scale Quantum Hardware
Chen-Yu Liu
Hon Hai Research Institute, Taipei, Taiwan; Graduate Institute of Applied Physics, National Taiwan University, Taipei, Taiwan
- 08:20 - 08:40am: Text Stream Classification: Literature Review and Current Trends
Najet Medssia, Minyar Sassi Hidri, Ali Frihida
RISC Laboratory, National Engineering School of Tunis, University of Tunis El Manar, Tunis, Tunisia;
Computer Department, Deanship of Preparatory Year and Supporting Studies, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- 08:40 - 09:00am: The Traveling Salesman Problem on the Hyperbolic Plane
D. Ficzer, G. Hollosi, A. Franko, P. Varga, J. Biro
Department of Telecommunications and Media Informatics, Faculty of Electrical Engineering and Informatics, Budapest University of Technology and Economics, Budapest, Hungary
- 09:00 - 09:20am: Improving Ensemble Regression Models Using Hybrid General Optimization Algorithm and Weighted Schema Based on Proportionate Selection
Faisal Alkhateeb
University Of Bahrain, Bahrain;
Yarmouk University, Irbid, Jordan

- 09:20 - 09:40am: Biometric Authentication Comparison: Toward Secure Human Recognition
Fatma Mallouli, Nesrine Khelifi, Aya Hellal, Imen Ferjani, Nada Chaabane, Imene Gmach, Houda chamakhi
Deanship of Preparatory Year and Supporting Studies, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Business Administration Department, The Applied College, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Computer Science Department, The Applied College, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Department of Quantitative Methods, College of Business Administration, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- 09:40 - 10:00am: The Influence of Social Media on Body Image
Fadi Yamout, Alia Ghaddar
Computer Science & Information Technology, Lebanese International University, Beirut, Lebanon
- 10:00 - 10:20am: Utilizing Reusable Test-Ready Models of Smart Home Systems for Testing KNX Devices
Nouf Aljaffan, Lamees Alhazzaa, Afnan Albahli
Department of Computer Science and Engineering, King Saud University, Riyadh, Saudi Arabia; College of Computer and Information Sciences, Al-Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia; Department of Information Technology, Princess Nourah Bint Abdulrahman University, Riyadh, Saudi Arabia
- SESSION 9-ONLINE: COMPUTATIONAL INTELLIGENCE (CSCI-RTCI) & APPLICATIONS + SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-RTPC) + CLOUD COMPUTING**
December 15, 2023 (Friday); 10:20am - 01:20pm
(ONLINE - ZOOM)
- 10:20 - 10:40am: Predicting Elliott Flat and Zigzag Internal Shapes by Statistical Learning on Fibonacci Ratios
Rafael Ribeiro Dos Santos, Vanderlei Bonato, and Geraldo Nunes Silva
Institute of Mathematics and Computer Sciences (ICMC), University of Sao Paulo (USP), Sao Carlos, SP, Brazil; Institute of Biosciences, Letters and Exact Sciences (IBILCE), Sao Paulo State University (UNESP), Sao Jose do Rio Preto, SP, Brazil
- 10:40 - 11:00am: MLMVN as a Frequency Domain Convolutional Neural Network
Igor Aizenberg, Alexander Vasko
Computer Science Department, Manhattan College, Riverdale, New York, USA; Department of Systems Analysis & Optimization Theory, Uzhhorod National University, Uzhhorod, Ukraine
- 11:00 - 11:20am: A Smart Particle Filter Technology for Battery State Estimation and Life Prediction
Mohamed Ahwiadi, Wilson Wang
Department of Mechanical and Mechatronics Engineering, Lakehead University, Thunder Bay, ON, Canada
- 11:20 - 11:40am: Semantic Similar Image Search: A Command-Line Tool Based on CLIP
Yurij Mikhalevich
Lightning AI, Dubai, United Arab Emirates, UAE

- 11:40 - 12:00pm: Ultrasound Imaging Based on Mean and Standard Deviation
Cuijuan Lou
Key Laboratory of Grain Information Processing and Control
(Henan University of Technology), Ministry of Education,
Zhengzhou, China; Henan Key Laboratory of Grain
Photoelectric Detection and Control, Henan University of
Technology, Zhengzhou, China; Department of Artificial
Intelligence, Henan University of Technology, Zhengzhou, China
- 12:00 - 12:20pm: P P P P P FREE SLOT
- 12:20 - 12:40pm: Enhanced Database Training to Enhance Small Object Detection
Chia-Ying Chang
National Pingtung University of Science & Technology, Taiwan
- 12:40 - 01:00pm: P P P P P FREE SLOT
- 01:00 - 01:20pm: Wavelet Features Greedy Clustering for Remotely Sensing
Identification
Zhaohui Wang
Department of Computer Systems Technology, North Carolina
A&T State University, Greensboro, North Carolina, USA

SESSION 10-ONLINE: SOFTWARE ENGINEERING (CSCI-RTSE)<https://www.american-cse.org/csci2023/RTSE>

December 15, 2023 (Friday); 01:20pm - 02:20pm

(ONLINE - ZOOM)

- 01:20 - 01:40pm: Evaluation of Software Security based on Antipatterns Approach
Roberto Andrade, Jenny Torres, Denis Araque, Johanna Molina
Facultad de Ingenieria en Sistemas, Quito, Ecuador;
Universidad de las Fuerzas Armadas Espe, Ecuador
- 01:40 - 02:00pm: Development of a Data Sonification Tool to Transcend Standard
Visualization Analyses
Jacob Elbirt, Ali Al-Faris
Computer Science Department, Worcester State University,
Worcester, Massachusetts, USA
- 02:00 - 02:20pm: A Prompt-Based Approach for Software Development
Mohammed Hamdi, Lewy D. Kim
Department of Computer Science and Engineering,
Oakland University, Rochester, Michigan, USA;
Stoney Creek High School, Rochester Hills, Michigan, USA

- SESSION 11-ONLINE: BIG DATA AND DATA SCIENCE (CSCI-RTBD) +
SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-RTNA)**
<https://www.american-cse.org/csci2023/RTBD>
<https://www.american-cse.org/csci2023/RTNA>
December 15, 2023 (Friday); 02:20pm - 04:00pm
(ONLINE - ZOOM)
- 02:20 - 02:40pm: Crime Data Visualization Using Virtual Reality and
Augmented Reality
Sri Chandra Dronavalli, Rishitha Reddy Pesaladinne,
Maruthi Prasanna Chellatore, Sharad Sharma
Department of Information Science, University of North Texas,
Denton, Texas, USA
- 02:40 - 03:00pm: Data Imputation Under Similarity Rule Constraints Using Fuzzy
Multi-Objective Programming
Mohammadreza Safi, Saeed Mozaffari, Majid Ahmadi, and
Shahpour Alirezaee
Department of Electronic and Computer Engineering,
The University of Windsor, Windsor, Canada
- 03:00 - 03:20pm: An Analytics Framework for Analyzing Social Network News
Fu-Shing Sun, Miao Guo
Computer Science Department, Ball State University, Muncie,
Indiana, USA; Department of Digital Media and Design,
University of Connecticut, Storrs, Connecticut, USA
- 03:20 - 03:40pm: Evaluating Uber Customers' Perception on Twitter: A Case
Study in Ecuador
Maria Becerra-Salas, Henry N. Roa
Facultad de Ingenieria, Pontificia Universidad Catolica
del Ecuador, Quito, Ecuador
- 03:40 - 04:00pm: Cybersecurity Risks in the Deployment and Use of Digital
Business Cards: Implications for Organizations and End-Users
Dale Rutherford, Ningning Wu
Department of Information Science, University of Arkansas
at Little Rock, Arkansas, USA

SESSION 12-ONLINE: SMART CITIES AND SMART MOBILITY (CSCI-RTSC)<https://www.american-cse.org/csci2023/RTSC>December 15, 2023 (Friday); 04:00pm - 05:00pm
(ONLINE - ZOOM)

- 04:00 - 04:20pm: Digital Technological Innovation in the City of Santo Domingo - Ecuador
Nelson Salgado-Reyes, Gustavo Chafra, Jaime Meza
Pontifical Catholic University of Ecuador, Ecuador
- 04:20 - 04:40pm: Situational Awareness and Feature Extraction for Indoor Building Navigation using Mixed Reality
Rishitha Reddy Pesaladinne, Maruthi Prasanna Chellatore, Sri Chandra Dronavalli, Sharad Sharma
Department of Information Science, University of North Texas, Denton, Texas, USA; Department of Computer Science, University of North Texas, Denton, Texas, USA
- 04:40 - 05:00pm: Algorithm for Concept Drift Detection in Autonomic Smart Buildings
Mikhail Genkin, J. J. McArthur
Department of Computer Science and Information Systems, Trent University, Peterborough, Canada; Department of Architectural Science, Toronto Metropolitan University, Toronto, Canada

LIST OF PRE-RECODED PRESENTATIONS / POST-CONFERENCE

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Authors and speakers were given the following presentation options:

OPTION 1: Presenting the paper on site at the congress.

OPTION 2: Presenting the paper remotely: using Zoom (interactive).

OPTION 3: Presenting the paper remotely (non-interactive).

The link to these pre-recorded presentations will later be included in the "Book of Abstracts" and will be made available on the CSCI 2023 web site at (<https://www.american-cse.org/csci2023/>).

The list that appears below includes all those papers and posters whose authors will likely be providing pre-recorded presentations.

RESEARCH TRACK ON COMPUTATIONAL SCIENCE (CSCI-RTCS)

<https://www.american-cse.org/csci2023/RTCS>

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- 0. Improved Implementation and Analysis of an Algorithm to Count Graphical Partitions
Kai Wang
Department of Computer Science, Georgia Southern University, Statesboro, Georgia, USA

- 0. Understanding the Computational Complexity of Diverse Classes of Turing and Super-Turing Computational Models
Ghada Abdelmoumin, Chunmei Liu, Danda Rawat
Department of Information and Engineering Technology, Northern Virginia Community College, Annandale, Virginia, USA; Department of Electrical Engineering and Computer Science, Howard University, Washington, DC, USA

- 0. An Efficient Dynamical Programming Algorithm for Bin Packing Problem
Catherine Huyghe, Stephane Negre, Melanie Fontaine
University of Picardie Jules Verne (UPJV), Amiens, France

- 0. Humanoid Robotic Arm with Leap Motion Controller using Raspberry PI
Aditi Golder, Debashis Gupta, Saumendu Roy, Md. Abdullah Al Ahasan, and Mohd Ariful Haque
Institute of Information Technology, Jahangirnagar University, Dhaka, Bangladesh; Department of Computer Science, Wake Forest University, North Carolina, USA; Department of Computer Science, University of Saskatchewan, Saskatoon, Canada; Department of Computer Science, University of Regina, Regina, Canada; Cyber-Physical Systems, Clark Atlanta University, Atlanta, Georgia, USA

- 0. Towards Understanding How Data Augmentation Works with Imbalanced Data
Damien A. Dablain, Nitesh V. Chawla
Department of Computer Science and Engineering & Lucy Family Institute for Data and Society, University of Notre Dame, Notre Dame, Indiana, USA

- 0. Endurance-Aware Deep Neural Network Real-Time Scheduling on ReRAM Accelerators
Shi Sha, Xiaokun Yang, Trent Szczecinski, Daniel Whitman, Wujie Wen, and Gang Quan
Wilkes University, Pennsylvania, USA; University of Houston-Clear Lake, Texas, USA; North Carolina State University, North Carolina, USA; Florida International University, Florida, USA

- 0. Simulation and Visualization of Intelligent MIMO-ANFIS-Based Control System in Virtual Reality using MATLAB and V-Rep
Mokhles M. Abdulghani, Wilbur L. Walters, Khalid H. Abed
Jackson State University, Jackson, Mississippi, USA

- 0. Augmented Reality-Based Visualization and Simulation of Autonomous Unmanned Aerial Vehicle Control System
Mokhles M. Abdulghani, Wilbur L. Walters, Khalid H. Abed
Jackson State University, Jackson, Mississippi, USA

- 0. LSU Factorization
Gennadi Malaschonok
Faculty of Computer Science, National University of Kyiv-Mohyla Academy, Kyiv, Ukraine

- 0. Time and Space Tradeoffs in Point Location
Mounika Gonuguntla, Yijie Han
School of Science and Engineering, University of Missouri at Kansas City, Kansas City, Missouri, USA

0. Generating Pell Numbers

Weizheng Gao, Julian Allagan, Shanzhen Gao, Jianning Su, Olumide Malomo,
Ephrem Eyob, Adeyemi Adekoya
Department of Mathematics, Computer Science and Engineering Technology,
Elizabeth City State University, North Carolina, USA;
Department of Computer Information Systems, Reginald F Lewis College of
Business, Virginia State University, Virginia, USA;
Perimeter College, Georgia State University, Georgia, USA

RESEARCH TRACK ON COMPUTATIONAL BIOLOGY (CSCI-RTCB)

<https://www.american-cse.org/csci2023/RTCB>

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- 0. MFT - Most Frequent Tree, a Whole Genome Approach to Inferring a Species Tree from Gene Trees with Confidence Intervals
Yunfeng Shan
College of Mathematics and Computer Sciences, Guangxi Science and Technology Normal University, Laibin, China;
Department of Genomics, iREG, Toronto, Ontario, Canada

RESEARCH TRACK ON HEALTH INFORMATICS AND MEDICAL SYSTEMS (CSCI-RTHI)

<https://www.american-cse.org/csci2023/RTHI>

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- 0. Interpretable Data Driven Classifiers: A Proposal for Autism Diagnosis of Children using Ensemble Learning
Abdulhamid Alsbakhi, Joan Lu
School of Engineering, Applied Science & Technology,
Canadian University Dubai, UAE; School of Computing and Engineering,
University of Huddersfield, UK
- 0. Health Informatics for Contact Tracing in a Pandemic Response:
A Perspective
Lateefat Amao, Misagh Faezipour
College of Basic and Applied Sciences, Healthcare Informatics,
Middle Tennessee State University, Murfreesboro, Tennessee, USA;
Department of Engineering Technology, Middle Tennessee State University,
Murfreesboro, Tennessee, USA
- 0. One vs All Approach for Nested Named Entity Recognition in the French
Medical Text
Hocine Kadi, Mathieu Boyer
Research and Innovation Department, Capgemini Engineering,
Illkirch-Graffenstaden, France
- 0. Detection Transformer for Teeth Detection, Segmentation, and Numbering
in Oral Rare Diseases: Focus on Data Augmentation and inpainting Techniques
Hocine Kadi, Theo Sourget, Marzena Kawczynski, Sara Bendjama,
Bruno Grollemund, Agnes Bloch-Zupan
Research and Innovation Department, Capgemini Engineering,
Illkirch-Graffenstaden, France; Department of Computer Science Universite
Rouen Normandie, Rouen France; Reference Center for Rare Oral and Dental
Diseases, Hopitaux Universitaires de Strasbourg (HUS), Strasbourg, France
- 0. ERGOGENIUS: An Integrative Framework for Preventing Work-related Upper
Limbs Musculoskeletal Disorders through Image Analysis Techniques
Cedrick Bamba, Elie Fiogbe, Reijane Salazar Costa
Computing Department, Federal University of Sao Carlos, Sao Carlos,
SP, Brazil; Physical Therapy Department, Federal University of Sao Carlos,
Sao Carlos, SP, Brazil; Educational Department, Federal University of
Sao Carlos, Sao Carlos, SP, Brazil
- 0. Approach of Team Avatar-Hubo to the ANA Avatar XPRIZE Finals
Baekseok Kim, Nathan Kassai, Zahir Castrejón, Nicolas Kosanovic,
Jean Chagas Vaz, Paul Oh
Department of Mechanical Engineering, University of Nevada,
Las Vegas, Nevada, USA; Department of Electrical and Computer Engineering,
University of Louisville, Kentucky, USA
- 0. Vision Health Monitoring System for Pilots
Abdulrahman M. Abdulghani, Mokhles M. Abdulghani, Wilbur L. Walters,
and Khalid H. Abed
Jackson State University, Jackson, Mississippi, USA
- 0. Advancing Child and Maternal Health: A System Dynamics Exploration of
Policy Interventions to Tackle Socioeconomic Disparities
Ashiat Ashake Adeogun, Misagh Faezipour
College of Basic and Applied Sciences, Healthcare Informatics,
Middle Tennessee State University, Murfreesboro, Tennessee, USA;
Department of Engineering Technology, Middle Tennessee State University,
Murfreesboro, Tennessee, USA

- 0. Ensembling and Modeling Approaches for Enhancing Alzheimer's Disease Scoring and Severity Assessment
Saurav K. Aryal, Ujjawal Shah, Howard Prioleau, Legand Burge
Computer Science Department, Howard University, Washington D.C., USA

- 0. Leveraging Language Models for Enhanced Medical Diagnosis: A Case Study with SocraHealth
Jocelyn J. Chang, Edward Y. Chang
Tufts Medical School, Massachusetts, USA;
Computer Science, Stanford University, California, USA

- 0. A Systematic Review on Machine Learning (ML) and Artificial Intelligence (AI) in UNDERSTANDING and ASSESSING women's health
Jones Yeboah, Sophia Bampoh, Foster Addo Yeboah, Isaac Kofi Nti
University of Cincinnati, Cincinnati, Ohio, USA;
Cleveland Clinic Florida, USA

RESEARCH TRACK ON PARALLEL & DISTRIBUTED COMPUTING (CSCI-RTPD)

<https://www.american-cse.org/csci2023/RTPD>

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- O. Implementation of a Hardware Accelerator with FPU-Based Euler and Modified Euler Solver for an Ordinary Differential Equation
Soham Bhattacharya, Dwaipayan Chakraborty
Department of Electrical and Computer Engineering,
Rowan University, New Jersey, USA

- O. Accelerated Gauss-Huard Algorithm on Hybrid GPU-CPU: Look-Ahead with the Delayed Algorithm Approach
Hisham G. Elzayyadi, Wafaa S. Sayed, Mona A. El Naggat,
Maha A. Hassanein (& may be Eslam Ali)
Engineering Mathematics and Physics Department, Faculty of Engineering,
Cairo University, Egypt

- O. Continuous Integration and Continuous Delivery with Microcontrollers Applications
Fernando G. Tinetti, Alejo A. Santi, Mariano Mendez
Facultad de Informatica, UNLP, CIC Provincia de Buenos Aires, La Plata,
Argentina; Facultad de Informatica, Universidad Nacional de La Plata,
La Plata, Argentina; Facultad de Ingenieria, Universidad de Buenos Aires,
Ciudad Autonoma de Bs. As., Argentina

- O. Access Pattern Characterization of Last-level Cache for Effective Replacement
Shafayat Mowla Anik, Byeong Kil Lee
Department of Electrical and Computer Engineering,
The University of Colorado, Colorado Springs (UCCS), Colorado, USA

RESEARCH TRACK ON CLOUD COMPUTING AND DATA CENTERS (CSCI-RTCC)

<https://www.american-cse.org/csci2023/RTCC>

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- O. SDN-Based Critical Infrastructure Resilience: A Smart Grid Perspective
Steve C. Chiu
Department of Electrical and Computer Engineering,
Idaho State University, Pocatello, Idaho, USA

RESEARCH TRACK ON COMPUTATIONAL INTELLIGENCE (CSCI-RTCI)

<https://www.american-cse.org/csci2023/RTCI>

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- 0. Study on Filter Shape for Bio-signals Training Data in CNN based HAR
Gerelbat Batgerel, Chunki Kwon
Soonchunhyang University, Korea

- 0. Artificial Intelligence - Enabled Deep Learning Model for Diabetes Prediction Using Deep Belief Network with Bayesian Optimization
Jide Ebenezer Taiwo Akinsola, Sunday Adeola Ajagbe, Emmanuel Ajayi Olajubu, Azeezat Oluwayemisi Lawal, Ganiyu Adesola Aderounmu, and Matthew Olusegun Adigun
Department of Computer Sciences, First Technical University, Ibadan, Nigeria; Department of Computer and Industrial Engineering, First Technical University, Ibadan, Nigeria; Department of Computer Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria; Department of Computer Science, University of Zululand, Kwadlangezwa, South Africa

- 0. Towards An Intuitive Virtual Reality Interface using Cable-Driven Parallel Robots for Space Exploration
Zahir Castrejon, Nathan Kassai, Paul Y. Oh
Drones and Autonomous Systems Laboratory (DASL), Department of Mechanical Engineering, University of Nevada, Las Vegas, Nevada

- 0. Multi-Agent Reasoning with Large Language Models for Effective Corporate Planning
Wen-Kwang Tsao
Trend Micro AILAB, Inc., USA

- 0. Towards Birds Conservation in Dry Forest Ecosystems through Audio Recognition via Deep Learning
Tyrone Rodriguez, Adriana Guilindro, Paolo Piedrahita, Miguel Realpe
ESPOL Polytechnic University, Escuela Superior Politecnica del Litoral, Guayaquil, Ecuador

RESEARCH TRACK ON ARTIFICIAL INTELLIGENCE (CSCI-RTAI)

<https://www.american-cse.org/csci2023/RTAI>

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- 0. A Method for Recovering on Unsupervised Domain Adaptation Models Compression
Shou-Ping Wang, Erh-Chung Chen, Meng-Hsuan Yang, Che-Rung Lee
Department of Computer Science, National Tsing Hua University,
HsinChu, Taiwan
- 0. Improving Public Health Policies with Indoor Air Quality Predictive Models
Ariel Isaac Posada Barrera, Laura Margarita Rodriguez Peralta,
Eldman de Oliveira Nunes, Paulo Nazareno Maia Sampaio, and
Fabian Leonardo Cuesta Astudillo
Universidad Popular Autonoma del Estado de Puebla (UPAEP), Departamento
de ingenierias, Facultad de Tecnologias de Informacion y Ciencia de
Datos (FTIyCD), Puebla, Mexico; Universidade de Salvador (UNIFACS),
Bahia, Brazil
- 0. An Evaluation of Tiered Machine Learning Framework to Predict Science Achievement among Singapore Students
Khanh Linh Nguyen, Ta'Rhonda Mayberry, Yang Liu, Myint Swe Khine,
and Vivek K. Pallipuram
School of Engineering and Computer Science, University of the Pacific,
Stockton, California, USA; Shanghai Maritime University, Shanghai, China;
Curtin University, Bentley, Australia
- 0. Neural Network Structure for Tracking the Climate Temperature Change
Irina Topalova, Pavlinka Radoyska
Department Information Technology, University of Telecommunication and
Post, Sofia, Bulgaria
- 0. Leveraging Chatbots for Mental Health Enhancement
Anthony Diaz, Daehan Kwak
Department of Computer Science and Technology, Kean University,
Union, New Jersey, USA
- 0. Examining GPT-4: Capabilities, Implications and Future Directions
Edward Y. Chang
Computer Science Department, Stanford University, California, USA
- 0. Voice Signature Recognition for UAV Pilots Identity Verification
Mokhles M. Abdulghani, Wilbur L. Walters, Khalid H. Abed
Jackson State University, Jackson, Mississippi, USA
- 0. Explainable LightGBM Approach for Predicting Myocardial Infarction Mortality
Ana Leticia Garcez Vicente, Roseval Donisete Malaquias Junior, and
Roseli A. F. Romero
Computer Science Department, University of Sao Paulo, Sao Carlos, Brazil
- 0. A Systematic Literature Review of XAI-based Approaches on Brain Disease Detection using Brain MRI Images
Savin Madapatha, Pumudu Fernando
University of Westminster, London, UK;
Informatics Institute of Technology, Colombo, Sri Lanka
- 0. Spatio-Temporal Attention Graph Neural Network for Remaining Useful Life Prediction
Zhixin Huang, Yujiang He, Bernhard Sick
Intelligent Embedded Systems, University of Kassel, Kassel, Germany

- 0. H-TD3: Twin-Delayed DDPG with Huber Loss for Training Intelligent Agents in Complex Tasks
Stephen Dankwa, Lu Yang, Eric Affum
Software Engineering, Spagad Technologies Limited, Accra, Ghana;
Automation Engineering, UESTC, Chengdu, China;
Computer Engineering, University of Mines and Technology, Tarkwa, Ghana
- 0. Methodologies for Email Spam Classification using Large Language Models
Alejandro De La Noval, Diana Gutierrez, Jayesh Soni, Himanshu Upadhyay, and Alexander Perez-Pons
College of Engineering and Computing, Florida International University, Miami, Florida, USA
- 0. Evaluating Ensembled Transformers for Multilingual Code-Switched Sentiment Analysis
Saurav K. Aryal, Howard Prioleau, Gloria Washington, Legand Burge
Computer Science Department, Howard University, Washington DC, USA
- 0. Benchmarking Current State-of-the-Art Transformer Models on Token Level Language Identification and Language Pair Identification
Howard Prioleau, Saurav K. Aryal
Computer Science Department, Howard University, Washington DC, USA
- 0. Advancing Classification with Limited Training Data: Harnessing Generative Adversarial Networks and Latent Space Clustering
Gofur Halmuratov, Arnost Vesely
Department of Information Engineering, Czech University of Life Sciences, Czech Republic
- 0. Stock Price Forecasting: A Comparative Analysis of Time Series and Machine Learning Models
Houda Chammakhi, Imen Ferjani, Nouredine Mohamed Bouzir
Department of Quantitative Methods, College of Business Administration & Deanship of Preparatory Year and Supporting Studies, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia;
National School of Engineering of Tunis, Tunisia
- 0. Using Deep Learning for Spatial and Temporal Analysis of Wildfire Start and Progression
Pratyush Muthukumar, Janmesh Kalra, Shaurya Pathak, Dawn Comer, Navid Amini, Jeanne Holm, Mohammad Pourhomayoun
Department of Computer Science, California State University Los Angeles, California, USA; City of Los Angeles, Los Angeles, California, USA

RESEARCH TRACK ON CYBER WARFARE, CYBER DEFENSE, & CYBER SECURITY (CSCI-RTCW)
<https://www.american-cse.org/csci2023/RTCW>

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- 0. From Words to Binary: The Unexpected Power of GPT-2 in Malware Detection
Marwan Omar
Illinois Institute of Technology, Chicago, Illinois, USA;
Capital Technology University, Maryland, USA

- 0. RobustEncoder: An Improved K-Means Clustering Technique to Defend NLP Models Against Backdoor Attacks
Marwan Omar
Illinois Institute of Technology, Chicago, Illinois, USA;
Capital Technology University, Maryland, USA

- 0. Covert, Secure and Private Communications in Software Defined Networking
Artrim Kjamilji
Department of Cybersecurity, Istanbul Ticaret University, Istanbul, Turkey

- 0. An Adaptive Particle Swarm Optimization to Solve Modern Security System
Mohammed H. Ahmed, Asaad N. Hashim, Khalid A. Hussein
Department of Computer Science, College of Education, Mustansiriyah University, Baghdad, Iraq; Department of Computer Science, College of Computer Science and Mathematics, University of Kufa, Najaf, Iraq

- 0. Understanding Cyber Threats: Patterns, ISP Characteristics, Industry Targets, and Geographic Correlations
Surya Rohith Akella, Divya Lalitha Vydula, Murat Ozer, Yasin Kose, Fatih Bastug, Nelly Elsayed, Zag Elsayed
University of Cincinnati, Cincinnati, Ohio, USA;
Friedrich-Alexander-Universitat, Erlangen-Numberg, Erlangen, Germany;
University of Scranton, Scranton, PA, USA

RESEARCH TRACK ON MOBILE COMPUTING, WIRELESS NETWORKS, & SECURITY (CSCI-RTMC)
<https://www.american-cse.org/csci2023/RTMC>

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- 0. Deep Learning-Based Channel Estimation for RIS-Assisted UAV-Enabled Wireless Communication System
Getaneh Berie Tarekegn
Department of Electrical and Computer Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan; Institute of Electrical and Control Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

- 0. Wireguard: An Efficient Solution for Securing IoT Device Connectivity
Haseebullah Jumakhan, Amir Mirzaeinia
University of North Texas, Denton, Texas, USA

RESEARCH TRACK ON SIGNAL & IMAGE PROCESSING, COMPUTER VISION & PATTERN RECOGNITION (CSCI-RTPC)

<https://www.american-cse.org/csci2023/RTPC>

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- 0. KALI: A Hand Gesture Based Approach to Control PowerPoint Presentation
Tathagata Bhattacharya, Akil Kumar Vujjini, Vinay Alsa
Department of Computer Science and Information Management Systems,
Auburn University at Montgomery, Alabama, USA
- 0. Comparative Study of Data Augmentation Approaches for Improving
Medical Image Classification
Khadija Rais, Mohamed Amroune, Mohamed Yacine Haouem, Issam Bendib
LAMIS Laboratory, University of Larbi Tebessi, Tebessa, Algeria
- 0. Robust Image Watermarking based on Cross-Attention and Invariant Domain
Learning
Agnib Dasgupta, Xin Zhong
Department of Computer Science, University of Nebraska Omaha,
Omaha, Nebraska, USA
- 0. Generative Adversarial Networks in Image Generation and Recognition
Anoushka Popuri, John Miller
Francis Howell School District, O'Fallon, Missouri, USA
- 0. Combined Medical Image Super-Resolution and Modality Translation using
GAN Transformer-based Model
Melika Abdollahi, Heidar Davoudi, Mehran Ebrahimi
Faculty of Science, Ontario Tech University, Oshawa, Ontario, Canada
- 0. Real-Time Object Detection to Identify Adults and Children Using
YOLO Algorithm
Abdulghani M. Abdulghani, Mokhles M. Abdulghani, Wilbur L. Walters, and
Khalid H. Abed
Jackson State University, Jackson, Mississippi, USA
- 0. LF-YOLOv7: Improved YOLOv7 Based on Lightweight Modules and Novel
Feature Fusion for Object Detection on Drone-Captured Scenarios
Wangyu Jiang, Le Wang, Fayaz Ali Dharejo, Guojun Mao
Faculty of Computer Science and Mathematics, Fujian University of
Technology, Fuzhou, Fujian Province, China; Department of Electrical
Engineering and Computer Science, Khalifa Univeristy, Abu Dhabi, UAE
- 0. Linear Transformations in Masked Face Recognition: Bridging the
Representation Gap
Eslam Ali, Ahmed Elsheikh, Maha A. Hassanein
Mathematics and Physics Department, Cairo University, Cairo, Egypt
- 0. Real-Time Suspicious Activity Detection on ATMs Using Multimodel YOLO
Object Detection
Akshith Simha Katragada, Kavya Vuribindi, Varick L. Erickson
Department of Computer Science, California State University East Bay,
California, USA

RESEARCH TRACK ON BIG DATA AND DATA SCIENCE (CSCI-RTBD)

<https://www.american-cse.org/csci2023/RTBD>

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- 0. A Markov-Based Economic Recession Modeling Through Financial Outcomes: Before and During the COVID-19 Pandemic
Ray R. Hashemi, Omid M. Ardakani, Daniel Bekker, James D. Griffith
Department of Computer Science, Georgia Southern University, Savannah, Georgia, USA; Department of Economics, Georgia Southern University, Savannah, Georgia, USA
- 0. Predicting Marital Stability: An Approach for More Characteristics
Frank (Ding-Chun) Huang
NPA Rockville, Maryland, USA
- 0. Enhancing Data Quality with Label Noise Detection
Wanwan Zheng
Graduate School of Humanities, Nagoya University, Nagoya, Japan
- 0. Intent Classification: French Recruitment Chatbot Use Case
Nadira Boudjani, Viviane Colas, Azade Fotouhi
SogetiLabs, Paris, France
- 0. Big Data in Healthcare: Acquisition, Management, and Visualization Using System Dynamics
Ashiat Ashake Adeogun, Misagh Faezipour
College of Basic and Applied Sciences, Healthcare Informatics, Middle Tennessee State University, Murfreesboro, Tennessee, USA; Department of Engineering Technology, Middle Tennessee State University, Murfreesboro, Tennessee, USA
- 0. Multi Weight Graph Algorithms to Find Shortest Paths with Distance and Crime Rate
Abhay Arora, Sai Meghana Gushidi, Akram Mirzaeinia, Amir Mirzaeinia
University of North Texas, Denton, Texas, USA
- 0. Unifying Perspectives: A Comprehensive Big Data Monetization Approach Leveraging Return on Investment and Game Theories
Domingos S. M. P. Monteiro, Felipe Silva Ferraz, Silvio R. L. Meira, and Domingos S. P. Salazar
Center of Advanced Studies and Systems of Recife, Recife, Brazil; Distance Education and Technology Unit, Rural Federal University of Pernambuco, Recife, Brazil
- 0. Efficient Crop Classification Using Optical and Radar Big Data: A Time and Cost Reduction Approach
Hashim Abu-Gellban, Essa Imhmed
Department of Computer Science, Grand Canyon University, Phoenix, Arizona, USA; Department of Mathematical Sciences, Eastern New Mexico University, Portales, New Mexico, USA
- 0. Time Expression Normalization with Meta Time Information
Mengyu An, Chenyu Jin, Xiaoshi Zhong, Erik Cambria
School of Computer Science and Technology, Beijing Institute of Technology, China; School of Computer Science and Engineering, Nanyang Technological University, Singapore
- 0. Automatic Speech Recognition in Diverse English Accents
Hashir Mohyuddin, Daehan Kwak
Department of Computer Science and Technology, Kean University, Union, New Jersey, USA

0. Not as Simple as It Looked: Are We Concluding for Biased Arrest Practices?
Murat Ozer, Halil Akbas, Ismail Onat, Fatih Bastug, Arif Akgul,
Nelly Elsayed, Zag Elsayed
University of Cincinnati, Cincinnati, Ohio, USA; Troy University, Troy,
Alabama, USA; University of Scranton, Scranton, Pennsylvania;
Indiana State University, Indiana, USA

RESEARCH TRACK ON SOCIAL NETWORK ANALYSIS, SOCIAL MEDIA, & MINING (CSCI-RTNA)
<https://www.american-cse.org/csci2023/RTNA>

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- 0. Novel Design Templates for OTT Platform Thumbnails to Engage the Viewers
Mamatha G S, Supritha K R
RV College of Engineering, Bengaluru, India

- 0. AI Based Business Risk Prediction from Chat-Bot Data Proceeding Approach
Muhammad Sohail
Department of Accounting & Information Systems, College of Business & Economics, Qatar University, Doha, Qatar

- 0. Emotion Analysis on COVID-related Twitter Tweets
Maliha Haider, Daehan Kwak
Department of Computer Science and Technology, Kean University,
Union, New Jersey, USA

- 0. Sequentially Clustered Social Opinions for Improved Churn Prediction in Customer Relationship Management
Ayodeji O.J. Ibitoye, Olufade F.W. Onifade
School of Computing and Mathematical Sciences, University of Greenwich, London, UK; Department of Computer Science, University of Ibadan, Ibadan, Nigeria

- 0. A Topic Clustering Method to Identify Online Threats against Soft Targets
Marco San Biagio, Marco Cipolla, Ernesto La Mattina, Vito Morreale
Digital Technologies Research and Innovation Lab, Engineering Ingegneria Informatica S.p.A., Palermo, Italy

RESEARCH TRACK ON EDUCATION (CSCI-RTED)
(Includes Use of ChatGPT + Online, STEM Education, ...)
<https://www.american-cse.org/csci2023/RTED>
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- 0. Embracing ChatGPT in the Teaching and Learning of Finite Element Analysis in Engineering Courses
Qiang Xu, Joan Lu
School of Computing and Engineering, University of Huddersfield, Huddersfield, UK
- 0. Analysis for Information Security in Virtual Environments for a Higher Education Institution
Carmita Ines Huerta Suarez, Segundo Moises Toapanta Toapanta, Eriannys Zharayth Gomez Diaz, Angel Ernesto Huerta Velez, Carmen Ines Suarez, Marcelo Zambrano Vizuet
Research Department, Instituto Tecnológico Superior Ruminahui, Sangolqui, Ecuador; Education Department, Instituto Tecnológico Superior Ruminahui, Sangolqui, Ecuador
- 0. Towards a Task Mining Recording Tool for the Automated Generation and Recording of xAPI Statements for Virtual Learning Environments
Ramona Srbecky, Matthias Hemmje
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Nikos Bessas, Eleni Tzanaki, Dionisios Vavougiou, Vassilis P. Plagianakos
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Gonzalo Davila, Juan Haro, Alexandra Gonzalez Eras, Omar Ruiz, and Daniel Guaman
Universidad Tecnica Particular de Loja Faculta de Ingenierias y Arquitectura, Departamento de Ciencias de la Computacion y Electronica, Ecuador
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Lydia Velazquez-Garcia, Maria Del Pilar Longar-Blanco, Antonio Cedillo-Hernandez, Eduardo Bustos-Farias
Instituto Politecnico Nacional, Ciudad de Mexico, Mexico; Tecnológico de Monterrey, Monterrey, Nuevo Leon, Mexico
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Nestor Andres Diaz Ortiz, Martha Jeannette Diaz Pena, and Flor Emelida Hortua Mora
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Heba Mahmoud Ismail, Ahmad Jasim Jasmy, Mohammad Bilal Mohammad Rasool
Department of Computer Science and Information Technology,
Abu Dhabi University, Abu Dhabi, United Arab Emirates, UAE

- 0. RecPlugin: New Functionality for Learning Resources Recommendation
Mohamed Rekik, Corinne Amel Zayani, Leila Ghorbel, Ronan Champagnat
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L3i Laboratory, La Rochelle University, France

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Marwan Omar, Darrell Burrell
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Capital Technology University, Maryland, USA
- 0. A Survey of Agile vs. Traditional Methods on Project Risk Management
Ibrahim Ibaad Syed, Vishal Goud Uppunuthula, Soma Datta
University of Houston-Clear Lake, Texas, USA
- 0. Converting WOX Objects to YAML Documents
Vivian P. Reynoso-Sanchez, Betzabet Garcia-Mendoza,
Carlos R. Jaimez-Gonzalez, Wulfrano A. Luna-Ramirez
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Metropolitana, Unidad Cuajimalpa, Mexico City, Mexico
- 0. SPAGIO - Non-Fungible Token Proposal for Ticketing Companies in Colombia
Juan Pablo Hurtado Nuvar, Leonardo Juan Ramirez Lopez
Engineering System Program, Universidad del Bosque, Bogota DC, Colombia
- 0. Modeling MAC Permissions Using Trust-Based Access Control and Actions
Marcel Danilescu, Laura Danilescu
ASWIC Ltd., Galati, Romania; Department of Computers and Information
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Lorena P. de Figueiredo, Thiago T. Gavanski, Jonathan P. Gomes,
Dinara M. Araujo, Rene L. de Almeida, Welton de A. Seabra,
Andre F. Da Cruz, Erick C. Bezerra
SIDIA R&D Institute, Manaus, Brazil
- 0. A Method For ODD Specification and Verification with Application for
Industrial Automated Driving Systems
Adina Aniculaesei, Christian Schindler, Christoph Knieke, Andreas Rausch,
Daniel Rohne, Andreas Richter
Institute for Software and Systems Engineering, Technische Universitat
Clausthal, Clausthal-Zellerfeld, Germany;
ADMT-GP/O, Volkswagen AG, Hannover, Germany
- 0. Web System for Visualizing and Executing Methods on Web Objects in XML
Betzabet Garcia-Mendoza, Jose M. Hernandez-Salinas, and
Carlos R. Jaimez-Gonzalez
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Metropolitana, Unidad Cuajimalpa, Mexico City, Mexico
- 0. Efficacy of Static Analysis Tools for Software Defect Detection on
Open-Source Projects
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Cincinnati, Ohio, USA

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