GENERAL INFORMATION

IMPORTANT:

To prepare the congress program/schedule, the title of all papers, authors names, affiliations were extracted from the meta-data of the draft paper submissions (manuscripts submitted by the authors for evaluation). Any changes to the titles of the final papers, authors names, affiliations are not reflected in this program.

ALL DATES AND TIMES ARE GIVEN IN USA PACIFIC TIME ZONE (PT).

REGISTRATION: CONFERENCE REGISTRATION DESK:

July 21 (Sunday): 04:00pm - 06:30pm July 22 (Monday): 07:00am - 05:00pm July 23 (Tuesday): 07:00am - 05:00pm July 24 (Wednesday): 07:00am - 05:00pm July 25 (Thursday): 07:00am - 02:00pm

(LOCATION: Ballrooms B & C)

BREAKFASTS: July 22 (Monday): 07:20am - 08:20am

July 23 (Tuesday): 07:20am - 08:20am July 24 (Wednesday): 07:20am - 08:20am July 25 (Thursday): 07:20am - 08:20am

(LOCATION: Ballrooms B & C)

DINNER: July 22 (Monday): 07:15pm - 09:30pm

(LOCATION: Velvet Room)

BREAKS: REFRESHMENTS

 July 22 (Monday):
 10:00am - 10:20am

 July 22 (Monday):
 03:00pm - 03:40pm

 July 23 (Tuesday):
 10:00am - 10:20am

 July 24 (Wednesday):
 10:00am - 10:20am

 July 24 (Wednesday):
 03:00pm - 03:40pm

 July 24 (Wednesday):
 03:00pm - 03:40pm

 July 25 (Thursday):
 10:00am - 10:20am

 July 25 (Thursday):
 03:00pm - 03:20pm

(LOCATION: Ballrooms B & C)

04:00p - 06:30pm: REGISTRATION

Sunday (LOCATION: Galleria B & C; Registration Counter/Desk)

07:00a - 05:00p: REGISTRATION

(LOCATION: Galleria B & C; Registration Counter/Desk)

<------ LOCATION: Ballrooms Galleria D & E ----->

08:30 - 08:50am: CONGRESS WELCOME REMARKS - July 22, Monday:

Professor Emeritus Hamid R. Arabnia (Chair, Steering

Committee & Coordinator), School of Computing,

University of Georgia, USA; Editor-in-Chief, The Journal of Supercomputing (Springer Nature); Fellow, Center of Excellence in Terrorism, Resilience, Intelligence &

Organized Crime Research (CENTRIC).

(LOCATION: Galleria D & E)

08:50 - 09:50am: KEYNOTE LECTURE - July 22, Monday:

THE EFFECT OF TECH SAVVINESS OF THE DESIGN AND INTERACTION

OF AI SYSTEMS: THE EXPLORATION OF TRUST

Professor John C. Murray

Academic Dean of the Faculty of Technology at the University

of Sunderland, UK, and

Professor of Robotics and Autonomous Systems,

University of Sunderland, UK

(Duration: 40 minutes lecture & 20 minutes of Q&A)

(LOCATION: Galleria D & E)

09:50 - 10:00am: INFORMATIONAL

ADVANCING DISCOVERY - Springer Nature's EquinOCS

Ms. Patti Davis Executive Editor Springer Nature

(LOCATION: Galleria D & E)

10:00 - 10:20am: BREAK (Refreshments)

(LOCATION: Galleria B & C; Registration Counter/Desk)

10:20 - 11:20am: KEYNOTE LECTURE - July 22, Monday:

THE DAWN OF COGNITIVE AI, SELF-AWARE ROBOTICS, AND THE

INDUSTRIAL METAVERSE Professor Dr. Diego Galar

Operation and Maintenance Engineering, Lulea University

of Technology (LTU), Sweden (LOCATION: Galleria D & E)

SESSION 1-MON (ACC TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: APPLIED COGNITIVE COMPUTING & RELATED TOPICS

Co-Chairs: TBA

July 22, 2024 (Monday); 11:20am - 12:20pm (LOCATION: Ballrooms Galleria D & E)

11:20 - 11:40am: High-Precision Method to Reduce Overfitting in ANNs using

Highly Uniform Chaotic Sequences

Samad Shirzadeh, Ken Ferens*, Witold Kinsner Department of Electrical and Computer Engineering,

University of Manitoba, Canada

11:40 - 12:00pm: Assessing Information Influence for Node Attribute Prediction

Tonni Das Jui*, Erich Baker, Mary Lauren Benton

Computer Science Department, Baylor University, Texas, USA;

Belmont University, Nashville, Tennessee, USA

12:00 - 12:20pm: Experimental Analysis of Contemporary Trends, Performance, and

Limitations in Graph Embeddings: A Comprehensive Review

Tonni Das Jui*, Erich Baker, Mary Lauren Benton

Computer Science Department, Baylor University, Texas, USA;

Belmont University, Nashville, Tennessee, USA

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

SESSION 2-MON (ICOMP TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: INTERNET COMPUTING & IOT

Co-Chairs: TBA

July 22, 2024 (Monday); 01:20pm - 03:00pm (LOCATION: Ballrooms Galleria D & E)

01:20 - 01:40pm: Understanding User Interactions with IoT Process Models:

A Demographic Perspective

Michael Winter*, Yusuf Kirikkayis, Rudiger Pryss, and

Manfred Reichert

Institute of Clinical Epidemiology and Biometry,

University of Wurzburg, Germany;

Institute of Medical Data Science, University Hospital of

Wurzburg, Germany;

Institute of Databases and Information Systems,

Ulm University, Ulm, Germany

01:40 - 02:00pm: Advancing IoT Process Modeling: A Comparative Evaluation of

BPMNE4IoT and Traditional BPMN on User-Friendliness,

Effectiveness, and Workload

Michael Winter*, Yusuf Kirikkayis, Rudiger Pryss, and

Manfred Reichert

Institute of Clinical Epidemiology and Biometry, University

of Wurzburg, Germany;

Institute of Medical Data Science, University Hospital of

Wurzburg, Germany

02:00 - 02:20pm: Malware Detection in the IoT Home Network

Haydar Teymourlouei*, Daryl Stone

Department of Technology & Security, Bowie State University,

Bowie, Maryland, USA

02:20 - 02:40pm: Towards Objective Comparison of Security Algorithms for

Resource-Constrained IoT Devices Marten Fischer*, Ralf Tonjes

Hochschule Osnabruck, Osnabruck, Germany;

University of Applied Sciences Osnabruck, Osnabruck, Germany

02:40 - 03:00pm: Re/Imagining Smart Home Automation Framework in the era of

6G-Enabled Smart Cities

Byungkwan Jung*, Suman Kumar, Adityasinh Manthansinh Chauhan Department of Computer Science, Troy University, Alabama, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTERS

July 22, 2024 (Monday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

O. Uncertainty Quantification for Ride Quality Mobility Tests using CREATE-GV Mercury
Jeremy Mange*, Sara Boyle
US Army - Ground Vehicle Systems Center, Warren,
Michigan, USA

O. From Static Graph Attention Generation to Dynamic Graph Attention Coefficient Tonni Das Jui*, Mary Lauren Benton, Erich Baker Computer Science Department, Baylor University, Waco, Texas, USA; Belmont University, Nashville, Tennessee, USA

- O. Application of Data Science Techniques to Performing Arts Toshiyuki Maeda*, Masumi Yajima, Akiyoshi Wakatani Hannan University, Japan
- O. A Framework for Evaluating Organization Accelerator Success David Keever Leidos, Inc., Reston, Virginia, USA
- O. A Low-Cost Automatic DEF Refueling Controller for Diesel Generators Dania Mosuli*, Hakduran Koc College of Science and Engineering, University of Houston-Clear Lake, Houston, Texas, USA
- O. Design Of an Autonomous Mower and Embedded Microcontroller Bassam Shaer*, Natalia Dejesus, Tyler Murray, Malcolm Jones ECE and ME Engineering Departments, University of West Florida, Fort Walton Beach, Florida, USA
- O. Leveraging Chatbots for Academic Advising to Help Overcome Advising Challenges Mel Akhimiemona, James Braman* Computer Science, Information Technology, Community College of Baltimore County, Baltimore, Maryland, USA

SESSION 3-MON (FCS TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: FOUNDATIONS OF COMPUTER SCIENCE

Co-Chairs: TBA

July 22, 2024 (Monday); 03:40pm - 04:40pm (LOCATION: Ballrooms Galleria D & E)

03:40 - 04:00pm: Exploring Efficient but Intricate Delivery Truck Routing

Heuristics in Supply Chain Management Ahmed Tarek*, Ahmed Alveed, Ahmed Farhan

Engineering, Physical, & Computer Sciences (EPCS) Department, Science, Engineering & Technology (SET) Division, Montgomery

College, Rockville, Maryland, USA;

The Wharton School, University of Pennsylvania, Philadelphia,

Pennsylvania, USA;

School of Medicine, The Johns Hopkins University, Baltimore,

Maryland, USA

04:00 - 04:20pm: Autosymmetry Using GF(2) Matrices

Peter M. Maurer

Department of Computer Science, Baylor University, Texas, USA

04:20 - 04:40pm: Triangle Packing in Graphs with Bounded Degree

Yong Zhang

Department of Computer Science and Information Technology,

Kutztown University, Kutztown, PA, USA

SESSION 4-MON (CSC TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SCIENTIFIC COMPUTING

Co-Chairs: TBA

July 22, 2024 (Monday); 04:40pm - 05:40pm (LOCATION: Ballrooms Galleria D & E)

04:40 - 05:00pm: Notes on Symmetric Generalized Tent Map: Route to Chaos

Peter Chtcheprov*, Andrei Chtcheprov

University of North Carolina, Chapel Hill, North Carolina, USA;

Independent researcher, Chapel Hill, North Carolina, USA

05:00 - 05:20pm: A New Approach Toward Interface-aware Methods for Diffusion

Equations William Dai

Los Alamos National Laboratory, Los Alamos, New Mexico, USA

05:20 - 05:40pm: An Evaluation Tool for Cybersickness Mitigation Techniques in

a Virtual Reality Environment

Guang Wei Too*, Alan Yuan, Ziqian Dong, Huanying Gu Department of Computer Science, New York Institute of

Technology, New York, USA;

Department of Electrical & Computer Engineering, New York Institute of Technology, New York, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 06:20pm: FREE SLOT

07:15 - 09:30pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 22 - Monday; 07:15pm (LOCATION: Velvet Room)

<------ LOCATION: Ballroom Galleria A -----> SESSION 5-MON (PDPTA TRACK): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: INTERNATIONAL WORKSHOP ON MATHEMATICAL MODELING AND PROBLEM SOLVING (MPS) Co-Chairs: Prof. Masahito Ohue*, Prof. Nobuaki Yasuo**, and Prof. Masami Takata*** * Tokyo Institute of Technology, Japan ** Tokyo Institute of Technology, Japan *** Nara Women's University, Japan July 22, 2024 (Monday); 11:20am - 12:20pm (LOCATION: Ballroom Galleria A) 11:20 - 11:40am: Inference of Cell-Cell Interactions through Spatial Transcriptomics Data Using Graph Convolutional Neural Networks Takahiro Hiura, Shigeto Seno*, Hideo Matsuda Graduate School of Information Science and Technology, Osaka University, Osaka, Japan 11:40 - 12:00pm: Natural Product-like Compound Generation with Chemical Language Models Koh Sakano, Kairi Furui, Masahito Ohue* Department of Computer Science, Tokyo Institute of Technology, Yokohama, Japan 12:00 - 12:20pm: Improved Early-modern Japanese Printed Character Recognition Rate with Generated Characters Norie Koiso*, Yuki Takemoto, Yu Ishikawa, Masami Takata Graduate School of Humanities and Sciences, Nara Women's University, Nara, Japan 12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 6-MON (PDPTA TRACK): MPS - Continued ...
(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: INTERNATIONAL WORKSHOP ON MATHEMATICAL MODELING AND PROBLEM SOLVING (MPS)

Co-Chairs: Prof. Masahito Ohue*, Prof. Nobuaki Yasuo**, and

Prof. Masami Takata***

* Tokyo Institute of Technology, Japan** Tokyo Institute of Technology, Japan

*** Nara Women's University, Japan

July 22, 2024 (Monday); 01:20pm - 03:00pm (LOCATION: Ballroom Galleria A)

01:20 - 01:40pm: Improved Method for Similar Music Recommendation using

Spotify API

Miho Chiyonobu, Masami Takata*

Research Group of Information and Communication Technology

for Life, Nara Women's University, Nara, Japan

01:40 - 02:00pm: Reconfigurable Virtual Accelerator (ReVA) for Large-Scale

Acceleration Circuits

Yaguchi Kazuki*, Eriko Maeda, Syunya Kawai, Daichi Teruya,

Yasunori Osana, Takefumi Miyoshi, Hironori Nakajo Graduate School of Engineering, Tokyo University of

Agriculture and Technology, Tokyo, Japan

02:00 - 02:20pm: Building Simulation Environment of (Reconfigurable Virtual

Accelerator) ReVA

Shunya Kawai*, Eriko Maeda, Kazuki Yaguchi, Yasunori Osana,

Takefumi Miyoshi, Hironori Nakajo

Graduate School of Engineering, Tokyo University of Agriculture

and Technology, Tokyo, Japan

02:20 - 02:40pm: Vector Register Sharing Mechanism for High Performance

Hardware Acceleration

Tomoaki Tanaka*, Michiya Kato, Yasunori Osana, Takefumi Miyoshi,

Jubee Tada, Kiyofumi Tanaka, Hironori Nakajo

Graduate School of Engineering, Tokyo University of Agriculture

and Technology, Tokyo, Japan

02:40 - 03:00pm: Efficient Compute Resource Sharing of RISC-V Packed-SIMD using

Simultaneous Multi-Threading Shogo Takata*, Hironori Nakajo

Graduate School of Engineering, Tokyo University of Agriculture

and Technology, Tokyo, Japan

03:00 - 03:40pm: BREAK (Refreshments) & POSTERS July 22, 2024 (Monday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

- O. Uncertainty Quantification for Ride Quality Mobility Tests using CREATE-GV Mercury
 Jeremy Mange*, Sara Boyle
 US Army Ground Vehicle Systems Center, Warren,
 Michigan, USA
- O. From Static Graph Attention Generation to Dynamic Graph Attention Coefficient Tonni Das Jui*, Mary Lauren Benton, Erich Baker Computer Science Department, Baylor University, Waco, Texas, USA; Belmont University, Nashville, Tennessee, USA
- O. Application of Data Science Techniques to Performing Arts Toshiyuki Maeda*, Masumi Yajima, Akiyoshi Wakatani Hannan University, Japan
- O. A Framework for Evaluating Organization Accelerator Success David Keever Leidos, Inc., Reston, Virginia, USA
- O. A Low-Cost Automatic DEF Refueling Controller for Diesel Generators Dania Mosuli*, Hakduran Koc College of Science and Engineering, University of Houston-Clear Lake, Houston, Texas, USA
- O. Design Of an Autonomous Mower and Embedded Microcontroller Bassam Shaer*, Natalia Dejesus, Tyler Murray, Malcolm Jones ECE and ME Engineering Departments, University of West Florida, Fort Walton Beach, Florida, USA
- O. Leveraging Chatbots for Academic Advising to Help Overcome Advising Challenges Mel Akhimiemona, James Braman* Computer Science, Information Technology, Community College of Baltimore County, Baltimore, Maryland, USA

SESSION 7-MON (PDPTA TRACK): MPS - Continued ... (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: INTERNATIONAL WORKSHOP ON MATHEMATICAL MODELING AND PROBLEM SOLVING (MPS) Co-Chairs: Prof. Masahito Ohue*, Prof. Nobuaki Yasuo**, and Prof. Masami Takata*** * Tokyo Institute of Technology, Japan ** Tokyo Institute of Technology, Japan *** Nara Women's University, Japan July 22, 2024 (Monday); 03:40pm - 05:40pm (LOCATION: Ballroom Galleria A) Introducing Competitive Mechanism to Differential Evolution 03:40 - 04:00pm: for Numerical Optimization Rui Zhong*, Enzhi Zhang, Masaharu Munetomo Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan 04:00 - 04:20pm: Hyper-heuristic Differential Evolution with Novel Boundary Repair for Numerical Optimization Rui Zhong*, Jun Yu, Masaharu Munetomo Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan Jump Like a Frog: Optimization of Renewable Energy Prediction 04:20 - 04:40pm: in Smart Gird Based on Ultra Long Term Network Xingbang Du*, Enzhi Zhang Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan 04:40 - 05:00pm: Vision Transformer-based Meta Loss Landscape Exploration with Actor-Critic Method Enzhi Zhang*, Rui Zhong, Du Xingbang, Mohamed Wahib, and Masaharu Munetomo Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan 05:00 - 05:20pm: Fast Computation Method for Stopping Condition of Range Restricted GMRES Method Miho Chiyonobu, Masami Takata*, Kinji Kimura, and Yoshimasa Nakamura Research Group of Information and Communication Technology for Life, Nara Women's University, Nara, Japan 05:20 - 05:40pm: Implementation of the OQDS Method for Principal Component Analysis Miho Chiyonobu*, Masami Takata, Kinji Kimura, and Yoshimasa Nakamura Graduate school of Humanities and Sciences, Nara Women's University, Nara, Japan 05:40 - 06:00pm: FREE SLOT 06:00 - 06:20pm: FREE SLOT CONFERENCE RECEPTION DINNER / SOCIAL 07:15 - 09:30pm: July 22 - Monday; 07:15pm (LOCATION: Velvet Room)

ONLINE / ZOOM SESSIONS ALL DATES AND TIMES ARE GIVEN IN USA PACIFIC TIME ZONE (PT).

SESSION 1-ZOOM: ---> FECS + CSC + HIMS + SERP TRACKS

SCOPE: FRONTIERS IN EDUCATION + SCIENTIFIC COMPUTING +

HEALTH INFORMATICS + SOFTWARE ENGINEERING

Chairs: TBA

July 22, 2024 (Monday); 08:00am - 10:20am

(ON-LINE / ZOOM)

08:00 - 08:20am: Structural Health Monitoring for Risk Assessment and

Reliability of a Structure After Extreme Loads

Umesh Chand*, Chandrasekhar Putcha

Department of Civil Engineering, Delhi Skill and Entrepreneurship University, New Delhi, India; Civil and Environmental Engineering Department,

California State University, Fullerton, California, USA

08:20 - 08:40am: Automatic Wound Detection System for Multi-Ethnic Populations

using YOLO

Naveen Varghese Jacob*, Sowmya V., Gopalakrishnan E.A.,

Riju Ramachandran, Anoop Vasudevan Pillai

Amrita School of Artificial Intelligence, Coimbatore, Amrita Vishwa Vidyapeetham, India; Amrita School of Artificial Intelligence, Bangalore, Amrita Vishwa Vidyapeetham, India; Amrita School of Computing, Bangalore, Amrita Vishwa

Vidyapeetham, India; Amrita Institute of Medical Sciences,

Kochi, Amrita Vishwa Vidyapeetham, India

08:40 - 09:00am: Predictive Modelling for Length of Stay with the MIMIC-III

Critical Care Database

Dulan S. Dias*, Adele H. Marshall, Aleksandar Novakovic

School of Mathematics and Physics, Queen's University Belfast,

Belfast, UK;

Faculty of Business and IT, Ontario Tech University,

Oshawa, Canada

09:00 - 09:20am: Exploring the Impact of Social Media on Mental Health and

Well-being: A Multi-Dimensional Analysis Vasit Ali, Cristina Hava Muntean, Abid Yaqoob School of Computing, National College of Ireland,

Dublin, Ireland;

School of Electronic Engineering, Dublin City University,

Dublin, Ireland

09:20 - 09:40am: Coding Process Visualizations for Improved Learning and

Academic Integrity in CS1

Badri Adhikari*, Nirala Lamichhane

Department of Computer Science, University of

Missouri-St. Louis, Missouri, USA;

Department of Electronics & Computer Engineering, Tribhuvan

University (ACEM), Kathmandu, Nepal

09:40 - 10:00am: Plan-based and Agile Companies: A Comparison of Project

Management Approaches

Ilya Khomyakov, Manuel Mazzara, Ruzilya Mirgalimova,

and Alberto Sillitti*

Innopolis University, Russia Federation; Centre for Applied Software Engineering, Italy

10:00 - 10:20am: FREE SLOT

SESSION 2-ZOOM: ---> ICAI, ACC, CSC TRACKS

SCOPE: ARTIFICIAL INTELLIGENCE + COGNITIVE COMPUTING +

SCIENTIFIC COMPUTING

Chairs: TBA

July 22, 2024 (Monday); 10:20am - 01:00pm

(ON-LINE / ZOOM)

10:20 - 10:40am: Revisiting the Nexus Between Handwriting and Personality:

Graphology

Yan Xu*, Ching Y. Suen

Department of CS and SWE, Concordia University,

Montreal, Canada;

School of Journalism and Communication, Shandong Normal University, Jinan, China

10:40 - 11:00am: Analysis of the Integration of Artificial Intelligence and

Blockchain Technology in a Legal Process in Ecuador

Diego Gustavo Andrade Armas, Segundo Moises Toapanta Toapanta, Joseph Alexander Guaman Seis, Jose Antonio Orizaga Trejo, Maria Mercedes Bano Hifong, Ma. Rocio Maciel Arellano Research Department, External, Independient Investigator,

Ibarra, Ecuador;

Centro de Investigacion Mecatronica y Sistemas Interactivos (MIST), Universidad Tecnologica Indoamerica, Ambato, Ecuador; Technology Directorate, Universidad de las Fuerzas Armadas

(ESPE), Sangolqui, Ecuador;

Department of Information Systems, Universidad de Guadalajara

(CUCEA-UDG), Guadalajara, Mexico;

Postgraduate Subsystems, Universidad Catolica de Santiago de

Guayaquil (UCSG), Guayaquil, Ecuador

11:00 - 11:20am: XAI-based Assessment of Software Vulnerability Contributing

Factors in Transformer Models

Ding Li, Yan Liu*

Department of Electrical and Computer Engineering, Concordia University, Montreal, Quebec, Canada

11:20 - 11:40am: Driving Planner for Freight Trains Using Reinforcement Learning

Gabriel Jose Costa Barros*, Paulo Andre Lima de Castro Autonomous Computational Systems Lab (LABSCA), Aeronautics Institute of Technology (ITA), Sao Jose dos Campos, Brazil

11:40a - 12:00p: Causal Discovery with Interactive Human Inputs

Jin Cao*, Renxiong Liu Nokia, Bell Labs, USA; Meta Platforms, USA

12:00 - 12:20pm: Federated Learning with Frequency Estimation for Smart

Meter Systems Olivera Kotevska

Computer Science and Mathematics,

Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA

12:20 - 12:40pm: Restating the Prowess of Logic Programming

Feng-Jen Yang

Department of Computer Science,

Florida Polytechnic University, Lakeland, Florida, USA

12:40 - 01:00pm: The Strategic Optimization of a Tabletop Role-Playing Game

Zhi Zheng, Nicholas Porter, Toby Hilliard, Feng-Jen Yang*

Data Science and Business Analytics Department,

Florida Polytechnic University, Lakeland, Florida, USA; Computer Science Department, Florida Polytechnic University,

Lakeland, Florida, USA

SESSION 3-ZOOM: ---> BIOCOMP + ACC + ICWN + SAM TRACKS

SCOPE: BIOINFORMATICS & COMPUTATIONAL BIOLOGY +

COGNITIVE COMPUTING + WIRELESS NETWORKS / SECURITY

Chairs: TBA

July 22, 2024 (Monday); 01:00pm - 03:00pm

(ON-LINE / ZOOM)

01:00 - 01:20pm: Dihedral Angle Adherence: Evaluating Protein Structure

Predictions in the Absence of Experimental Data

Musa Azeem*, Homayoun Valafar

Department of Computer Science and Engineering, University of South Carolina, Columbia, USA

01:20 - 01:40pm: HIBR: A Hybrid Intelligent Brainwave Recognition Model with

Higher Accuracy

Temesgen Alemayehu Tikure*, Md Julfiker Ali Jewel,

David Coleman, Anh Le, Thanh Le, Fred Wu

Department of Math and Computer Science, West Virginia State

University, Institute, West Virginia, USA;

Henry M. Gunn High School, Palo Alto, California, USA;

Department of Economic, UEH University, Hochiminh City, Vietnam

01:40 - 02:00pm: An Integrated Approach for AI-Assisted Survey Systems Using

Deterministic and Nondeterministic Models

Yilian Zhang*, Andrew Hunt

Department of Computer Science, Engineering & Mathematics, University of South Carolina Aiken, Aiken, South Carolina, USA

02:00 - 02:20pm: Infusing Human Feedback into Intermediate Prompting Steps of

Large Language Models

Wangfan Li*, Claire Gendron, Carlos Toxtli Human-AI Empowerment Lab, Clemson University,

Clemson, South Carolina, USA

02:20 - 02:40pm: Implementation and Performance Evaluation of a Wireless

Covert Channel

Kevin Kwik, Mohammad Husain

Computer Science, Cal Poly Pomona, Pomona, California, USA

02:40 - 03:00pm: Adaptive Network Recovery: A Feedback-Driven Approach to

Enhancing Resilience Against DDoS Attack

Waseem Al Aqqad, Mais Nijim*, Hisham Albataineh Electrical and Computer Engineering Department,

West Virginia University, Institute, West Virginia, USA; Electrical Engineering and Computer Science Department,

Texas A&M University, Kingsville, Texas, USA;

Physics and Geosciences Department, Texas A&M University,

Kingsville, Texas, USA

SESSION 4-ZOOM: ---> EEE + IKE HIMS + SERP TRACKS

SCOPE: E-LEARNING, e-bUSINESS, EIS & E-GOVERNMENT +
INFORMATION & KNOWLEDGE ENGINEERING +
HEALTH INFORMATICS + SOFTWARE ENGINEERING

Chairs: TBA

July 22, 2024 (Monday); 03:00pm - 05:20pm

(ON-LINE / ZOOM)

03:00 - 03:20pm: The Shifting Landscape of Cybersecurity: The Impact of Remote

Work and COVID-19 on Data Breach Trends

Murat Ozer*, Yasin Kose, Mehmet Bastug, Goksel Kucukkaya,

and Eva Ruhsar Varlioglu

School of Information Technology, University of Cincinnati,

Cincinnati, Ohio, USA;

Friedrich-Alexander-Universitat, Cybercrime and Forensic

Computing, Erlangen, Germany;

CJ and Criminology Department, University of Scranton,

Scranton, PA, USA;

School of Criminal Justice, University of Cincinnati,

Cincinnati, Ohio, USA

03:20 - 03:40pm: A Systems Approach to Improving e-Learning using Theory of

Constraints

Nancy Oley, Murthy Cheruvu, Vikas Ashok, Ravi Mukkamala Medgar Evers College, CUNY, Brooklyn, New York, USA;

Hopewell Junction, New York, USA;

Old Dominion University, Norfolk, Virginia, USA

03:40 - 04:00pm: The Fast Food Review Online

Jack Taylor, Zizhong John Wang*

Department of Computer Science, Virginia Wesleyan University,

Virginia Beach, Virginia, USA

04:00 - 04:20pm: An Online Bookstore Design and Implementation

Jacob Wilson, Zizhong John Wang*

Department of Computer Science, Virginia Wesleyan University,

Virginia Beach, Virginia, USA

04:20 - 04:40pm: Experimental Study on Assistive System using Statistical

Signal Processing Technology for Visually Impaired People

Shunji Shimizu*, Masaya Hori, Hiroaki Inoue,

Fumikazu Miwakeichi, Nobuhide Hirai, Senichiro Kikuchi,

and Satoshi Kato

Suwa University of Science, Chino, Japan;

The Institute of Statistical Mathematics, Tachikawa, Japan;

Tokyo Medical and Dental University, Bunkyo, Japan;

Gunma University, Maebashi, Japan;

Jichi Medical University, Shimotsuke, Japan

04:40 - 05:00pm: Experimental Study on Evaluation Method of Orientation and

Mobility Skills for Visually Impaired People based on

Brain Activity

Masaya Hori*, Shunji Shimizu, Hiroaki Inoue, Yoshikazu Seki,

Eiju Watanabe, Shiro Suda, Satoshi Kato Suwa University of Science, Chino, Japan;

National Institute of Advanced Industrial Science and

Technology (AIST), Tsukuba, Japan;

Jichi Medical University, Shimotsuke, Japan

05:00 - 05:20pm: Development of a Desktop Agent System Using GPT

Takahiro Ando*, Shintaro Sakamoto

Faculty of Informatics, Gunma University, Gunma, Japan;

Graduate School of Science and Technology,

Gunma University, Gunma, Japan

SESSION 5-ZOOM: ---> IPCV TRACK

SCOPE: IMAGE PROCESSING, COMPUTER VISION, &

PATTERN RECOGNITION

Chairs: TBA

July 22, 2024 (Monday); 05:20pm - 06:20pm

(ON-LINE / ZOOM)

05:20 - 05:40pm: Contour Detection of Seeds Based on Traditional and

Convolutional Neural Network (CNN) Based Algorithms

Kai Zhao, Mitchell L. Neilsen

Department of Computer Science, Kansas State University,

Manhattan, Kansas, USA

05:40 - 06:00pm: Mobility Anomaly Detection with Video Surveillance

Fatemeh Ebrahimi*, Jacqueline Rousseau, Jean Meunier Department of Computer Science and Operations Research,

University of Montreal, Montreal, Canada;

School of Rehabilitation, University of Montreal,

Montreal, Canada

06:00 - 06:20pm: Towards Elephants Intelligent Monitoring in Zakouma

National Park, Chad

Oumar Hassan, Daouda Ahmat, Azza Youssouf, and

Alladoumbaye Ngueilbaye

Virtual University of Chad, N'Djamena, Chad; University of N'Djamena, N'Djamena, Chad; Shenzhen University, Shenzhen, China

07:00a - 05:00p: REGISTRATION (LOCATION: Galleria B & C; Registration Counter/Desk) <----> LOCATION: Ballrooms Galleria D & E -----> 08:20 - 09:00am: TUTORIAL/KEYNOTE - July 23, Tuesday: EXPLAINING THE DESIGN OF THE QUANTUM FOURIER TRANSFORM Prof. Leon Deligiannidis Professor & Interim Dean School of Computing and Data Science, Wentworth Institute of Technology, Massachusetts, USA (LOCATION: Galleria D & E) SESSION 8-TUE (CSC TRACK): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: MILITARY AND DEFENSE MODELING AND SIMULATION Co-Chairs: Prof. Douglas D. Hodson (Chair)*, Prof. Michael R. Grimaila**, Dr. Torrey J. Wagner*** Computer Science and Engineering Department, US Air Force Institute of Technology (AFIT), USA ** Head, Systems Engineering & Management Department, US Air Force Institute of Technology (AFIT), USA ***Data Analytics, supporting the AFIT/EN Data Analytics graduate certificate program July 23, 2024 (Tuesday); 09:00am - 10:20am (LOCATION: Galleria D & E) 09:00 - 09:20am: Performance Evaluation of Utilizing Rust for PCAP Analysis in Satellite Cybersecurity Samual M. Asher*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 09:20 - 09:40am: Austere Runway Simulated Identification Luke H. Boyd*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 09:40 - 10:00am: Using Rhai to Create & Benchmark Bevy Entities John H. Hardy*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 10:00 - 10:20am: BREAK (Refreshments) July 23, 2024 (Tuesday) (LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 9-TUE (CSC TRACK): Continued ... (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: MILITARY AND DEFENSE MODELING AND SIMULATION Co-Chairs: Prof. Douglas D. Hodson (Chair)*, Prof. Michael R. Grimaila**, Dr. Torrey J. Wagner*** Computer Science and Engineering Department, US Air Force Institute of Technology (AFIT), USA ** Head, Systems Engineering & Management Department, US Air Force Institute of Technology (AFIT), USA ***Data Analytics, supporting the AFIT/EN Data Analytics graduate certificate program July 23, 2024 (Tuesday); 10:20am - 12:40pm (LOCATION: Galleria D & E) 10:20 - 11:00am: PyQ3: Building Python Extension Modules in Native Rust with Performance and Safety in Mind Price D. Johnson*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 11:00 - 11:20am: Leveraging Python Interpreters for Concurrency in SeQUeNCe Brett M. Martin*, Michael R. Grimaila, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 11:20 - 11:40am: Benchmark Performance of a Rust-based Python Extension Ethan J. Schofield*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 11:40 - 12:00pm: Quantum Error Correction in Repetition Codes James A. Williams*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 12:00 - 12:20pm: Investigating Selective Reliability with the Laminar Networking Package Ryan D. Winz*, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA 12:20 - 12:40pm: A Bell State Measurement Throughput Analysis Using Linear Quantum Optics Kurt T. Spranger*, Michael R. Grimaila, Douglas D. Hodson The Air Force Institute of Technology, WPAFB, Ohio, USA

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 10-TUE (IPCV TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: IMAGE PROCESSING, COMPUTER VISION, & PATTERN

RECOGNITION

Co-Chairs: TBA

July 23, 2024 (Tuesday); 01:20pm - 03:00pm

(LOCATION: Galleria D & E)

01:20 - 01:40pm: Computer-Aided Industrial Inspection for Manual Tools using

Computer Vision Technologies Hong-Dar Lin*, Cheng-Kai Jheng

Department of Industrial Engineering and Management, Chaoyang University of Technology, Taichung, Taiwan

01:40 - 02:00pm: Improving Accuracy of Image Clustering using Convolutional

Neural Network and Learning from Confusion

Md Farhad Mokter, JungHwan Oh*

Department of Computer Science and Engineering, University of North Texas, Denton, Texas, USA

02:00 - 02:20pm: Analysis of Driver Attention to Objects While Driving

Kolby Sarson, Michael Bauer*

Department of Computer Science, The University of Western

Ontario, London, Ontario, Canada

02:20 - 02:40pm: Novel Method to Investigate Decay in Rotting Bananas Using

RGB Color Images

Unal McLauchlan, Mehrube Mehrubeoglu*, Lifford McLauchlan

W. B. Ray, Corpus Christi, Texas, USA;

Texas A&M University - Corpus Christi, Texas, USA; Texas A&M University - Kingsville, Texas, USA

02:40 - 03:00pm: Early Detection of Lameness in Dairy Cattle Using Activity

Data, Image Analysis, AI and ML - An Approach for Improved

Animal Welfare and Economic Impact

Chandrasekar Vuppalapati*, Anitha Ilapakurti,

Sandhya Vissapragada, Sharat Kedari*, Sriya Vuppalapati,

Santosh Kedari, Jaya Shankar

San Jose State University, San Jose, California, USA;

Hanumayamma Innovations and Technologies, Inc.,

Fremont, California, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTERS
July 23, 2024 (Tuesday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

O. Leveraging Deep Learning for Predictive Maintenance in Manufacturing Tebasu Lisangi, Floribert Monga LSG Consulting Group Inc., Toronto, Ontario, Canada

- O. Identifying and Displaying EdTech Implementation Context Profiles Brian Wright*, Christine Tomasik, Ali Rivera School of Data Science, University of Virginia, Charlottesville, Virginia, USA; InnovateEdU, New York City, New York, USA
- O. Enhancing Cancer Cell Detection in H&E Images through AI Ryan Z. Cheng Harvard-Westlake School, USA
- O. Enhancing Supply Chain Operations with Machine Learning Forecasts
 P. Rodriguez, P. Gonzalez, M. Luna*, B. Ponte
 Escuela Politecnica de Ingenieria de Gijon, Campus de
 Viesques s/n, Gijon (Asturias), Spain
- O. Sovereign Road Funds: Leveraging Financing for Sustainable Infrastructure in Emerging Markets
 J. Martinez, S. Fernandez-Vazquez, R. Rosillo,
 D. de la Fuente
 Escuela Politecnica de Ingenieria de Gijon, Campus de
 Viesques s/n, Gijon (Asturias), Spain
- O. Some Examples of the Use of knowledge Engineering for a Better Exploitation of Massive Company Data C. Vegega, F. Pollo-Cataneo, J. A. Olivas GEMIS Research Team, National Technological University, Regional Faculty Buenos Aires, Buenos Aires, Argentina
- Human-Centered Industry 5.0: Enhancing Supply Chain Resilience and Sustainable Practices
 Leon, B. Kanat, J. Puente, I. Fernandez Escuela Politecnica de Ingenieria de Gijon, Campus de Viesques s/n, Gijon (Asturias), Spain

SESSION 11-TUE (ESCS TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: EMBEDDED SYSTEMS, CYBER-PHYSICAL SYSTEMS, & APPLICATIONS

Co-Chairs: TBA

July 23, 2024 (Tuesday); 03:40pm - 05:00pm

(LOCATION: Galleria D & E)

03:40 - 04:00pm: Reliable I/F Circuit for Embedded Self-Timed Data-Driven

Processors

Riku Uemoto, Makoto Iwata

Graduate School of Engineering, Kochi University of Technology,

Kami, Kochi, Japan;

School of Informatics, Kochi University of Technology, Kami,

Kochi, Japan

04:00 - 04:20pm: Using Heuristics and Byte Histograms to Detect Anomalies in OT

Network Traffic

Philip Rahal, Jack Nunnelee, Alex Howe, Mauricio Papa

The University of Tulsa, Tulsa, Oklahoma, USA

04:20 - 04:40pm: Analytical Study of Attacks and Defenses for IoT in Critical

Infrastrucure

Ali Al-Sinayyid*, Timothy Sanford Ii, Alexander Sanchez, Kadiyala Sasidhar, Venkatesh Mannuru, Rohith Reddy Battula

Department of Mathematics and Computer Science,

West Virginia State University, Institute, West Virginia, USA

04:40 - 05:00pm: Enhancing Cybersecurity in Industrial Internet of Things:

Machine Learning-based Approaches for Cyber-attack Detection

in a Real-world Testbed Environment

Cayden Scott Cather, Eman Hammad, Yuehua Wang

Computer Science Department, Texas A&M University-Commerce,

Commerce, Texas, USA;

Engineering Technology and Industrial Distribution, Texas A&M University, College Station, Texas, USA

SESSION 12-TUE (ICOMP TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: INTERNET COMPUTING & IOT + RELATED TOPICS

Co-Chairs: TBA

July 23, 2024 (Tuesday); 05:00pm - 06:00pm

(LOCATION: Galleria D & E)

05:00 - 05:20pm: Towards Implementation of Privacy-preserving Federated

Learning Aggregation using Multi-key Homomorphic Encryption

Svetlana Boudko

DART, Norwegian Computing Center, Oslo, Norway

05:20 - 05:40pm: The Vital Role of Small and Marginal Farmer in Future of our

Climate: Democratization of Machine Learning, Artificial Intelligence, and Dairy Cow Necklace Sensors in Achieving the UN Climate Change Goals (COP21) and the Paris Agreement

Chandrasekar Vuppalapati*, Anitha Ilapakurti*, Sandhya Vissapragada, Vanaja Mamidi, Sriya Vuppalapati,

Akshay Vuppalapati, Sharat Kedari, Santosh Kedari,

Jaya Vuppalapati, Karthik Kallakur, Koduru Rajasri, Narendra Lella Computer Engineering (CMPE Department), San Jose State University,

San Jose, California, USA;

Hanumayamma Innovations and Technologiesa PVT Limited,

Hyderbad, India; Hanumayamma Innovations and Technologies, Inc.,

Fremont, California, USA;

05:40 - 06:00pm: MultiDrone Simulator - An Open Source Multi-Plataform Tool to

Use in Tests of Optimized Flight of Group of Drones

Robison Cris Brito*, Huilson Jose Lorenzi, Alfredo Weitzenfeld,

and Eduardo Todt

Federal University of Technology, UTFPR, Brazil; Univeristy of South Florida, USF, Florida, USA

06:00 - 06:20pm: FREE SLOT

<-----> LOCATION: Ballroom Galleria A ----->

SESSION 13-TUE (BIOCOMP & BIOENG TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: BIOINFORMATICS & COMPUTATIONAL BIOLOGY +

BIOMEDICAL ENGINEERING

Co-Chairs: TBA

July 23, 2024 (Tuesday); 09:00am - 10:00am

(LOCATION: Ballroom Galleria A)

09:00 - 09:20am: Early Alzheimer's Detection: Bidirectional LSTM and Attention

Mechanisms in Eye Tracking

Mehdi Ghayoumi*, Kambiz Ghazinour

CyberSecurity Department, SUNY at Canton, New York, USA

09:20 - 09:40am: Synthetic Generation of Escape Sequences for Escape-prediction

of SARS-COV-2

Prem Singh Bist*, Hilal Tayara, Kil To Chong

Department of Electronics & Information Engineering,

Jeonbuk National University, South Korea

09:40 - 10:00am: Rethinking Transfer Learning for Histopathology Cancer

Detection: HistoNet

Ankur Yadav, Ovidiu Daescu

Department of Computer Science, The University of Texas

at Dallas, Richardson, Texas, USA

10:00 - 10:20am: BREAK (Refreshments)

July 23, 2024 (Tuesday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 14-TUE (FECS & EEE TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: FRONTIERS IN EDUCATION: CS & CS +

E-LEARNING, E-BUSINESS, EIS, & E-GOVERNMENT

Co-Chairs: TBA

July 23, 2024 (Tuesday); 10:20am - 12:20pm

(LOCATION: Ballroom Galleria A)

10:20 - 11:00am: A Longitudinal Study to Investigate the Impact of a

Service-Learning Course on Its Participants Xin Xu*, Wei Jin, Rahaf Barakat, Sonal Dekhane, Cengiz Gunay, Anca Doloc Mihu, Cindy Robertson

Georgia Gwinnett College, Georgia, USA

11:00 - 11:20am: A Personal Tutoring Bot With VR/AR Tools

Juan (Andy) Wang

School of ICCS, Northern Arizona University, Flagstaff,

Arizona, USA

11:20 - 11:40am: Industry Sabbaticals in Computing: Motivation and Preparation

Mark C. Lewis, Lisa L. Lacher, Zachary Kurmas Department of Computer Science, Trinity University,

San Antonio, Texas, USA;

College of Computing, Grand Valley State University,

Allendale, Michigan, USA

11:40 - 12:00pm: Navigating Challenges in E-participation: A Comprehensive

Meta-Analysis

Mayssa Bougherra, Abdul Khalique Shaikh*, Saranjam Baig,

and Naresh Adhikari*

Northumbria University, Newcastle upon Tyne, United Kingdom; Department of Information Systems, Sultan Qaboos University, Muscat, Oman; Department of Political Science, Sultan Qaboos

University, Muscat, Oman;

Slippery Rock University of Pennsylvania, Pennsylvania, USA

12:00 - 12:20pm: Metrology Training for EE/CE Students

Juan (Andy) Wang

School of SICCS, Northern Arizona University, Flagstaff,

Arizona, USA

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

SESSION 15-TUE (GCC + PDPTA + ICDATA TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: CLOUD COMPUTING + HPC + DATA SCIENCE + EDGE COMPUTING

Co-Chairs: TBA

July 23, 2024 (Tuesday); 01:20pm - 03:20pm

(LOCATION: Ballroom Galleria A)

01:20 - 01:40pm: Enhancing Data Security with Decentralized Cloud Storage:

An IPFS Approach

Ajinkya Prabhu Jadhav, Sushanth S. Manakhari Department of Computer and Information Science,

Gannon University, Erie, PA, USA

01:40 - 02:00pm: Parallel N-Body Performance Comparison: Julia, Rust, and More

Mark C. Lewis*, Clarissa Garcia, Audrey Tollett,

Seven Aguirre, Henry Hafner, John Mcmahon, Amanda Sickafoose Computer Science, Trinity University, San Antonio, Texas, USA;

Planetary Science Institute, Tuscon, Arizona, USA

02:00 - 02:20pm: Accelerating Cloud Database Recovery for Providing Real-time

Service After a Cyberattack Brajendra Panda*, Noah Buchanan

Electrical Engineering and Computer Science Department, University of Arkansas, Fayetteville, Arkansas, USA

02:20 - 02:40pm: Using Minicasts for Efficient Asynchronous Causal Unicast and

Byzantine Tolerance

Laine Rumreich*, Paolo A.G. Sivilotti

Department of Computer Science and Engineering, The Ohio State University, Columbus, Ohio, USA

02:40 - 03:00pm: An Edge Computing Architecture for Autonomous Vehicles

Hassan Rajaei*, Sai Anusha Kodali, Niharika Mulinti

Department of Computer Science, Bowling Green State University,

Bowling Green, Ohio, USA

03:00 - 03:20pm: Big Data Techniques in Mobile Cloud Networks for Healthcare:

A Survey of Challenges, Opportunities, and Future Directions

Saleh Al-Sharaeh*, Bulqais M M Alenezi

King Abdullah II School of Information Technology,

Department of Computer Science, The Univesity of Jordan,

Amman, Jordan

03:20 - 03:40pm: BREAK (Refreshments) & POSTERS July 23, 2024 (Tuesday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

- O. Leveraging Deep Learning for Predictive Maintenance in Manufacturing Tebasu Lisangi, Floribert Monga LSG Consulting Group Inc., Toronto, Ontario, Canada
- O. Identifying and Displaying EdTech Implementation Context Profiles Brian Wright*, Christine Tomasik, Ali Rivera School of Data Science, University of Virginia, Charlottesville, Virginia, USA; InnovateEdU, New York City, New York, USA
- O. Enhancing Cancer Cell Detection in H&E Images through AI Ryan Z. Cheng Harvard-Westlake School, USA
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- O. Sovereign Road Funds: Leveraging Financing for Sustainable Infrastructure in Emerging Markets
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- O. Some Examples of the Use of knowledge Engineering for a Better Exploitation of Massive Company Data C. Vegega, F. Pollo-Cataneo, J. A. Olivas GEMIS Research Team, National Technological University, Regional Faculty Buenos Aires, Buenos Aires, Argentina
- O. Human-Centered Industry 5.0: Enhancing Supply Chain Resilience and Sustainable Practices O. Leon, B. Kanat, J. Puente, I. Fernandez Escuela Politecnica de Ingenieria de Gijon, Campus de Viesques s/n, Gijon (Asturias), Spain

SESSION 16-TUE (ICAI TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: ARTIFICIAL INTELLIGENCE AND APPLICATIONS

Co-Chairs: TBA

July 23, 2024 (Tuesday); 03:40pm - 04:40pm

(LOCATION: Ballroom Galleria A)

03:40 - 04:00pm: An Analysis of Different Information Granularity Distribution

Protocols to Improve Consistency in Intuitionistic Reciprocal

Preference Relations

Juan Carlos Gonzalez-Quesada, Francisco Javier Cabrerizo,

Sergio Alonso Burgos, Juan Antonio Morente-Molinera,

Ignacio Javier Perez, Enrique Herrera-Viedma

Department of Computer Science and Artificial Intelligence,

University of Granada, Spain;

Department of Software Engineering, University of Granada, Spain

04:00 - 04:20pm: Demand Forecasting in Planned Production Orders Using a

Dual-Path Time Series Decomposition and Fusion Multi-Level

Ensemble Model

Sheng-Tzong Cheng, Chang-Ching Li, Ya-Jin Lyu Computer Science and Information Engineering, National Cheng Kung University, Tainan, Taiwan;

Department of Master Degree Program on Artificial Intelligence,

National Cheng Kung University, Tainan, Taiwan

04:20 - 04:40pm: Enhancing Smart Home Security: A Robust Voice Authentication

Framework Using K-Nearest Neighbors on IoT Devices Ajinkya Prabhu Jadhav, Sushanth S. Manakhari Department of Computer and Information Science,

Gannon University, Erie, PA, USA

SESSION 17-TUE (HIMS + BIOENG TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: HEALTH INFORMATICS + BIOMEDICAL ENGINEERING

Co-Chairs: TBA

July 23, 2024 (Tuesday); 04:40pm - 06:00pm

(LOCATION: Ballroom Galleria A)

04:40 - 05:00pm: Comparing Models for Sentiment Analysis of Tweets in Response

to Public Health Announcements during the Pandemic Kristina Kacmarova, Heather McPhail, Anita Kothari,

Lesley James, Lindsay Foisey, Lorie Donelle, Michael Bauer*
Department of Computer Science, University of Western Ontario,

London, Canada; School of Health Studies, University of

Western Ontario, London, Canada;

School of Health Studies, University of Waterloo, Ontario,

Waterloo, Canada;

College of Nursing, University of South Carolina, Columbia,

South Carolina, USA

05:00 - 05:20pm: Integrating HRV and Activity Data for ADHD Classification

Using Machine Learning Methodologies Yanqing Ji, Janet Zhang-Lea, John Tran

Department of Electrical & Computer Engineering, Gonzaga

University, Spokane, Washington, USA;

Department of Human Physiology, Gonzaga University,

Spokane, Washington, USA;

Department of Psychiatry and Behavioral Science,

University of California, San Francisco, California, USA

05:20 - 05:40pm: Challenges and Opportunities in a Big Data Pipeline for

Resilience and Wellness Development: A Case Study for

Police Training

Tina Cloutier, Carolyn McGregor, Judith Andersen Joint Research Centre in AI for Health and Wellness,

Ontario Tech University, Oshawa, ON, Canada; University of Technology Sydney, Australia;

Department of Psychology & Affiliated Temerty Faculty of Medicine, University of Toronto, Mississauga, ON, Canada

05:40 - 06:00pm: White Blood Cell Nuclei Detection and Segmentation on Ratio

Channels G/B, B/G, and B/R for FPGA Implementation Roberto C. Araujo-Parra, Aura M. Jimenez-Garduno, and

Jorge F. Martinez-Carballido

Electronics Department, INAOE, Santa Ma. Tonantzintla, Mexico; Health Sciences Department, UDLAP, San Andres Cholula, Mexico

06:00 - 06:20pm: FREE SLOT

ONLINE / ZOOM SESSIONS
ALL DATES AND TIMES ARE GIVEN IN USA PACIFIC TIME ZONE (PT).

SESSION 6-ZOOM: ---> ICAI + BIOCOMP + FECS + SAM TRACKS

SCOPE: ARTIFICIAL INTELLIGENCE + COMPUTATIONAL BIOLOGY +

EDUCATION + SECURITY

Chairs: TBA

July 23, 2024 (Tuesday); 08:00am - 10:20am

(ON-LINE / ZOOM)

08:00 - 08:20am: Smart Farming: Leveraging a Deep Learning Model for Plant

Leaf Classification

Shahd Alomani, Mai Almdahrsh, Shareefah Alessa,

Anas Bushnag*, Atif Oyouni

Department of Computer Science, University of Tabuk,

Tabuk, Saudi Arabia;

Department of Computer Engineering, University of Tabuk,

Tabuk, Saudi Arabia;

Department of Biology, Biodiversity Genomics Unit,

University of Tabuk, Tabuk, Saudi Arabia

08:20 - 08:40am: Lung and Colon Cancer Classification Based on a Hybrid Deep

Convolutional Neural Networks of Xception, VGG-16, and

VGG-19 using Histopathological Images Amal O. Hasan, Zakariya A. Oraibi

Department of Computer Science, College of Education for

Pure Sciences, University of Basrah, Basrah, Iraq

08:40 - 09:00am: Leveraging Chat-GPT to Generate Educational Assessment

Materials for Software Engineering

Vasiliy Seibert, Tobias Geger, Andreas Rausch

Clausthal University, Institute for Software and Systems

Engineering (ISSE), Clausthal-Zellerfeld, Germany

09:00 - 09:20am: Analysis and Improvement of MixColumn Operations in the

Advanced Encryption Standard Algorithm

Kwame Assa-Agyei*, Kayode Owa, Tawfik Al-Hadhrami

Department of Computer Science, Nottingham Trent University,

Nottingham, UK

09:20 - 09:40am: An Efficient Generation of Prime Numbers for RSA Encryption

Scheme

Kwame Assa-Agyei*, Kayode Owa, Tawfik Al-Hadhrami

Department of Computer Science,

Nottingham Trent University, Nottingham, UK

09:40 - 10:00am: Easy: Encryption-less Anonymity System

Adoum Youssouf, Daouda Ahmat*, Mahamat Borgou Virtual University of Chad, N.Djamena, Chad; University of N.Djamena, N.Djamena, Chad; ICT National School, N.Djamena, Chad

10:00 - 10:20am: Intelligent Methods for Android Malware Detection: A Survey

Marayi Choroma, Daouda Ahmat, Bakari Abbo University of N.Djamena, N.Djamena, Chad

SESSION 7-ZOOM: ---> ICOMP + MSV + FECS + ICAI TRACKS

SCOPE: INTERNET COMPUTING & IOT + MODELING, SIMULATION &

VISUALIZATION METHODS + EDUCATION +

ARTIFICIAL INTELLIGENCE

Chairs: TBA

July 23, 2024 (Tuesday); 10:20am - 12:20pm

(ON-LINE / ZOOM)

10:20 - 10:40am: Harnessing Social Robotics and the Internet Of Things to

Reduce the Risk of Older Adults Developing Hypothermia

and Dehydration

Hani Sindi*, Rachel McCrindle

Biomedical Engineering, University of Reading, Reading, UK

10:40 - 11:00am: Improving Critical Controls Using IoT and Computer Vision

Michael Kainola, Larbi Esmahi*, Ali Dewan School of Computing & Information Systems,

Athabasca University, Canada

11:00 - 11:20am: Federated Threat Detection within Intelligence Sharing

Organizations While Maintaining Privacy Genea Taylor*, David Johnson, Kaushik Roy

Department of Computer Science, North Carolina Agricultural

and Technical State University, Greensboro, NC, USA

11:20 - 11:40am: Data Clustering and Visualization with Recursive Max k-Cut

Algorithm

An Ly*, Raj Sawhney, Marina Chugunova

Institute of Mathematical Sciences, Claremont Graduate

University, Claremont, California, USA

11:40a - 12:00p: To Hack or Not to Hack? Connecting Cybersecurity, the IoT,

and Smart Environments to K12 Learning Experiences

Shusmoy Chowdhury, Debaleen Das Spandan, Tara Bonebrake*,

Zachary Frantsen, Ajay Katangur*

The Summit Preparatory School, Springfield, Missouri, USA; Marion C. Early High School, Springfield, Missouri, USA Department of Computer Science, Missouri State University,

Springfield, Missouri, USA;

12:00 - 12:20pm: Explainable Machine Learning based Intrusion Detection

Systems for IoT

Amun Jackson*, Maria Camila Gaitan-Cardenas, Kaushik Roy,

Bernard Aldrich, Janelle Mason

Department of Computer Science, North Carolina A&T State

University, Greensboro, North Carolina, USA

SESSION 8-ZOOM: ---> BIOENG + ICAI + ICDATA TRACKS

SCOPE: BIOMEDICAL ENGINEERING + MOBILE COMPUTING + ARTIFICIAL INTELLIGENCE AND APPLICATIONS

Chairs: TBA

July 23, 2024 (Tuesday); 12:20pm - 02:20pm

(ON-LINE / ZOOM)

12:20 - 12:40pm: Classifying Network Traffic using Images and Deep

Convolutional Neural Networks

Qaylin I. Holliman, R. E. Davis, Jr., Jinsheng Xu, Kaushik Roy

Computer Science Department, North Carolina A&T State

University, Greensboro, North Carolina, USA

12:40 - 01:00pm: MobiVitalsConnect: A Comprehensive Mobile Healthcare System

for Real-Time Patient Monitoring and Data Visualization

Sasipriya Arun, Edward R. Sykes*, Syed Tanbeer Centre for Applied AI, Sheridan College, Oakville,

Ontario, Canada

01:00 - 01:20pm: Explainable Machine Learning Approach for Intelligent Edits

of Medicaid Home Healthcare Services Claims

Ephina Thendral Surendranath

Conduent Inc., USA

01:20 - 01:40pm: Dual-Approach Interpretations of Bailout Strategies in the

Eisenberg-Noe Model Jiashan Wu*, Zhiqian Chen Mississippi State University, USA

01:40 - 02:00pm: Enhancing Cultural Algorithm Guided Policy Gradient with

Parameter Exploration through Topographic Knowledge and

Adaptive Weighting

Mark Nuppnua, Khalid Kattan, Robert G. Reynolds*
Computer Science, College of Engineering, Wayne State

University, Detroit, Michigan, USA;

Computer Science, College of Engineering, University of

Michigan-Dearborn, Dearborn, Michigan, USA;

Museum of Anthropological Archaeology, University of

Michigan-Ann Arbor, Ann Arbor, Michigan, USA

02:00 - 02:20pm: Assessing the Impact of Homelessness on COVID-19

Hospitalization Rates in Patients with Underlying Medical

Conditions through Explainable AI

J. M. Imtinan Uddin*, Yingfeng Wang, Hong Qin, Hayden Hall,

Jessica Long, Connor Kimbrell, Isabel Obrien,

Sudave Mendiratta, Patrick Koo

University of Tennessee at Chattanooga, Tennessee, USA

SESSION 9-ZOOM: FCS + PDPTA + GCC + ICAI TRACKS

SCOPE: PARALLEL & DISTRIBUTED PROCESSING TECHNIQUES & APPLICATIONS + ALGORITHMS + CLOUD, & CLUSTER

COMPUTING + ARTIFICIAL INTELLIGENCE

Chairs: TBA

July 23, 2024 (Tuesday); 02:20pm - 04:00pm

(ON-LINE / ZOOM)

02:20 - 02:40pm: Searching Real Numbers in Constant Time

Sreelatha Deebaguntla, Yijie Han

School of Science and Engineering, University of Missouri

at Kansas City, Kansas City, Missouri, USA

02:40 - 03:00pm: Towards Automatic, Predictable and High-Performance Parallel

Code Generation

Lenore Mullin, Gaetan Hains*

University of Albany, Albany, New York, USA; LACL, Universite Paris-Est, Creteil, France

03:00 - 03:20pm: Scientific Workflow Provenance Management: System

Requirements and a Reference Architecture

Andre Kashliev

Department of Computer Science, Eastern Michigan University,

Ypsilanti, Michigan, USA

03:20 - 03:40pm: Enhancing Differential Evolution for Neural Network

Optimization through Boundary Individual Consideration

Mandar Angchekar*, Chilukuri K. Mohan Department of EECS, Syracuse University,

Syracuse, New York, USA

03:40 - 04:00pm: Utilizing Federated Learning and SHAP for Predictive Analysis

in Smart Grid Security

Sushmitha Halli Sudhakara, Lida Haghnegahdar,

Mohammad Ghasemigol, Daniel Takabi

Department of Computer Science, Old Dominion University,

Virginia, USA;

School of Cybersecurity, Old Dominion University, Virginia, USA

SESSION 10-ZOOM: FECS + SERP + ICWN TRACKS

SCOPE: EDUCATION + SOFTWARE ENGINEERING + WIRELESS NETWORKS

Chairs: TBA

July 23, 2024 (Tuesday); 04:00pm - 06:20pm

(ON-LINE / ZOOM)

04:00 - 04:20pm: Assessing ABET Outcomes Through a Software Engineering

Capstone Course Tauqeer Hussain

Department of Computer Science and Information Technology,

Kutztown University of Pennsylvania, Kutztown, Pennsylvania, USA

04:20 - 04:40pm: Traffic Analysis of Online Video Games

Shengli Yuan*, Joel Trevizo

Department of Computer Science and Engineering Technology, University of Houston - Downtown, Houston, Texas, USA

04:40 - 05:00pm: Curriculum for a New Academic Program with Bachelor's Degrees

in Intelligent Systems Engineering and Computer Engineering

Ashu M. G. Solo

Maverick Trailblazers Inc., Wilmington, Delaware, USA

05:00 - 05:20pm: Tertiary Mathematics Students in Different Learning

Environments for the Same Subject: Perceptions

and Achievement

Mary Ruth Freislich*, Alan Bowen-James

School of Mathematics and Statistics, University of

New South Wales, Sydney, Australia;

Crown Institute of Higher Education, Sydney, Australia

05:20 - 05:40pm: VENUS: Designing a Validation Engine for User Stories

James Anthony Sammut*, Xin Xiang, Yue Song, Yuchen Cao,

and Leon Sterling

School of CIS, The University of Melbourne, Melbourne, Australia; Buildkite, Australia

05:40 - 06:00pm: Optimizing Fuzzy Comprehensive Evaluation of Teaching Quality

Using Elastic Proximity

Jianjun Wang*, Xiaohua Zhao, Zichun Wang, Fred Wu

School of Electronic and information,

Hunan First Normal University, Changsha, China;

Faculty of Education, Tianjin Normal University, China;

Department of Mathematics and Computer Science,

West Virginia State University, Institute, West Virginia, USA

06:00 - 06:20pm: Wireless Sensor Networks Using Biorobotic Sensors:

Frameworks and Applications

Deok Hee Nam

Engineering and Computer Science, Wilberforce University,

Wilberforce, Ohio, USA

<------ LOCATION: Ballroom Galleria D -----> SESSION 18-WED (HIMS + ICDATA + ICAI TRACKS): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: ARTIFICIAL INTELLIGENCE + HEALTH INFORMATICS + DATA SCIENCE Co-Chairs: TBA July 24, 2024 (Wednesday); 08:20am - 10:00am (LOCATION: Ballroom Galleria D) 08:20 - 08:40am: Explainable Machine Learning-Based Alzheimer's Disease Prediction Paulina Gonzalez O., Gideon K. Gogovi College of Health, Lehigh University, Bethlehem, PA, USA 08:40 - 09:00am: An Application of Convolutional Neural Networks to Chaotic Systems Jamal Rorie, Dean Lee, Andrew Sabater, Josh Duclos Naval Information Warfare Center Pacific (NIWC), San Diego, California, USA 09:00 - 09:20am: Integrating Retrieval-Augmented Generation with Large Language Models for Supply Chain and Finance Optimization Beilei Zhu*, Chandrasekar Vuppalapati Global Supply Chain, Intel Corp., Hillsboro, Oregon, USA; Computer Engineering, San Jose State University, San Jose, California, USA 09:20 - 09:40am: An ISR Asset Planning Application Wilmuth Muller*, Frank Reinert, Uwe Pfirrmann Interoperability and Assistance Systems, Fraunhofer IOSB, Karlsruhe, Germany 09:40 - 10:00am: Fraud Detection Using Machine Learning Models and Encryption Techniques Jigyasa Agrawal, Hien Nguyen* Computer Science & Math Program, Penn State Harrisburg, Middletown, PA, USA 10:00 - 10:20am: BREAK (Refreshments) July 24, 2024 (Wednesday) (LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 19-WED (ACC + ICAI TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: APPLIED COGNITIVE COMPUTING + ARTIFICIAL INTELLIGENCE

Co-Chairs: TBA

July 24, 2024 (Wednesday); 10:20am - 12:20pm

(LOCATION: Ballroom Galleria D)

10:20 - 10:40am: In-vehicle Sensing Platform for the Inference of Older

Drivers' Mild Cognitive Condition

Sonia Moshfeghi, Jinwoo Jang, Muhammad Tanveer Jan, Seyedeh Gol Ara Ghoreishi, Borko Furht, Kwangsoo Yang, Ruth Tappen, David Newman, Joshua Conniff, Monica Rosselli College of Engineering and Computer Science, Florida

Atlantic University, Boca Raton, Florida, USA;

Christine E. Lynn College of Nursing, Florida Atlantic

University, Boca Raton, Florida, USA;

Charles E. Schmidt College of Science, Florida Atlantic

University, Boca Raton, Florida, USA

10:40 - 11:00am: Compararitive Analysis of AI-Powered Image Recognition for

Dermatological Diagnosis

Ali Al-Sinayyid, Alexander Sanchez, Timothy Sanford II, Kadiyala Sasidhar, Venkatesh Mannuru, Rohith Reddy Battula Department of Mathematics and Computer Science, West Virginia

State University, Institute, West Virginia, USA

11:00 - 11:20am: Multimodal Insights: ImageBind Embedding Space Analysis in

Auto Parts Online Marketplace Data Exploration

Andrew Hamara, Pablo Rivas

School of Engineering and Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA

11:20 - 11:40am: Explainable AI for SQL Grading: A Practical Approach with

Multi-Task CNNs

Pablo Rivas, Donald Schwartz*

School of Engineering and Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA; School of Computer Science and Mathematics, Department of

Computing Technology, Marist College, Poughkeepsie, New York, USA

11:40a - 12:00p: Leveraging Openflamingo for Multimodal Embedding Analysis of

C2C Car Parts Data

Maisha Binte Rashid, Pablo Rivas*

School of Engineering and Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA

12:00 - 12:20pm: Subject Matter Expert versus ChatGPT

Charles E. Knadler, Jr.

Independent Researcher: Mathematical Biology and Numerical

Computing, USA

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

SESSION 20-WED (SERP + ICWN + FECS TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SOFTWARE ENGINEERING + WIRELESS NETWORKS +

FRONTIERS IN EDUCATION: CS & CE

Co-Chairs: TBA

July 24, 2024 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom Galleria D)

01:20 - 01:40pm: Machine Learning Operations: A Mapping Study

Abhijit Chakraborty, Suddhasvatta Das, Kevin Gary School of Computing and Augmented Intelligence,

Arizona State University, Arizona, USA

01:40 - 02:00pm: ES4AL: A Website for Effectiveness Study for Algorithm

Learning in Computer Science Willow Justin*, Gilbert Young

Department of Computer Science, California State Polytechnic

University, Pomona, California, USA

02:00 - 02:20pm: Minimum Dominating Set and Minimum Connected Dominating Set

Construction in Wireless Sensor Networks under the

Sleeping Model

Tan Lam*, Dung Huynh

University of Texas at Dallas, Texas, USA

02:20 - 02:40pm: ECAF: Educational Cybersecurity Assessment Framework for

Small Businesses Ethan Zhang

Youth Cyber Defender, Portland, Oregon, USA

02:40 - 03:00pm: Digital Badging as a Motivator in an Undergraduate Course

Gina Cooper, Victoria Kim, Paula C. Herring, and

Parvaneh Kazemi-Tabrizi

Engineering Information Systems, DeVry University, Columbus,

Ohio, USA;

Math and Learning Technology, DeVry University, San Jose, California, USA; Business, DeVry University, San Diego, California, USA; Business, DeVry University, Phoenix,

Arizona, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTERS

July 24, 2024 (Wednesday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

- O. Off-line CNN based Finger Number Gesture Recognition System using Raspberry pi Gerelbat Batgerel, Chunki Kwon* Department of Medical IT Engineering, Soonchunhyang university, Asan-si, South Korea
- O. High Level Design of Photorealistic VTON System based on Generative A.I. Technologies Sang-Heon Lee*, Myoung-Kyu Sohn, Hyunduk Kim, Junkwang Kim Division of Automotive Technology, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Daegu, Republic of Korea
- O. Train AI Architects Skills Integrating the Talent of People and Machines to go Further in Applying JIDOKA and YOKOTEN in Operations
 J. Costas, R. Pastor, C. Garcia, R. Pino Escuela Politecnica de Ingenieria de Gijon, Campus de Viesques s/n, Gijon (Asturias), Spain
- O. LLM-Powered OLAP: Tackling High level Business Questions Ainesh Panda, Fatemeh Sarayloo, Pragya Arora, Nithin Gowda, Chun Hung Lin, Ayushi Gaur University of Illinois at Chicago, USA
- O. Soft Actor Critic based End-to-End QoS Path Selection in Multi-Domain SDN Environments
 Gyumin Lee, Junghyun Lim, Byeong-hee Roh*
 AI Development Team, Webzen Inc., Seongnam, South Korea;
 Department of AI Convergence Network, Ajou University,
 Suwon, South Korea
- O. Analyzing the Influence of File Formats on I/O Patterns in Deep Learning Betzabeth Leon, Edixon Parraga, Sandra Mendez, Dolores Rexachs, Remo Suppi, Emilio Luque Computer Architecture and Operating Systems Department, Universitat Autonoma de Barcelona (UAB), Bellaterra, Barcelona, Spain; Computer Sciences Department, Barcelona Supercomputing Center (BSC), Barcelona, Spain
- O. Automating Automation: Using LLMs to Generate BPMN Workflows for Robotic Process Automation Carlos Toxtli, Wangfan Li Clemson University, South Carolina, USA

SESSION 21-WED (SAM TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SECURITY AND MANAGEMENT

Co-Chairs: TBA

July 24, 2024 (Wednesday); 03:40pm - 05:00pm

(LOCATION: Ballroom Galleria D)

03:40 - 04:00pm: Green Cybersecurity: An Evaluation of Antivirus Energy

Consumption and Implications for Sustainable Software

Engineering Dwight Horne

Department of Computer Science, Baylor University, Waco,

Texas, USA

04:00 - 04:20pm: Regarding the Exponential Growth of Security Vulnerabilities

Joline Wochnik, Olivia Sina Grauupner, Michael Spranger,

and Christian Hummert

Agentur fur Innovation in der Cybersicherheit GmbH,

Halle (Saale), Germany;

Hochschule Mittweida, University of Applied Sciences,

Mittweida, Germany

04:20 - 04:40pm: Russian Cyber Disinformation Campaigns and Possible

Countermeasures

LT Michael R. Williams, Neil C. Rowe*

U.S. Naval Postgraduate School Monterey, California, USA

04:40 - 05:00pm: Determining the Secret Key in Hotel Card Lock Key Communication

Cheryl Hinds*, Jonathan Graham, Thalia Guadalupe

Department of Computer Science,

Norfolk State University, Norfolk, Virginia, USA

SESSION 22-WED (EEE + ICAI TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: E-LEARNING, E-BUSINESS, EIS & E-GOVERNMENT +

ARTIFICIAL INTELLIGENCE

Co-Chairs: TBA

July 24, 2024 (Wednesday); 05:00pm - 06:00pm

(LOCATION: Ballroom Galleria D)

05:00 - 05:20pm: Improving Student Success in Math Courses Using WeBWorK

Dhruba R. Adhikari, Larry Wang*

Department of Mathematics, Kennesaw State University,

Marietta, Georgia, USA

05:20 - 05:40pm: Use of Emerging Technologies in Africa

Matthew N. O. Sadiku*, Janet O. Sadiku, Uwakwe C. Chukwu

Department of Electrical & Computer Engineering,

Prairie View A & M University, Prairie View, Texas, USA;

Juliana King University, Houston, Texas, USA;

Department of Engineering Technology, South Carolina State

University, Orangeburg, South Carolina, USA

05:40 - 06:00pm: Artificial Intelligence in Africa

Matthew N. O. Sadiku*, Janet O. Sadiku, Uwakwe C. Chukwu

Department of Electrical & Computer Engineering,

Prairie View A & M University, Prairie View, Texas, USA;

Juliana King University, Houston, Texas, USA;

Department of Engineering Technology, South Carolina State

University, Orangeburg, South Carolina, USA

06:00 - 06:20pm: FREE SLOT

<----> LOCATION: Ballroom Galleria E -----> SESSION 23-WED (FECS TRACKS): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: FRONTIERS IN EDUCATION: CS & CE Co-Chairs: TBA July 24, 2024 (Wednesday); 08:20am - 10:20am (LOCATION: Ballroom Galleria E) 08:20 - 08:40am: Assessing ChatGPT for Algorithm Time Complexity Education Dorde Pesic, Milena Vujosevic Janicic, Marko Misic, and Jelica Protic School of Electrical Engineering, University of Belgrade, Serbia; Faculty of Mathematics, University of Belgrade, Serbia 08:40 - 09:00am: Developing a Machine Learning Model to Identify At-Risk Students Azucena L. Jimenez Martinez, Kanika Sood, Rakeshkumar Mahto Department of Computer Science, California State University, Fullerton, California, USA; Department of Electrical and Computer Engineering, California State University, Fullerton, California, USA 09:00 - 09:20am: OBDev: Wireless on Board Development Environment for Raspberry Pi Pico W Byron A. Jeff*, Muhammad Rahman Department of Computer Science and Information Technology, Clayton State University, Morrow, Georgia, USA 09:20 - 09:40am: Using Logical Fallacies to Educate Computer Science Students Peter M. Maurer Department of Computer Science, Baylor University, Texas, USA 09:40 - 10:00am: An Edge AI Course Template Ning Chen Department of Computer Science, California State University, Fullerton, California, USA 10:00 - 10:20am: INDRA: A Drone Penetration Testing Platform for Cybersecurity Education Thomas Devine, Dylan Cunningham, Thomas Hasselman, Anthony Hudson, Alexander Roland, Justin Scott, Grant Thompson, Logan Yokum, Peter Zekonis West Virginia University, Morgantown, West Virginia, USA 10:20 - 10:40am: BREAK (Refreshments) July 24, 2024 (Wednesday) (LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 24-WED (ICWN + ESCS TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: WIRELESS NETWORKS + EMBEDDED SYSTEMS, CYBER-PHYSICAL SYSTEMS, & APPLICATIONS

Co-Chairs: TBA

July 24, 2024 (Wednesday); 10:40am - 12:20pm

(LOCATION: Ballroom Galleria E)

10:40 - 11:00am: SVM Enhanced Detection of Volume-Based Attacks in IoT Networks

Ali Al-Sinayyid, Kadiyala Sasidhar, Venkatesh Mannuru, Rohith Reddy Battula, Timothy Sanford Ii, Alexander Sanchez

Department of Mathematics and Computer Science,

West Virginia State University, Institute, West Virginia, USA

11:00 - 11:20am: Wireless Multihop Transmissions with Concurrent Forwarding

without Collisions by Capture Effect Shintaro Okazaki, Hiroaki Higaki* Department of Robotics and Mechatronics, Tokyo Denki University, Tokyo, Japan

11:20 - 11:40am: Utilizing Logistic Regression to Detect Tautology Based SQL

Injection Attacks

Ali Al-Sinayyid, Venkatesh Mannuru, Kadiyala Sasidhar, Rohith Reddy Battula, Timothy Sanford Ii, Alexander Sanchez

Department of Mathematics and Computer Science,

West Virginia State University, Institute, West Virginia, USA

11:40a - 12:00p: Container Performance in Space Systems

Shar M. Alamgir*, Dhruv L. Bohra, Elisabeth A. Nguyen

Embedded and Specialized Computing Department, The Aerospace

Corporation, El Segundo, California, USA;

Embedded and Specialized Computing Department, The Aerospace

Corporation, Chantilly, Virginia, USA;

Software Architecture & Engineering Department, The Aerospace

Corporation, Chantilly, Virginia, USA

12:00 - 12:20pm: Analytical Study on Advanced Persistent Threat Detecting,

Defending and Mitigating

Ali Al-Sinayyid*, Rohith Reddy Battula, Kadiyala Sasidhar, Venkatesh Mannuru, Timothy Sanford Ii, Alexander Sanchez

Department of Mathematics and Computer Science,

West Virginia State University, Institute, West Virginia, USA

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

SESSION 25-WED (ICDATA TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: DATA SCIENCE & APPLICATIONS

Co-Chairs: TBA

July 24, 2024 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom Galleria E)

01:20 - 01:40pm: User Behavior based Implicit Personality Detection in

Recommendation Systems

Uzma Zubair Shaikh*, Robert Chun Department of Computer Science,

San Jose State University, San Jose, California, USA

01:40 - 02:00pm: Transforming Hurricane Intensity Prediction: Leveraging

Transformers for Enhanced Forecasting Accuracy

Rose Atuah*, Michael McGuire, Khalil Ibrahim Almakrami,

and Qianlong Wang Towson University, USA

02:00 - 02:20pm: Subgraph2vec: A Random Walk-Based Algorithm for Embedding

Knowledge Graphs

Elika Bozorgi*, Saber Soleimani, Sakher Khalil Alqaiidi,

Hamid Reza Arabnia, Krzysztof Kochut

School of Computing, University of Georgia, Georgia, USA

02:20 - 02:40pm: Predictive Analysis of Defense Language Proficiency Test

Outcomes: A Comparative Study Using Neural Networks and

Logistic Regression

Jared Smith, Eric Mbonimpa*, Torrey Wagner, Brent Langhals Graduate School of Engineering and Management, Air Force Institute of Technology, Wright-Patterson AFB, Ohio, USA

02:40 - 03:00pm: Trust as a Classification Tool: Analyzing Collaboration in

Senate Floor Speeches on Gun Legislation Post-Uvalde and

Sandy Hook

William Ledbetter

Department of Computer and Information Technology, Purdue University, West Lafayette, Indiana, USA

03:00 - 03:40pm: BREAK (Refreshments) & POSTERS

July 24, 2024 (Wednesday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

- O. Off-line CNN based Finger Number Gesture Recognition System using Raspberry pi Gerelbat Batgerel, Chunki Kwon* Department of Medical IT Engineering, Soonchunhyang university, Asan-si, South Korea
- O. High Level Design of Photorealistic VTON System based on Generative A.I. Technologies Sang-Heon Lee*, Myoung-Kyu Sohn, Hyunduk Kim, Junkwang Kim Division of Automotive Technology, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Daegu, Republic of Korea
- O. Train AI Architects Skills Integrating the Talent of People and Machines to go Further in Applying JIDOKA and YOKOTEN in Operations
 J. Costas, R. Pastor, C. Garcia, R. Pino Escuela Politecnica de Ingenieria de Gijon, Campus de Viesques s/n, Gijon (Asturias), Spain
- O. LLM-Powered OLAP: Tackling High level Business Questions Ainesh Panda, Fatemeh Sarayloo, Pragya Arora, Nithin Gowda, Chun Hung Lin, Ayushi Gaur University of Illinois at Chicago, USA
- O. Soft Actor Critic based End-to-End QoS Path Selection in Multi-Domain SDN Environments
 Gyumin Lee, Junghyun Lim, Byeong-hee Roh*
 AI Development Team, Webzen Inc., Seongnam, South Korea;
 Department of AI Convergence Network, Ajou University,
 Suwon, South Korea
- O. Analyzing the Influence of File Formats on I/O Patterns in Deep Learning Betzabeth Leon, Edixon Parraga, Sandra Mendez, Dolores Rexachs, Remo Suppi, Emilio Luque Computer Architecture and Operating Systems Department, Universitat Autonoma de Barcelona (UAB), Bellaterra, Barcelona, Spain; Computer Sciences Department, Barcelona Supercomputing Center (BSC), Barcelona, Spain
- O. Automating Automation: Using LLMs to Generate BPMN Workflows for Robotic Process Automation Carlos Toxtli, Wangfan Li Clemson University, South Carolina, USA

SESSION 26-WED (IPCV TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: IMAGE PROCESSING, COMPUTER VISION, &

PATTERN RECOGNITION

Co-Chairs: TBA

July 24, 2024 (Wednesday); 03:40pm - 04:00pm

(LOCATION: Ballroom Galleria E)

03:40 - 04:00pm: Dishari: A Novel Gesture-Based Educational Application for

Specially Challenged People

Tathagata Bhattacharya, Irshad Ali Mohammad Auburn University at Montgomery, Alabama, USA

04:00 - 04:20pm: Image-Based Leopard Seal Recognition: Approaches and

Challenges in Current Automated Systems

Jorge Yero Salazar, Pablo Rivas, Renato Borras-Chavez, and

Sarah Kienle

School of Engineering & Computer Science, Department of Computer Science, Baylor University, Waco, Texas, USA; College of Arts & Sciences, Department of Biology,

Baylor University, Waco, Texas, USA

SESSION 27-WED (PDPTA TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: PARALLEL & DISTRIBUTED PROCESSING TECHNIQUES &

APPLICATIONS + HPC

Co-Chairs: TBA

July 24, 2024 (Wednesday); 04:20pm - 05:40pm

(LOCATION: Ballroom Galleria E)

04:20 - 04:40pm: A Methodical Approach to Parallel I/O Analysis in Distributed

Deep Learning Applications

Edixon Parraga*, Betzabeth Leon, Sandra Mendez,

Dolores Rexachs, Remo Suppi, Emilio Luque

Computer Architecture and Operating Systems Department,

Universitat Autonoma de Barcelona (UAB), Spain;

Computer Sciences Department, Barcelona Supercomputing

Center (BSC), Barcelona, Spain

04:40 - 05:00pm: Explore Effective Attack Graph Generation on HPC Clusters

Ming Li

Tandy School of Computer Science, The University of Tulsa,

Tulsa, Oklahoma, USA

05:00 - 05:20pm: An Efficient Data Provenance Collection Framework for HPC

I/O Workloads

Md Kamal Hossain Chowdhury*, Purushotham V. Bangalore Department of Computer Science, College of Engineering,

University of Alabama, Tuscaloosa, Alabama, USA

05:20 - 05:40pm: A Comparative Study of Two Matrix Multiplication Algorithms

Under Current Hardware Architectures Samuel Olatunde*, Eduardo Colmenares

Department of Computer Science, Midwestern State University,

Wichita Falls, Texas, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 06:20pm: FREE SLOT

ONLINE / ZOOM SESSIONS ALL DATES AND TIMES ARE GIVEN IN USA PACIFIC TIME ZONE (PT).

08:00 - 08:20am: FREE SLOT 08:20 - 08:40am: FREE SLOT 08:40 - 09:00am: FREE SLOT 09:00 - 09:20am: FREE SLOT FREE SLOT 09:20 - 09:40am: 09:40 - 10:00am: FREE SLOT 10:00 - 10:20am: FREE SLOT 10:20 - 10:40am: FREE SLOT 10:40 - 11:00am: FREE SLOT 11:00 - 11:20am: FREE SLOT 11:20 - 11:40am: FREE SLOT 11:40a - 12:00p: FREE SLOT

SESSION 11-ZOOM: ICEQT + ICAI TRACKS

SCOPE: EMERGENT QUANTUM TECHNOLOGIES +

ARTIFICIAL INTELLIGENCE

Chairs: TBA

July 24, 2024 (Wednesday); 12:00pm - 01:20pm

(ON-LINE / ZOOM)

12:00 - 12:20pm: Evaluating Cost-Effective Reconfigurable Hardware for

Quantum Simulation

Ishraq Islam, Vinayak Jha, Alvir Nobel, David Levy,

Manu Chaudhary, Dylan Kneidel, Esam El-Araby

University of Kansas, USA

12:20 - 12:40pm: An Efficient Quantum Solver for Multidimensional Partial

Differential Equations

Manu Chaudhary, Ishraq Islam, David Levy, Alvir Nobel,

Dylan Kneidel, Vinayak Jha, Esam El-Araby

University of Kansas, USA

12:40 - 01:00pm: Optimizing Depth of Quantum Circuits for Generating GHZ States

Nishitha Reddy venkannagari, Varun teja Puram, Johnson Thomas

Oklahoma State University, Oklahoma, USA;

Northeastern State University, USA

01:00 - 01:20pm: Exploring Data Augmentation and Stochastic Weight Averaging

as an Alternative to Adversarial Training of Deep

Neural Networks

Anabetsy Termini*, Sumitra Mukherjee College of Computing and Engineering, Nova Southeastern University, Florida, USA

SESSION 12-ZOOM: FECS + SERP + SAM TRACKS SCOPE: EDUCATION + SOFTWARE ENGINEERING + SECURITY MANAGEMENT Chairs: TBA July 24, 2024 (Wednesday); 01:20pm - 03:20pm (ON-LINE / ZOOM) Adapting to the AI Disruption: Reshaping the IT Landscape 01:20 - 01:40pm: and Educational Paradigms Murat Ozer*, Hazem Said

School of Information Technology, University of Cincinnati, Cincinnati, Ohio, USA

01:40 - 02:00pm: A Framework for Requirements Modeling of Safety Critical Systems: A Continuous Glucose Monitoring System Case Study Aiman Gannous, Ramadan Abdunabi, Abdulfatah Elbarsha Department of Health Informatics, University of Benghazi, Benghazi, Libya; Computer Information Systems Department, Colorado State

University, Fort Collins, Colorado, USA

Detection of Network Anomalies Using Unsupervised and 02:00 - 02:20pm: Reinforcement Learning Models Willie L. Waters*, Mohamed Chouikha, Annamalai Annamalai Department of Electrical Engineering, A&M University College of Engineering, Prairie View A&M University, Texas, USA

02:20 - 02:40pm: Detecting Sybil Attacks in Decentralized Marketplaces Meshari Aljohani, Ravi Mukkamala*, Stephan Olariu, and Mohan Sunkara Department of Computer Science, Old Dominion University, Norfolk, Virginia, USA

02:40 - 03:00pm: Analysis of Zero Day Attack Detection Using MLP and XAI Ashim Dahal, Prabin Bajgai, Nick Rahimi School of Computing Sciences & Computer Engineering, University of Southern Mississippi, Hattiesburg,

Mississippi, USA

03:00 - 03:20pm: Unmasking ZetaXE: A Tool to Successfully Implement Social Engineering Attacks Daryan J. Karimzadeh, Tamirat T. Abegaz, Bryson R. Payne

Department of Computer Science and Information Systems, University of North Georgia, Dahlonega, Georgia, USA

03:20 - 03:40pm: FREE SLOT 03:40 - 04:00pm: FREE SLOT

<-----> LOCATION: Ballroom Galleria D -----> SESSION 28-THU (ICDATA TRACK): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, AND PERSPECTIVES Co-Chairs: Dr. Mahmoud Abou-Nasr Adjunct Faculty: Computer & Information Systems Department, University of Michigan Dearborn, USA July 25, 2024 (Thursday); 08:40am - 10:20am (LOCATION: Ballroom Galleria D) 08:20 - 08:40am: FREE SLOT 08:40 - 09:00am: Harnessing LLMs to Build an Autonomous Marketing Agent Abithaa Shree Venkatesh, Ann Mathew, Monika Madugula, Nagraj Deshmukh, Pratik Mahesh Merchant, Matthew Lanham Purdue University, USA 09:00 - 09:20am: SSSDAD: Structured State Space Diffusion Anomaly Detection in Industrial Time Series Data Manuel Hirth*, Daniel Meier, Nasser Jazdi, Johann-Friedrich Luy, Enkelejda Kasneci Technical University of Munich, Germany; Daimler Truck, Germany 09:20 - 09:40am: Government Contracts in Pandemic Era: A Comprehensive Impact Analysis Using Predictive Analytics Fatemeh Sarayloo, Nabila Fakhruddin, Sunaina Tarimela, Vojtech Mensik, Aarsh Vyas, Jahnavi Gulabani University of Illinois at Chicago, USA 09:40 - 10:00am: AuthAttLyzer-V2: Unveiling Code Authorship Attribution using Enhanced Ensemble Learning Models and Generating Benchmark Dataset Arash Habibi Lashkari*, Sepideh Hajihosseinkhani York University, Canada 10:00 - 10:20am: NLP-Guided Synthesis: Transitioning from Sequential Programs to Distributed Programs Arun Sanjel, Greg Speegle, Bikram Khanal, Pablo Rivas Baylor University, Waco, Texas, USA 10:20 - 10:40am: BREAK (Refreshments) July 25, 2024 (Thursday) (LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 29-THU (ICAI TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: ARTIFICIAL INTELLIGENCE & APPLICATIONS

Co-Chairs: TBA

July 25, 2024 (Thursday); 10:40am - 12:20pm

(LOCATION: Ballroom Galleria D)

10:40 - 11:00am: Harnessing Pre-Trained Language Models for Efficient Move

> Recognition in Biomedical Abstracts Gaurav Patil*, Robert E. Mercer

Department of Computer Science, University of

Western Ontario, London, ON, Canada

11:00 - 11:20am: Automatic Modulation Recognition: A Hybrid Approach using

Deep Learning and K-Means Clustering

Connor Cavarretta, Mihair Hijar-Soria, Nahiyan Hussain,

and Ruting Jia

California State University Northridge, California, USA

11:20 - 11:40am: Pruning and Optimizing Large Language Models in an Era of

GPU Scarcity

Ashhadul Islam*, Samir Brahim Belhaouari, Amine Bermak

College Of Science & Engineering,

Hamad Bin KHalifa University, Doha, Qatar

11:40a - 12:00p: Detecting Hallucinations in Large Language Model Generation:

A Token Probability Approach

Ernesto Quevedo, Jorge Yero Salazar, Rachel Koerner,

Pablo Rivas, Tomas Cerny

Department of Computer Science, School of Engineering & Computer Science, Baylor University, Waco, Texas, USA; Department of Systems & Industrial Engineering, College of Engineering, The University of Arizona, Arizona, USA

12:00 - 12:20pm: Taming Large Language Models for Healthcare - A Multi-Layered

Guardrail System

Bharath Sudharsan*, Ryan Kosiba AmalgamRx, Wilmington, Delaware, USA

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

SESSION 30-THU (ICEQT + ICAI TRACKS):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: EMERGENT QUANTUM TECHNOLOGIES + ARTIFICIAL INTELLIGENCE

Co-Chairs: TBA

July 25, 2024 (Thursday); 01:20pm - 03:00pm

(LOCATION: Ballroom Galleria D)

01:20 - 01:40pm: Leveraging JSBSim and Gymnasium: A Reinforcement Learning

Approach for Air Combat Simulation

Abderahim Salhi*, Joseph E. Jabour, Thomas L. Arnold,

James E. Ross, Haley R. Dozier

United States Army Corps of Engineers, Vicksburg,

Mississippi, USA

01:40 - 02:00pm: A Comparative Analysis of Hybrid-Quantum Classical Neural

Networks

Kamila Zaman, Tasnim Ahmed, Muhammad Abdullah Hanif,

Alberto Marchisio*, Muhammad Shafique

New York University Abu Dhabi, United Arab Emirates (UAE)

02:00 - 02:20pm: Eclipse Qrisp QAOA: Description and Preliminary Comparison

with Qiskit Counterparts

Eneko Osaba, Matic Petric, Izaskun Oregi, Raphael Seidel,

Alejandra Ruiz, Michail-Alexandros Kourtis

Tecnalia, Spain;

Fraunhofer Institute for Open Communication Systems (FOKUS),

Germany;

National Centre for Scientific Research Demokritos, Greece

02:20 - 02:40pm: Studying the Impact of Quantum-Specific Hyperparameters on

Hybrid Quantum-Classical Neural Networks

Kamila Zaman, Tasnim Ahmed, Muhammad Kashif, Muhammad Abdullah,

Alberto Marchisio*, Muhammad Shafique

New York University Abu Dhabi, United Arab Emirates (UAE)

02:40 - 03:00pm: NRQNN: The Role of Observable Selection in Noise-Resilient

Quantum Neural Networks

Muhammad Kashif*, Muhammad Shafique

New York University Abu Dhabi, United Arab Emirates (UAE)

03:00 - 03:20pm: BREAK (Refreshments)

July 25, 2024 (Thursday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

----> ROOM CHANGE - to Ballroom Galleria E

03:20 - 03:40pm: CONGRESS CLOSING REMARKS

(LOCATION: Ballroom Galleria E)

<-----> LOCATION: Ballroom Galleria E -----> SESSION 31-THU (HIMS + IKE TRACKS): (CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS) SCOPE: HEALTH INFORMATICS & MEDICAL SYSTEMS + INFORMATION & KNOWLEDGE ENGINEERING Co-Chairs: TBA July 25, 2024 (Thursday); 08:40am - 10:00am (LOCATION: Ballroom Galleria E) 08:20 - 08:40am: FREE SLOT Evaluating Vaccine Effectiveness During the COVID-19 Pandemic: 08:40 - 09:00am: Insights from Advanced Statistical and Machine Learning Methods Dominic Etli Occupational Medicine, Mission Support and Test Services, Las Vegas, Nevada, USA 09:00 - 09:20am: Advancing Health Literacy through Generative AI: The Utilization of Open-source LLMs for Text Simplification and Readability Guy Hembroff, Sifat Naseem Michigan Technological University, Michigan, USA 09:20 - 09:40am: Using Linkage Context for Automated Correction in Unsupervised Entity Resolution Fumiko Kobayashi*, John R. Talburt Donaghey College of Science, Technology, Engineering, and Mathematics, The University of Arkansas at Little Rock, Arkansas, USA 09:40 - 10:00am: The Application of Blockchain Technology in the Transmission of Semiconductor Process Recipes Iuon-Chang Lin, Mao-Hsiu Hsu*, Hung-Kai Wan National Chung Hsing University, Taichung Taiwan; Department of Electro-Optical Engineering, National Formosa University, Yunlin, Taiwan 10:00 - 10:20am: BREAK (Refreshments) July 25, 2024 (Thursday) (LOCATION: Galleria B & C; Registration Counter/Desk)

SESSION 32-THU (CSC TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SCIENTIFIC COMPUTING

Co-Chairs: TBA

July 25, 2024 (Thursday); 10:20am - 11:00am

(LOCATION: Ballroom Galleria E)

10:20 - 10:40am: Multi-class Classification of Satellite Orbits for Database

Quality Control

Richard Peterson, Torrey Wagner, Paul Auclair, Brent Langhals

Air Force Institute of Technology, Wright-Patterson AFB,

Ohio, USA;

LinQuest Corporation, Beavercreek, Ohio, USA

10:40 - 11:00am: Real-time Motion Planning for Autonomous Vehicles in

Dynamic Environments

Mohammad Dehghani Tezerjani*, Sudip Dhakal, Deyuan Qu,

Dominic Carrillo, Amir Mirzaeinia, Qing Yang Department of Computer Science and Engineering,

University of North Texas, Texas, USA

SESSION 33-THU (SAM TRACK):

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SECURITY AND MANAGEMENT

Co-Chairs: TBA

July 25, 2024 (Thursday); 11:00am - 12:20pm

(LOCATION: Ballroom Galleria E)

11:00 - 11:20am: An Optimized Key Schedule Algorithm of PRESENT-128 using

Elliptic Curve Cryptosystem

Saleh Al-Sharaeh*, Waleed Hisham Al-Fakiat

Department of Computer Science, King Abdullah II School of Information Tech., The University of Jordan, Amman, Jordan

11:20 - 11:40am: Adaptive Leadership in Public-Private Partnerships for

Security Ehancement Satpreet Singh

National University, Manteca, California, USA

11:40a - 12:00p: An Analysis of Cyber Threats and the Protective Role of Cyber

Insurance in the US Market Zia Muhammad, Jeremy Straub

Department of Computer Science, North Dakota State University,

Fargo, North Dakota, USA;

Institute for Cyber Security Education and Research, North Dakota State University, Fargo, North Dakota, USA

12:00 - 12:20pm: The Role of Cyber Incident Response Plans in Securing Higher

Education Institutions

Tanya Graham*, D'Andra Bennett, Jameilia Jones,

Shantae Coote, Jada Lawerence University of Technology, Jamaica

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

SESSION 34-THU (SAM TRACK): Continued ...

(CONCURRENT SESSION WITH ON-SITE & ONLINE SESSIONS)

SCOPE: SECURITY AND MANAGEMENT

Co-Chairs: TBA

July 25, 2024 (Thursday); 01:20pm - 03:00pm

(LOCATION: Ballroom Galleria E)

01:20 - 01:40pm: Detecting Malware Traffic with Graph Neural Networks

Matthew Straughn, Armon Barton*, Bruce Allen

Computer Science Department,

Naval Postgraduate School Monterey, California, USA

01:40 - 02:00pm: Reverse Engineering the CAN Bus: Vulnerability Analysis in

the Tesla Model

Matthew A. Telfor, Bryson R. Payne*, Tamirat T. Abegaz Department of Computer Science and Information Systems, University of North Georgia, Dahlonega, Georgia, USA

02:00 - 02:20pm: Managing Human Factors Vulnerabilities in the Risk

Assessment Process

Olumide Malomo*, Shanzhen Gao, Adeyemi A. Adekoya, Ephrem Eyob,

Aurelia M. Donald, Cynthia S. Ellison, Julian D. Allaga,

Weizheng Gao, Jianning Su

Department of Computer Information Systems, Reginald F Lewis College of Business, Virginia State University, Petersburg,

Virginia, USA;

Department of Mathematics, Computer Science and Engineering Technology, The School of Science, Aviation, Health, & Technology, Elizabeth City State University, Elizabeth City,

North Carolina, USA;

Department of Mathematics, Perimeter College, Georgia State

University, Atlanta, Georgia, USA

02:20 - 02:40pm: Federated Deep Learning-Based Framework for Intrusion

Detection in Modbus Sensor Networks

Abir EL Azzaoui, Jimin Ha, Jungho Kang, Ji Su Park, and

Jong Hyuk Park

Department of Computer Science and Engineering, Seoul National University of Science and Technology,

Seoul, South Korea;

Department of Software Engineering, Baewha Women's

University, Seoul, South Korea;

Department of Computer Science and Engineering, Jeonju University, Jeonju-si, South Korea

02:40 - 03:00pm: FREE SLOT

03:00 - 03:20pm: BREAK (Refreshments)

July 25, 2024 (Thursday)

(LOCATION: Galleria B & C; Registration Counter/Desk)

03:20 - 03:40pm: CONGRESS CLOSING REMARKS

(LOCATION: Ballroom Galleria E)

LIST OF OTHER PAPERS & POSTERS (Presentation Options 3 or NR):

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 CSCE 2024 web site at

https://www.american-cse.org/csce2024/

https://www.american-cse.org/csce2024/program

The list that appears below includes all those papers and posters whose authors selected OPTION 3 or NR (did Not Report).

The 8th International Conference on Applied Cognitive Computing (ACC'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-ACC

O. A Secure Self-Adaptive System in Applications of Cognitive Computing Yong-Kyu Jung Georgia Institute of Technology, Georgia, USA; Gannon University, Erie, Pennsylvania, USA

The 25th International Conference on Bioinformatics & Computational Biology

(BIOCOMP'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-BIOCOMP

The 10th International Conference on Biomedical Engineering & Sciences

(BIOENG'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-BIOENG

- O. Enhancing Diabetes Prediction with Advanced Machine Learning Techniques Yuan Tian, Chuan Wang, Wen Shi, Ying Zhou, Yi Zhou Vanderbilt University, Nashville, Tennessee, USA; Department of Chemical Engineering & Department of Biosystems Engineering, Auburn University, Auburn, Alabama, USA; Department of Economics, TSYS School of Computer Science, Columbus State University, Columbus, Georgia, USA
- O. Classification of Heart Rate Variability (HRV) based on Attention Mechanism of Transformer Model Shijun Tang Department of Computer Science, Schreiner University, Kerrville, Texas, USA
- O. EEGNet-Vision Transformer Ensemble Model with Pseudo Labeling for Epilepsy Patients Seizure Prediction from EEG Hyoseop Shin, Geun-Hyeong Kim, Seung Park Medical Artificial Intelligence Center, Chungbuk National University Hospital, Cheongju-si Chungcheongbuk-do, Republic of Korea; College of Medicine Chungbuk National University, Medical Artificial Intelligence Center, Chungbuk National University Hospital, Cheongju-si, Republic of Korea; College of Medicine Chungbuk National University, Department of Biomedical Engineering, Chungbuk National University Hospital, Mediv Corp, Cheongju-si, Republic of Korea
- O. Advancing Fall Detection and Prevention: Integrating Wearable Devices and a Camera-Based Analysis
 Mark Ziyi Zhu, Alexdander Xiaoxiang Zhou, Boya Hou, Chris Cheng Zhang The University of British Columbia, Vancouver, BC, Canada; Sentinel Secondary School, West Vancouver, BC, Canada; Burnaby North Secondary School, Burnaby, BC, Canada; Department of Research and Development, Canada Youth Robotics Club, Vancouver, BC, Canada
- O. Internet-of-Things Chair and the 30 Second Chair Stand Test
 Melissa S. Lee, Alexander W. Lee, Philipp Schroeder, Chelsea Yeh, Kyle Yeh
 Chino Premier Surgery Center, Chino, California, USA;
 Walnut Valley Research Institute, Walnut, California, USA;
 Yale University, New Haven, Connecticut, USA;
 Brown University, Providence, Rhode Island, USA
 VIDEO: https://youtu.be/ylScMXP4hQI

The 22nd International Conference on Scientific Computing (CSC'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-CSC

- O. Acquisition and Analysis of Mobile Data using Digital Forensics Tools and Techniques
 Yahya Sayeed, Ali A. Jalooli, Mehrdad S. Sharbaf
 Department of Computer Science, California State University Dominguez Hills,
 Carson, California, USA
- O. A Novel Deep Learning Method for Solving PDE's Applied to a Shallow Water Problem
 Jose Palacios-Garcia, Julio Ibarra-Fiallo, Servando Espin-Torres
 Colegio de Ciencias e Ingenierias Universidad San Francisco de Quito,
 Cumbaya, Ecuador
- O. Scientific Constructing Adequate Statistical Decision Rules under Parametric Uncertainty of Applied Mathematical Models via the Smart Use of Pivotal Quantities and Ancillary Statistics Nicholas Nechval, Gundars Berzins, Konstantin Nechval BVEF Research Institute, University of Latvia, Riga, Latvia; Mathematics Department, Riga Aeronautical Institute, Riga, Latvia VIDEO: https://drive.google.com/file/d/1153utmVyF35Z41hLUm0S8z6bC4cGXZJM/view
- O. A Smart Air Quality Analysis and Pollutant Diffusion Detection and Prediction System Based on Tree Canopy Shape Research Using Machine Learning and Artificial Intelligence Mingyuan Liu, Ang Li Montverde Academy Shanghai, Shanghai, China; EECS Department, California State University, Long Beach, California, USA
- O. A High Order Scheme for Modelling Viscous Incompressible Fluid Flow in a Channel with a Step Saeed M. Dubas Engineering and Computer Science Division, University of Pittsburgh at Johnstown, PA, USA
- O. Regret-minimization Heuristics for Identifying Monotone Boolean Functions Michael Laszlo, Sumitra Mukherjee
 Nova Southeastern University, Fort Lauderdale, Florida, USA
 VIDEO: https://drive.google.com/file/d/1nJdpdq0-DNpgtWH5ZFw84l zmXuZUrxD/view
- O. Feasibility Study of Neutron Mammography Using MCNPX with a Breast Voxel Anthropomorphic Phantom
 Ali A. A. Alghamdia, Andy KW Ma, M. H. A. Mhareb, Gameel Saleh, E Abuelhia, Hamed A. Alshammari, D. A. Bradley
 Department of Radiological Sciences, College of Applied Medical Science, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia;
 School of Medicine, Royal College of Surgeons in Ireland-Bahrain, Adliya, Bahrain;
 Department of Physics, College of Science, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia;
 School of Mathematics and Physics, University of Surrey, Guildford, UK
 VIDEO: https://youtu.be/uXGJzhIvzWA
- O. Scalable Service Model and Scheduler for Delay-Sensitive Services
 Csaba Lukovszki, Jozsef Biro
 Department of Telecommunications and Artificial Intelligence,
 Faculty of Electrical Engineering and Informatics, Budapest University
 of Technology and Economics, Budapest, Hungary
 VIDEO: https://drive.google.com/file/d/10i-AHYKM0U8TtOU-xLPgH67ek6quHDj_/view?usp=sharing

The 23rd International Conference on e-Learning, e-Business, Enterprise Information Systems, & e-Government (EEE'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-EEE

O. Using Survey to Investigate the Integration of Artificial Intelligence in e-Learning Yi Tao, Zijiang Yang, Ethan Boyi Zhang St. Robert Catholic High School, Thornhill, Canada; School of Information Technology, York University, Toronto, Canada VIDEO: https://youtu.be/arFJHAsYvt8

O. Farmchain: Empowering Smallholder Farmers through Blockchain and DAOs:
Cryptournomic Approach
Sasan Bahrami, Kevin Aragon, Michael G. Wagner
Digital Media, Westphal College of Media Arts and Design,
Drexel University, Philadelphia, USA;
MaCT01, Institute for Advanced Architecture of Catalonia, Barcelona, Spain
VIDEO: https://youtu.be/lS1fZ6JAjzY

- O. Students Satisfaction with the Distance Education During Covid-19 Pandemic Omar Ahmad Masmali Department of Computer Technology, Dammam College of Technology, Dammam, Saudi Arabia
- O. Cybersecurity Threats: An Analysis of the Rise and Impacts of State Sponsored Cyber Attacks
 Patrick Butler, Jayden Kelley, Justin Ellis, Samuel Olatunbosun
 Norfolk State University, Norfolk, Virginia, USA
- O. A Self-Assessment Tool to Empower Police Officers' Online Protection Petra Saskia Bayerl, Marcel Obst, Jack Spencer, Martin Snowden, and Babak Akhgar CENTRIC (Centre of Excellence in Terrorism, Resilience, Intelligence and Organised Crime Research), Sheffield Hallam University, Sheffield, UK VIDEO: https://shu.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=2dfa0998-60b0-4e88-95d3-b1ae00e1582e
- O. Moore's Law: What Comes Next?
 Aimee Hatfield, Abdel-Hameed A. Badawy
 Klipsch School of Electrical and Computer Engineering, New Mexico
 State University, Las Cruces, New Mexico, USA
 VIDEO: https://www.youtube.com/watch?v=mNMwL6bcMOw

The 22nd International Conference on Embedded Systems, Cyber-physical Systems, & Applications (ESCS'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-ESCS

The 20th International Conference on Foundations of Computer Science (FCS'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-FCS

- O. Time Series Analysis for Detecting Anomalous Behavior using a Mobile Device
 Maruthi Prasanna Chellatore, Rishitha Reddy Pesaladinne, Sharad Sharma Department of Information Science, University of North Texas, Denton, Texas, USA
- O. MultiMap Implementation in OpenJDK
 Nishant Yadav, Robert Chun
 Computer Science, San Jose State University, California, USA
- O. A Novel Simple Data Structure for Selecting Inserting and Deleting in Square Root Time
 Hongyi Liu, Andre Mello Fortes (Chris Zhang)
 Steveston-London Secondary School, Richmond, British Columbia, Canada;
 Sager Education Inc., Canada
- O. The Evolution of Computer Science Education Yusuf Pisan, Taylor Eyler, Erica Ferguson, David Liu Computing & Software Systems, University of Washington Bothell, Bothell, Washington, USA
- TOIChain(TM) A Proposal for High Performance Tamper Resistant Transactions without Scaling Limits Justin Y. Shi SMC Labs, LLC, Collegeville, Pennsylvania, USA

The 20th International Conference on Frontiers in Education: Computer Science & Computer Engineering (FECS'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-FECS

- O. Navigating the Ethical Landscape of Big Data Collection and Analysis Nick Rahimi, Sarah Lee School of Computing Sciences & Computer Engineering, The University of Southern Mississippi, Hattiesburg, Mississippi, USA
- O. Capstone Projects as Ventures to New Knowledge Hong Wang, Robert Allen Langenderfer Computer Science and Engineering Technology, The University of Toledo, Toledo, Ohio, USA
- O. Learning from the Arts: Incorporating Classroom Critiques in a Computer Science Course
 Sonya Cates
 School of Engineering, Computing, and Construction Management,
 Roger Williams University, Bristol, RI, USA
- O. Unravelling Dropout Intentions: Multifaceted Factors Influencing Student Retention in Computer Science Education
 Alfia Pervez, Sakina Rao, Arshia Khan, Sherri Turner, Anne Hinderliter
 Computer Science Department, University of Minnesota Duluth,
 Duluth, Minnesota, USA
- O. Mentoring STEM Students by Faculty: A Literature and Expert Panel Review Sherri Turner, Anne Hinderliter, Arshia Khan Computer Science Department, University of Minnesota Duluth, Duluth, Minnesota, USA
- O. Integrating Technical Problem-Solving Skills Into Data Structures and Algorithms Course
 Yusuf Pisan
 University of Washington Bothell, Washington, USA
- O. Exploring the Potential of Generative AI in Education: Opportunities, Challenges, and Best Practices for Classroom Integration Cordero Jorge, Cordero-Castillo Alison Universidad Tecnica Particular de Loja, Loja, Ecuador

The 10th International Conference on Health Informatics & Medical Systems (HIMS'24: July 22-25, 2024; Las Vegas, USA) https://www.himscsce.org/hims24/ https://www.american-cse.org/csce2024/

- O. Enhancing Diabetes Mellitus Prediction: A Comparative Study of Random Forest and Stacking Ensemble Methods Adedeji Olugboja, Abu Kamruzzaman Department of Business and Economics, York College of the City University of New York (CUNY), Jamaica, New York, USA
- O. Duration and Measurements of Dementia Progression: A Systematic Review Arshia Khan, Isra Hassan, Matthew Sawchuk, Sakina Rao, Alfia Parvez, and Minza Nadeem Khan
 Computer Science Department, University of Minnesota Duluth,
 Duluth, Minnesota, USA
- O. Ethical Perspectives into the Utilization of Health Informatics for Cancer Care
 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
 VIDEO: https://www.youtube.com/watch?v=DwSoyEkkVvY
- O. Gender Differences in Robot Acceptance Yagna Manasa Boyapati, Arshia Khan Computer Science Department, University of Minnesota - Duluth, Duluth, Minnesota, USA
- O. Integrative Stress Assessment: A Triangulated Approach Using Psychological, Biochemical, and Physiological Measures Sakina Rao, Alfia Parvez, Arshia Khan Computer Science Department, University of Minnesota Duluth, Duluth, Minnesota, USA
- O. Emotional Landscapes: Family and Staff Perceptions of Robotic Assistants in Caregiving Settings
 Yagna Manasa Boyapati, Alfia Parvez, Sakina Rao, Arshia Khan, Donna Bliss, Teresa McCarthy
 Computer Science Department, University of Minnesota Duluth, Duluth, Minnesota, USA;
 School of Nursing Foundation, University of Minnesota, USA;
 Department of Family Medicine and Community Health,
 University of Minnesota, USA
- O. Gender Differences in Working Memory A Holistic Review Alfia Parvez, Arshia Khan Computer Science Department, University of Minnesota - Duluth, Duluth, Minnesota, USA
- O. Gender-Specific Risk Factors for Dementia: Exploring the Unique Vulnerabilities in Women Sakina Rao, Arshia Khan Computer Science Department, University of Minnesota Duluth, Duluth, Minnesota, USA

- O. Effects of Breathing Exercises on Cognition: A PRISMA Guided Systematic Review Sakina Rao, Arshia Khan Computer Science Department, University of Minnesota - Duluth, Duluth, Minnesota, USA
- O. Modernizing Medicine Through a Proof of Concept That Studies the Intersection of Robotic Exoskeletons, Computational Capacities and Dementia Care
 Ritwik Raj Saxena, Arshia Khan
 Computer Science Department, University of Minnesota Duluth,
 Duluth, Minnesota, USA
- O. Modeling the Dynamics of Infectious Diseases in a College Campus: A Case Study of the 2016 Harvard Mumps Outbreak
 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
 VIDEO: https://www.youtube.com/watch?v=HYIdktFFR8s
- O. Prediction of the Outcomes of SSRI Therapy for Depressed Patients using Tuned Q-factor Wavelet Transform and EEG Signals Hesam Akbari, Wael Korani, Priyan Malarvizhi Kumar Department of Information Science, University of North Texas, Texas, Denton, USA
- O. Prediction of the Outcomes of Repetitive Transcranial Magnetic Stimulation for Depressed Patients using Neural Networks and EEG Signals Hesam Akbari, Wael Korani, Priyan Malarvizhi Kumar, Reza Rostami, and Reza Kazemi
 Department of Information Science, University of North Texas, Denton, Texas, USA;
 Department of Psychology, University of Tehran, Tehran, Iran;
 Department of Cognitive Psychology, Institute for Cognitive Science Studies, Tehran, Iran
- O. A Respite Work Exchange Service Mechanism based on Blockchain Technology Yu-Hui Wang, Lun-Ping Hung, Shih-Yang Yang, Chia-Chen Wang Department of Information Management, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan; Department of Media Arts, University of Kang Ning, Taipei, Taiwan; Department of Information Management, Aletheia University, New Taipei, Taiwan
- O. Surgical Tool Detection: A Comparative Study of Supervised and Semi-Supervised Learning Approaches
 Shiva Shokouhmand, Md Motiur Rahman, Smriti Bhatt, Suranjan Panigrahi, and Miad Faezipour
 School of Engineering Technology, Electrical & Computer Engineering Technology, Purdue University, West Lafayette, Indiana, USA;
 Department of Computer and Information Technology, Purdue University, West Lafayette, Indiana, USA
 VIDEO: https://youtu.be/HMgkqDq2ZfE

- O. Predicting Efficacy of Cancer Drug Combinations Using Machine Learning Wenting Liu, Flora Rajaei, Kayvan Najarian
 Department of Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, Michigan, USA;
 Max Harry Weil Institute for Critical Care Research and Innovation, Michigan Institute for Data Science (MIDAS), Center for Data-Driven Drug Development and Treatment Assessment (DATA),
 University of Michigan, Ann Arbor, Michigan, USA
- O. Cardiac Valvular Diseases Classification Using Statistical Features and Machine Learning
 Hanan S. Murayshid, Khalid Al Dhafeeri, Turky Alotaiby,
 Gaseb N. Alotaibi, Adel Alshehri
 AI and Robotics Institute, King Abdulaziz City for Science and
 Technology (KACST), Riyadh, Saudi Arabia;
 Department of CS and Information, Imam Abdulrahman Alfisal
 University, Riyadh, Saudi Arabia;
 Department of CS and IT, University of Tabuk, Tabuk, Saudi Arabia
- O. Transformer-Based Encoder Method for Classification of Heart Rate Variability (HRV)
 Shijun Tang
 Department of Computer Science, Schreiner University,
 Kerrville, Texas, USA
- O. Electronic Health Record Summarization via LLM-constructed Knowledge Graph Tristram Dacayan, Daniel Ojeda, Daehan Kwak Department of Computer Science and Technology, Kean University, Union, New Jersey, USA

The 26th International Conference on Artificial Intelligence (ICAI'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-ICAI

- O. The Evolutional Treasury Hybrid Optimization System (ETHOS)
 N. Loukeris, G. Chalamandaris, I. Eleftheriadis
 Department of Business Administration, University of West Attica,
 Athens, Greece;
 Department of Accounting & Finance, Athens University of Economics and
 Business, Athens, Greece;
 Department of Business Administration, University of Macedonia,
 Thessaloniki, Greece
- O. The Evolutional Portfolio Optimization System (EPOS)
 N. Loukeris, Y. Boutalis, I. Eleftheriadis, A. Arampatzis, S. Livanis
 Department of Business Administration, University of West Attica,
 Athens, Greece;
 Department of Business Administration, University of Macedonia, Greece;
 Department of Accounting and Finance, University of Macedonia, Greece;
 Department of Electrical and Computer Engineers,
 Democritus University of Thrace, Greece
- O. Lookahead Secured AI/ML Platforms
 Yong-Kyu Jung
 Electrical & Cyber Enginering, Gannon University, Erie, Pennsylvania, USA
- O. A Voxel-representation-based Data Generator of Adversarial Objects for Robotic Manipulators Akshay, Garrett E. Katz, Chilukuri K. Mohan Department of EECS, Syracuse University, Syracuse, New York, USA
- O. Exploring Poverty Factors through Predictive Modeling
 Anatoli Nachev
 Business Information Systems, University of Galway, Galway, Ireland
 VIDEO: https://app.screencast.com/lopmeOpFjImUc
- O. Comparative Analysis of Statistical Machine Learning and Deep Learning Approaches for Forecasting News Popularity on Social Media Platforms Sai Krishna Maddukuri, Devinder Kaur Electrical Engineering & Computer Science, University of Toledo, Toledo, Ohio, USA VIDEO: https://youtu.be/G3Qp3DaqN48
- O. Analyzing Gender Polarity in Short Social Media Texts with BERT: The Role of Emojis and Emoticons
 Saba Yousefian Jazi, Amir Mirzaeinia, Sina Yousefian Jazi
 Department of Computer Science and Engineering, University of
 North Texas, Denton, Texas, USA;
 Independent Researcher, Santa Clara, California, USA
- O. Induction of Association Rules Using Mapping and Sorting Lixin Fu, Naga Lakshmi Department of Computer Science, University of North Carolina, Greensboro, North Carolina, USA
- O. Automatic Labeling of Computer Vision Data Using Self-Supervised Learning Abdulghani M. Abdulghani, Wilbur L. Walters, Khalid H. Abed Jackson State University, Jackson, Mississippi, USA

- O. Object Detection and Counting Using Voice Recognition for Real-Time Human-Machine Teaming Tasks
 Mokhles M. Abdulghani, Wilbur L. Walters, Khalid H. Abed
 Jackson State University, Jackson, Mississippi, USA
- O. Object Detection and Counting Using YOLOV7 for Human-Machine Interaction Tasks
 Abdulghani M. Abdulghani, Wilbur L. Walters, Khalid H. Abed Jackson State University, Jackson, Mississippi, USA
- O. Voice-Based Object Detection and Counting with Speaker Identity Verification for Human-Machine Interactions Tasks Mokhles M. Abdulghani, Wilbur L. Walters, Khalid H. Abed Jackson State University, Jackson, Mississippi, USA
- O. Towards the Generation of Learning Objects with Generative Artificial Intelligence Aiden Black, Guillermo Francia, III Department of Cybersecurity, University of West Florida, Pensacola, Florida, USA; Center for Cybersecurity, University of West Florida, Pensacola, Florida, USA VIDEO: https://drive.google.com/file/d/1SJMOu93EDGYP7FwChbPzm4ZyTMNArBJo/view?usp=sharing
- O. 3D Artistic Images Generation from 2D Images Using Improved Wasserstein Generative Adversarial Networks
 Dorcas Oladayo Esan, Pius Adewale Owolawi, Chunling Tu
 Department of Computer Systems Engineering, Tshwane University of
 Technology, Pretoria, South Africa
 VIDEO: https://youtu.be/Xn7runRAb04
- O. Enhancing Irrigation Efficiency with a Unified Stochastic Decision Tree Model: Predictive Analysis of Stem Water Potential in Almond and Pistachio Orchards
 Azar Alizadeh, Mehrad Mortazavi, Mohsen Farajijalal, Arash Toudeshki, Reza Ehsani, Mukesh Singhal
 Department of Electrical Engineering and Computer Science, University of California Merced, California, USA;
 Department of Mechanical Engineering, University of California, Merced, California, USA
 VIDEO: https://youtu.be/dUU9n-vGhC4
- O. Performance Evaluation of Human-Machine Interaction for Safely Navigating Agent in Unity Environment Abdulghani M. Abdulghani, Wilbur L. Walters, Khalid H. Abed Jackson State University, Jackson, Mississippi, USA
- O. Evaluating Artificial Intelligence Robustness Against FGSM and PGD Adversarial Attacks with L-norms Perturbations Ahmeed A. Yinusa, Misagh Faezipour Computational and Data Science Program, Middle Tennessee State, University, Murfreesboro, Tennessee, USA; Department of Engineering Technology, Middle Tennessee State University, Murfreesboro, Tennessee, USA
- O. UAV-Assisted Car Accident Examination
 Joud Faisal Al-Twaim, Adeem Turki Alotaibi, Lamyaa Nasser Alrayes,
 Noura Ali Alhenaki, Lamees Alhazzaa
 College of Computer Science and Information,
 Al Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi arabia

- O. Deep Reinforcement Learning Strategies in Finance: Insights into Asset Holding, Trading Behavior, and Purchase Diversity Alireza Mohammadshafie, Akram Mirzaeinia, Haseebullah Jumakhan, and Amir Mirzaeinia Computer Science and Engineering, University of North Texas, Denton, Texas, USA; Independent Researcher, Ajman, United Arab Emirates (UAE); Artificial Intelligence Research Center (AIRC), Ajman University, Ajman, United Arab Emirates (UAE)
- O. Room Generation System on VR Space by Selecting Furniture According to User's Sensitivity
 Misako Imono, Seiji Tsuchiya, Hirokazu Watabe
 Department of Information Systems, Daido University, Nagoya, Japan;
 Department of Intelligent Information Engineering and Science,
 Doshisha University, Kyoto, Japan
- O. Gradient Reduction Convolutional Neural Network Policy for Financial Deep Reinforcement Learning Sina Montazeri, Haseebullah Jumakhan, Sonia Afrasiabian, Amir Mirzaeinia Computer Science and Engineering, University of North Texas, Denton, USA; Artificial Intelligence Research Center (AIRC), Ajman University, Ajman, United Arab Emirates
- O. Automatic Detection of Errors in LLM Large Benchmarks Using Frontier Model Consensus Carlos Toxtli, Cecilia Delgado-Solorzano, Manuel Delaflor Clemson University, South Carolina, USA; Ayeka Research Centre
- O. Large Language Models Prompt Engineering: Principles and Techniques Anoushka Popuri, John Miller Francis Howell School District, O Fallon, Missouri, USA
- O. Orthogonal Activation Functions in Neural Networks: Utilizing Chebyshev, Legendre, and Hermite Polynomials
 Saeid Safaei, Khaled Rasheed, Thiab Taha, Vahid Safaei, Budak Arpinar, Juan B. Gutierrez, Hamid R. Arabnia
 University of Georgia, Athens, Georgia, USA;
 University of Isfahan, Isfahan, Iran;
 University of Texas at San Antonio, San Antonio, Texas, USA
- O. An Investigation of Methods for Improving Spatial Invariance of Convolutional Neural Networks for Image Classification David Noel, Sumitra Mukherjee College of Computing and Engineering, Nova Southeastern University, Fort Lauderdale, Florida, USA
- O. Artificial Intelligence based Automatic Product Recognition for Toys Retail Stores
 Cristina Hava Muntean, Aditi Bharadwaj, Rohit Verma
 School of Computing, National College of Ireland, Dublin, Ireland
- O. Predictive Modeling of Shading Effects on Photovoltaic Panels Using Regression Analysis
 Jonathan Olivares, Tyler Depe, Kanika Sood, Rakeshkumar Mahto Department of Electrical and Computer Engineering,
 California State University, Fullerton, California, USA;
 Department of Computer Science, California State University,
 Fullerton, California, USA

- O. Bridging the Gap: The Sentiment of User Reviews and 5-Star Ratings Maliha Haider, Bin Hu, Daehan Kwak
 Department of Computer Science and Technology,
 Kean University, Union, New Jersey, USA
- O. Leveraging Data Augmentation and Large Language Models for Enhanced COVID-19 Tweet Classification Eric Landaverde, Adam Spencer, Daehan Kwak Department of Computer Science and Technology, Kean University, Union, New Jersey, USA
- O. Enhancing Clinical Documentation Through NLP-driven Disease Categorization and Visualization: A Case Study Utilizing the Llama2 AI Model Bhavraaj Singh, Atif Farid Mohammad, Muhammad Abdul Basit Ur Rahim Department of Computer Engineering and Computer Science, California State University, Long Beach, California, USA; Department of Computer Science, University of the Cumberlands, Williamsburg, Kentucky, USA
- O. Unleashing the Lifesaving Potential: A Deep Dive into Responsible AI Use Atif Farid Mohammad, Matt Jacoby, Parnjal Sharma, Kaushik Busi, and Vamsee Kotha Global Technology Systems (GTS), City of Cary, NC, USA
- O. A Review of Uncertainty Quantification in Convolutional Neural Networks Sina Montazeri, Pooya Tavallali Independent Researcher, Cambridge, USA Computer Science and Engineering, University of North Texas, Denton, Texas, USA;

The 20th International Conference on Data Science (ICDATA'24: July 22-25, 2024; Las Vegas, USA) https://icdatascience.org/https://www.american-cse.org/csce2024/

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The 23rd International Conference on Information & Knowledge Engineering (IKE'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-IKE

- O. DataDock: An Open Source Data Hub for Research Lexington Whalen, Homayoun Valafar Department of Computer Science and Engineering, University of South Carolina, Columbia, USA
- O. Artificial Intelligence Data Reduction Algorithm for Streaming Readout in High Energy Physics Experiment
 Marco Battaglieri, Fabio Rossi, Paolo Gastaldo, Edoardo Ragusa Istituto Nazionale di Fisica Nucleare, Genova, Italy;
 University of Genoa (Italy)
- O. Mobile Application for Conducting Time Series Analysis on Location-Based Spatial Data
 Bhoj Raj Bhatt, Shikhar Sharma
 Department of Information Science, University of North Texas,
 Denton, Texas, USA;
 Wakeland High School, Frisco, Texas, USA
- O. Proactive Management of Delays in the French Railway Network: A Seasonal Machine Learning Based Approach
 Prachi Mahajan, Paul Stynes, Cristina Hava Muntean
 School of Computing, National College of Ireland, Dublin, Ireland
- O. Models for Security Management Christopher Spruill, Md Khalil, Samuel Olatunbosun Norfolk State University, Norfolk, Virginia, USA
- O. A Comprehensive Analysis of Information Security Policy and Security Program Development Salim Jackson, Willis Dunn, Samuel Olatunbosun Norfolk State University, Norfolk, Virginia, USA
- O. Real-Time AI Voice Clone Detection: A Deep Learning Approach to Safeguard Authenticity
 Thaier Hayajneh, Cody Chen
 Fordham University, USA
- O. Application of Transformer Models for Demand Forecasting in FMCG Industry Vineeth Pydi, Liana Simopoulos, Nicholas Zimmerman, Pratiksha Gupta, and Nikolai Saporoschetz Purdue University, USA
- O. Enhancing Financial Analysis with Generative AI: Utilizing Large Language Models for Efficient Data Extraction
 Durga Madhab Dash, Matthew Lanham, Soham Agarwal,
 Anto Fredric Henry Mohan Dass, Sai Bheeshma Ramaraju Pagilla,
 Chaitanya Varma Sanaboina, Ashwin Mishra
 Purdue University, USA

- O. Scalable Image Search Engine
 Fatemeh Sarayloo, Adharsh Madhusudan Madhusudan, Kushal Adity,
 Ming-Jen Chang, Siji Adisa, Vinay Khandelwal
 University of Illinois at Chicago, USA
- Review of Emerging Threats in Cyberspace: A Replicated Study Based on a Year 2022 Research Devonte W. Bethea, Samuel Bo Olatunbosun Norfolk State University, Norfolk, Virginia, USA
- O. Cybersecurity: Sight and Foresight Kevin Brodie, Samuel Olatunbosun Norfolk State University, Norfolk, Virginia, USA
- O. CNN to BiLSTM: Enhancing Setswana Named Entity Recognition Shumile Chabalala, Pius Owolawi, Sunday Ojo Tshwane University of Technology, South Africa
- O. SynthFair: Ensuring Subgroup Fairness in Classification via Synthetic Data Generation
 Begum Hattatoglu, Abdulhakim A. Qahtan, Heysem Kaya, Yannis Velegrakis Utrecht University, Netherlands
- O. Enhancing Security with Automated Boom Gate Access through License Plate Recognition utilising YOLOv8 Model
 Christine Asaju, Pius Owolawi, Chunling Du, Etienne Van Wyk
 Tshwane University of Technology, South Africa
 VIDEO: https://youtu.be/MstaX7SyU5s
- O. FIONA: Detecting Syntactical Outliers in Attributes with Categorical Values
 Abdulhakim A. Qahtan, Thanos Tsiamis
 Utrecht University, Netherlands
- O. Leveraging Ensemble Learning Paradigms for B2B E-Commerce Fraud Detection Sai Kiran Reddy Malikireddy, Subhayan Roy, Shivani Fnu, Tanvi Bagwe, and Rewati Ovalekar Walmart, USA
- O. Protecting the Whisper: A Security Assessment of Amazon CodeWhisperer's Generated Code
 Thaier Hayajneh, Gabriel Araujo
 Fordham University, USA
- O. TGAIN: Missing Data Imputation for Mixed-Type Relational Datasets using Generative Adversarial Networks
 Ouassim Bannany, Abdulhakim A. Qahtan
 Utrecht University, Netherlands
- O. Generative AI Techniques for the Simulation of Groundwater Well Data at Hanford Site Fabiola Rivera Noriega Florida International University, Florida, USA
- O. The Rising Threat Against Modern Technology in Cybersecurity Rashel Dibi, Samuel Olatunbosun Norfolk State University, Norfolk, Virginia, USA

- O. Comprehensive Analysis and Detection of Fraud Schemes on the Ethereum Blockchain Using Machine Learning Thaier Hayajneh, Kayla Ramdass, Maria Chano, Mohamed Rahouti Fordham University, USA
- O. Predicting NVIDIA'S Next-Day Stock Price: A Comparative Analysis of LSTM, MLP, ARIMA, and ARIMA-GARCH Models
 Yiluan Xing, Chao Yan, Cathy Chang Xie
 Indiana University Bloomington, Indiana, USA
- O. Generative AI use in One Health, One System as Healthcare is Global Muhammad Abdul Basit Ur Rahim, Atif Farid Mohammad California State University Long Beach, California, USA
- O. Generating Culturally Appropriate Avatars Zeeshan Gilani Purdue University, USA
- O. The Use of Social Media and the Internet for the Facilitation of Human Trafficking
 Maria Paulina Ramirez, Samuel Olatunbosun
 Norfolk State University, Norfolk, Virginia, USA
- O. Cybersecurity Techniques, Emerging Threats, and Industry Responses Momo A. Tulay, Samuel Olatunbosun
 Norfolk State University, Norfolk, Virginia, USA
- O. Exploring Equity: Integrating Knowledge Graphs in Fairness Testing Methodologies
 Jonathan Dabu, Muhammad Abdul Basit Ur Rahim, Muhammad Abid, and Shahid Hussain
 California State University Long Beach, California, USA
 VIDEO: https://www.youtube.com/watch?v=yDqukP0ys1s
- O. Leveraging NLP and Large Language Models for Clinical Documentation Improvement: A Medical AI Chatbot Approach Bhavraaj Singh, Atif Farid Mohammad, Muhammad Abdul Basit Ur Rahim California State University Long Beach, US

The 3rd International Conference on Emergent Quantum Technologies (ICEQT'24: July 22-25, 2024; Las Vegas, USA) https://baylor.ai/iceqt/ https://www.american-cse.org/csce2024/

O. Integrating Secure Quantum Digital Signature into Quantum Communications Ahmad O. Hijaz, Ibrahim Yakubu, Jinsuk Baek Department of Computer Science, University of North Carolina Greensboro, North Carolina, USA; Department of Computer Science, Winston-Salem State University, North Carolina, USA VIDEO: https://youtu.be/LsRo4b2BGd0

- O. Learning Robust Observable to Address Noise in Quantum Machine Learning Bikram Khanal, Pablo Rivas Department of Computer Science, Baylor University, Waco, Texas, USA
- O. Methodology to Accelerate Defense and Federal Agency Adoption of Quantum Technologies
 James Hornage
 Capitol Technology University, Maryland, USA
- O. Federal Cloud Computing Adoption Case Study: A Retrospective Analysis as a Precursor to Optimized Quantum Adoption Methodologies
 James Hornage
 Capitol Technology University, Maryland, USA

The 25th International Conference on Internet Computing & IoT (ICOMP'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-ICOMP

O. IoT-based Analysis of Environmental and Motion Data for Comfort and Energy Conservation in Optimizing HVAC Systems
Badmus Abdulwaheed, Ken McGarry, David Baglee, Neil Eliot
School of Engineering, Faculty of Technology, University of Sunderland, UK;
School of Computer Science, Faculty of Technology,
University of Sunderland, UK
VIDEO: https://youtu.be/JY7letRCYv0

- O. DRIVE: A Mobile Application for Directed, Remote, Interactive Viewing and Exploring
 Sonya Cates, Rudolph Desanti, Roderick Ramirez, Kyle Witham
 School of Engineering Computing and Construction Management,
 Roger Williams University, Bristol, Rhode Island, USA
- O. Autonomous Driving Prototype with Raspberry Pi by Using Image Processing Technology
 Mert Kaval, Jerry Yinran Huang, Jinhui Shen, Yanxiao Wang, Haowei Ni,
 Lang Qin, Chris Zhang
 Department of Research and Development, Cansight Technology Corp.,
 Vancouver, BC, Canada;
 Nanjing Foreign Language School, Nanjing, Jiangsu, China;
 School of Broadcasting and Hosting Arts, Communication University of
 China, Nanjing, Jiangsu, China;
 High School Affiliated to Nanjing Normal University, Jiangning Campus,
 Nanjing, Jiangsu, China
 Saint Patrick Regional Secondary School, Vancouver, BC, Canada;
- O. A Data-Driven Driving Under the Influence (DUI) Detection, Notification and Prevention System using Artificial Intelligence and Internet-Of-Things (IoT)
 Aaron Li, Yu Sun
 Francis Parker School, San Diego, California, USA
 Computer Science Department, California State Polytechnic University, Pomona, California, USA;
- O. Revolutionizing Multiplayer Gaming: A Deep Dive into VisionXO, a 3D Multiplayer Tic-Tac-Toe Game Mihir Kanjibhai Daka, Jiaofei Zhong, Deepak Shivrambhai Antiya Department of Computer Science, California State University East Bay, Hayward, California, USA; Oracle, America, Tracy, California, USA
- O. Smart Roadway Monitoring: Pothole Detection and Mapping via Google Streetview
 Shazab Ali, Meng Xu, Daehan Kwak
 Department of Computer Science and Technology,
 Kean University, Union, New Jersey, USA
- O. Advancing Nursing Education through Virtual Reality Training: A Revolutionary Approach to Ensuring Patient Safety Sai Lokesh Reddy Gayam, Jiaofei Zhong Department of Computer Science, California State University East Bay, Hayward, California, USA

- O. Energy-Efficiency Modeling for AI Applications on Edge Computing Vamsi Krishna Bhagavathula, Xian Gao, Yi Zhou, Rania Hodhod, Lixin Wang TSYS School of Computer Science, Columbus State University, Columbus, Georgia, USA
- O. Collaborative Federated Learning Cloud Based System
 Partha Pratim Saha, Naresh K. Sehgal, Miad Faezipour
 Wipro Technologies Limited, Pune, Maharashtra, India;
 Deeply Human AI, Inc., Santa Clara, California, USA;
 Purdue University, School of Engineering Technology, Electrical &
 Computer Engineering Technology, West Lafayette, Indiana, USA
 VIDEO: https://youtu.be/FrnB2nLlfXE
- O. Optimizing Wireless Sensor Network Node Placement Using Bacterial Foraging Optimization
 Piyush Rawat, Naga Raghuram Chinnapurapu, Tiansheng Yang, and Rajkumar Singh Rathore
 Faculty of Engineering and Technology ITER, Siksha "O" Anusandhan (Deemed to Be University), Bhubaneswar, India;
 School of Computer Science, UPES, Dehradun, Uttarakhand, India;
 Department of Electronics and Communication Engineering,
 Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada,
 Andhra Pradesh, India;
 University of South Wales, Pontypridd, UK;
 Cardiff School of Technologies, Cardiff Metropolitan University,
 Llandaff Campus, Cardiff, UK

The 23rd International Conference on Wireless Networks (ICWN'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-ICWN

- O. Classification of Radio Signal Modulations using Convolutional Neural Network Caleb Hill, Byeong Kil Lee Department of Electrical and Computer Engineering, The University of Colorado, Colorado Springs (UCCS), Colorado, USA
- O. A Prototype for Fire Detection based on Social Internet of Things Francesco Carta, Daniele Loru, Martina Putzu, Mariella Sole, Angelo Ledda, Andrea G. Piras, Alessio Chirigu, Daniele Giusto, and Matteo Anedda

 DIEE Department of Electrical and Electronic Engineering,
 University of Cagliari UdR CNIT Cagliari, Italy
- O. Hybrid Differential Evolution Algorithm for Optimal WSN Node Deployment Rahul Priyadarshi, Piyush Rawat, Naga Raghuram Chinnapurapu, Tiansheng Yang, Rajkumar Singh Rathore Faculty of Engineering and Technology, ITER, Siksha "O" Anusandhan (Deemed to Be University), Bhubaneswar, India; School of Computer Science, UPES, Dehradun, Uttarakhand, India; Department of Electronics and Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India; University of South Wales, Pontypridd, UK; Cardiff School of Technologies, Cardiff Metropolitan University, Llandaff Campus, Cardiff, UK

The 28th International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-IPCV

O. Implications for Designing Hawks Detection with Data Augmentation and Network Optimizations
Adam Smith, Judah Small, Byeong Kil Lee
Department of Electrical and Computer Engineering,
The University of Colorado, Colorado Springs (UCCS), Colorado, USA

O. Residential Real Estate Image Classification for Property Valuation Mehrdad Ziaee Nejad, Mohsen Naderpour, Vahid Behbood, Fahimeh Ramezani, Jie Lu Australian Artificial Intelligence Institute (AAII), Faculty of Engineering and IT, University of Technology Sydney (UTS), NSW, Australia

O. Deep Learning Techniques for Lunar Impact Crater Identification Based on CCD and DEM Data Siyi Chen, Cheng Li, Yueqi Ma, Jiarui Liang, Jionghao Zhu, Xiaolin Tian Macau University of Science and Technology, Macau, China; The Chinese University of Hong Kong, Shenzhen, Guangdong, China VIDEO: https://valvecropmy.sharepoint.com/:v:/g/personal/csy_wiki_pw/EcC6_PQbzc9IsSuWJmHV1VsB1EXKb7Y63tjyqvF5RiiEhg?e=HEH42d

- O. Lalitha: A Hand Gesture-Based Computer Control System Tathagata Bhattacharya, Vinay Alsa, Akil Kumar Vujjini Auburn University at Montgomery, Alabama, USA
- O. Silicon Wafer Map Defect Classification Using Artificial Intelligence Models
 Rushendar Pilli, Suranjan Panigrahi, Miad Faezipour School of Engineering technology, Purdue University, West Lafayette, Indiana, USA
 VIDEO: https://youtu.be/DhEXnYhwObE
- O. Detecting and Quantification of Cracks using CNN and Image Processing Techniques: A Review
 Alanoud Abdulrahman Alhomoud, Reema Ibrahim Alshawi,
 Shaikha Hussein Mokhlis, Shatha Khalid Alhazzani, Lamees Alhazzaa
 Computer Science, Imam Mohammad Ibn Saud Islamic University,
 Riyadh, Saudi Arabia
- O. Weakly-supervised Video Anomaly Detection Using Modified Anomaly Score Module and Modified BERT
 Jun-Xiang Chen, Jin-Jang Leou
 Department of Computer Science and Information Egineering,
 National Chung Cheng University, Taiwan, Republic of China
- O. Low Light Image Enhancement Using Autoencoder-based Deep Neural Networks Kuei-Yu Chen, Jin-Jang Leou
 Department of Computer Science and Information Engineering,
 National Chung Cheng University, Taiwan, Republic of China
- O. A Review of Multi-Modal and Multi-View Applications in Hand-Drawn Sketch Images
 Yunqi Xu, Ching Y. Suen
 CENPARMI, Gina Cody School of Engineering and Computer Science,
 Concordia University, Montreal, Quebec, Canada

The 21st International Conference on Modeling, Simulation & Visualization Methods (MSV'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-MSV

- O. Prediction of 1st Year Registration Renewal of General-use JP Domain Names Using Machine Learning Takaharu Ui, Shota Ikehara, Kentaro Mori, Takeshi Ozaki, Hiroo Hirose Suwa University of Science, Nagano, Japan; Japan Registry Services Co., Ltd., Tokyo, Japan
- O. Understanding Public Policy Effects on Alcohol-related Behaviors and Outcomes Using System Dynamics
 Damilare Ogungbesan, Ashiat Ashake Adeogun, Aanuoluwapo Adekoya, and Misagh Faezipour
 Healthcare Informatics Program, Middle Tennessee State University, Murfreesboro, Tennessee, USA;
 Department of Engineering Technology, Middle Tennessee State University, Murfreesboro, Tennessee, USA
- O. Performance Investigation of small UAV Attitude Control Based on Optimized Nonlinear Dynamic Inversion
 Ahmed Mansour, Ahmed M. Kamel, Safa M. Gasser, Mohamed S. El-Mahallawy Electronics and Communications Department, Arab Academy for Science and Technology, Cairo, Egypt;
 Guidance Department, Military Technical College, Cairo, Egypt

The 30th International Conference on Parallel & Distributed Processing Techniques & Applications (PDPTA'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-PDPTA

- O. Is Manual Code Optimization Still Required to Mitigate GPU Thread Divergence? Applying a Flattening Technique to Observe Performance Lucas Vespa
 University of Illinois, Springfield, Illinois, USA
- O. REFT: Resource-Efficient Federated Training Framework for Heterogeneous and Resource-Constrained Environments
 Humaid Ahmed Desai, Amr Hilal, Hoda Eldardiry
 Virginia Tech, Blacksburg, Virginia, USA;
 Tennessee Tech University, Tennessee, USA

The 23rd International Conference on Security & Management (SAM'24: July 22-25, 2024; Las Vegas, USA) http://sam.udmercy.edu/sam24/ https://www.american-cse.org/csce2024/

- O. A Hybrid Risk Assessment Technique for Data Centers Lorna Kangethe, Lei Chen Department of Information Technology, Georgia Southern University, Stateboro, Georgia, USA
- O. Social Engineering: Financial and Psychological Effect Francis Onodueze, Andre Kiah Bowie State University, Maryland, USA
- O. Network Intrusion Detection Based on Transformer Model Shijun Tang Department of Computer Science, Schreiner University, Kerrville, Texas, USA
- O. Applying Hyperledger Fabric to a Credit Transfer Process A Case Study Wilson Rojas Reales, Santiago Acevedo Rodriguez, Fabian Gomez Cespedes Universidad El Bosque, Colombia
- O. A Static Over-approximate Detection Tool for At-risk DLLs Jack Berkowitz, Weihao Qu Department of Computer Science and Software Engineering, Monmouth University, West Long Branch, New Jersey, USA
- O. Enhancing User Active Authentication Through Keystroke Dynamics: Analysis of Individual Letter Characteristics and Classifier Performance Alaa Darabseh, Xian Liu Department of Mathematics, Engineering and Computer Science, LaGuardia Community College, CUNY, New York, USA
- O. Subject Matter Experts' Feedback on Cybersecurity Footprint Index Measures to Assess Organizational Cyber Posture of Manufacturing Companies John Del Vecchio, Yair Levy, Ling Wang, Ajoy Kumar Nova Southeastern University, Florida, USA
- O. Blockchain Technology Readiness in Engineering Project Management:
 Industry Experts. Perspectives
 Nana-Yao Nsowah, Kwame Assa-Agyei, Frederick Edem Junior Broni,
 Selina Amoah, Daniel O.T. Ihenacho
 Internal Audit Department, Kwahu Praso Rural Bank LTD., Nkawkaw, Ghana;
 Department of Computer Science, Nottingham Trent University,
 Nottingham, UK;
 Computer Science and Engineering Department, University of Mines and
 Technology, Tarkwa, Ghana;
 School of Management Universite Clermont Auvergne,
 Clermont-Ferrand, France;
 Department of Management Information Systems, University of Illinois,
 Springfield, Illinois, USA
- O. Value Embedding Approach for Access Control
 Thanh Duc Bui, Brajendra Panda
 Department of Electrical Engineering and Computer Science,
 University of Arkansas, Fayetteville, Arkansas, USA
 VIDEO: https://youtu.be/k1tjREXm5wM

- O. An Adversarial Training Approach for Defending Against Object Misclassification in Smart Vehicles Bennett Akpomedaye, Atef Shalan, Yiming Ji, Lei Chen College of Engineering and Computing, Georgia Southern University, Statesboro, Georgia, USA
- O. Comparative Analysis of Black Box Attacks in Information Security Jordan Stuckey, Atef Shalan, Yiming Ji, Lei Chen College of Engineering and Computing, Georgia Southern University, Statesboro, Georgia, USA
- O. Achieving Cyber Resilience in 5G-Enabled Microgrids Using Supervised Learning
 Kim K. Trabandt, Bryan Eidson, Preetha Thulasiraman
 University of Armed Forces, Munich, Germany;
 Naval Postgraduate School, Monterey, California, USA
 VIDEO: https://nps01-my.sharepoint.com/:v:/g/personal/pthulas1_nps_edu/EW-vdGlGgh1MkRpEsZuS55cB_XvbMvSmM9mY8f_L4K0j_A?e=ekb5X3
- O. Unlocking the Power of Machine Learning in Cybersecurity Forensics: Identifying Malicious Files
 Cemil Emre Yavas, Jiban Krisna Das, Bennett Akpomedaye, Lei Chen, and Yiming Ji
 Department of Information Technology, Georgia Southern University, Statesboro, Georgia, USA
- O. Blockchain based Auditing for Enhanced Cloud Security: A Systematic Review Khawla Shalabi, Mohammad Alnabhan, Mu'awya Al Dala'ien Department of Cybersecurity, King Hussein School of Computing Sciences, Prince Sumaya University for Technology, Jordan
- O. Robotics Process Automation in Cybersecurity Using Moveit Attack as a Case Study
 Helen Adesola, Lei Chen, Yiming Ji, Jongyeop Kim
 College of Engineering and Computing,
 Georgia Southern University, Statesboro, Georgia, USA
- O. Detecting Fake Accounts and Identifying Malicious URLs on Social Networks using Deep Learning
 Tasnim Akter Onisha, Nafeeul Alam Walee, Michael Fojude, Lei Chen, and Yiming Ji
 College of Engineering and Computing, Georgia Southern University, Statesboro, Georgia, USA
- O. Nature-inspired Optimization Algorithms for Enhancing Phishing Intrusion Detection in Cloud-Based Systems
 Kevin Ovabor, Travis Atkison
 The University of Alabama, Alabama, USA
- O. Challenges in Blockchain Securities: Key Management & Decentralized Identity System
 Olalekan Ola Adaramola, Chidozie Stanley Odigbo, Lei Chen,
 Jongyeop Kim, Yiming Ji
 Department of Information Technology, Georgia Southern University,
 Statesboro, Georgia, USA

The 22nd International Conference on Software Engineering Research & Practice (SERP'24: July 22-25, 2024; Las Vegas, USA) https://american-cse.org/csce2024/conferences-SERP

- O. A Novel Architecture that Examines Network Activity in a Docker-based Multitenant to Verify Zero Trust Container Architecture (ZTCA) Compliance Lethia Jackson, Haydar Teymourlouei, Daryl Stone, Velma Latson, Malik Cobbs, Jefry Jesus Ramos, Jamiu Olayinka, John Paja Department of Technology & Security, Bowie State University, Bowie, Maryland, USA
- O. Shifting Gears: A Systematic Literature Review of Process Model Transitioning in Software Engineering Aaron Trank, Clayton Asada, Muhammad Abdul Basit Ur Rahim Computer Engineering and Computer Science, California State University, Long Beach, California, USA