Tuesday	y, 4 April 2023
08:00-08:15	Sago Opening
08:15-09:15	Invited Speaker Valerie M. Cofield Chief Strategy Officer of the Cybersecurity and Infrastructure Security Agency (CISA)
09:15-10:15	Panel - Cybersecurity in Industry 4.0 and 5G Panel moderator: Arupjyoti (Arup) Bhuyan, INL Panel members: Wayne Austad, INL; Wes Withdrow, Verizon; Adam Suri, Nokia; Marty Groover, C5MI
10:15-10:45	Level 3 Coffee Area Coffee break
10:45-12:30	Cybersecurity in Industrial Applications Chairs: Abdullah Aydeger, Vuk Marojevic Utilising the capabilities of next-generation PLC controllers for ICSs protection from cyber threats Marko Slunjski, Damir Sumina An Intrusion Detection System Dataset for a Multi-Agent Cyber-Physical Conveyor System Gustavo Funchal, Farzana Zahid, Victória Melo, Matthew Kuo, Tiago Pedrosa, Roopak Sinha, Fernando De la Prieta, Paulo Leitao Informed Deep Learning for Anomaly Detection in Cyber-Physical Systems Victor Cobilean, Harindra Mavikumbure, Chathurika Wickramasinghe, Daniel Marino, Milos Manic A Deep Multi-Modal Cyber-Attack Detection in Industrial Control Systems Sepideh Bahadoripour, Hadis Karimipour, Ethan MacDonald Blockchain-based Electricity Market Agent-Based Modeling and Simulation Ameni Boumaiza Comparing Different Sequences of Pruning Algorithms for Hybrid Pruning Pragnesh Thaker Technology-enabled agriculture advancements Sachin Vishwakarma, Aartee Chimate, Dhananjay Salunke, Prasenjit Bhavathankar
	Cloud Computing, Big Data and Software Engineering Chairs: Nishan Mills, Carson Leung PlastOPol: A Collaborative Data-driven Solution for Marine Litter Detection and Monitoring Jincheng Liu, Di Wu, Christina Hellevik, Hao Wang ChatGPT and Generative Al Guidelines for Addressing Academic Integrity and Augmenting Pre-Existing Chatbots Daswin de Silva, Nishan Mills, Mona El-Ayoubi, Milos Manic, Damminda Alahakoon A Blockchain based Framework for Secure and Decentralized Energy

Tuesday, 4 April 2023

Trading in a Community Saurabh Sachdeva, Latif Fatehaj, Stefan Tan, Joel James, Oluwaseyi Ajayi, Tarek Saadawi

Building Manufacturing Deep Learning Models with Minimal and Imbalanced Training Data Using Domain Adaptation and Data

Augmentation Adrian Shuai Li, Elisa Bertino, Rih-Teng Wu, Ting-Yan Wu

Accelerated Geophysical Inversion for Airborne Transient

Electromagnetic Data Using GPU Nengyi Fu

Mining for Popular Trends from Big TED Talk Data Carson Leung
Mining big healthcare data to predict long COVID cases Carson Leung

Sago

IES Strategic Workshop VISION 2030

12:30-13:45

Citron

Lunch

13:45-15:30

Meyer

Industrial Automation, Communication and Networking

Chairs: Harsha Moraliyage, Sachin Kahawala

Reflection-based Prototyping Framework for OPC UA Servers for Companion Specifications Moritz Walker, Christian von Arnim, Michael Neubauer, Armin Lechler, Oliver Riedel, Alexander Verl

Virtual Cable: Beam-Direction Converter for IoT Communications inside a Motor Daisuke Kobuchi, Keisuke Manabe, Yuta Fuchigami, Yoshiaki Narusue, Hiroyuki Morikawa

Artificial Intelligence Data-Driven Petri nets Approach for Virtualizing Digital Twins Alexandre Oliveira Júnior, José Luis Calvo Rolle, Paulo Leitao Industry 4.0-compliant Digitalization of a Re-configurable and Flexible Laser Cutter Module within a Digital Factory Khedr Kanaan, Jeffrey Wermann, Martin Alejandro Bär, Armando Walter Colombo

Development of Electrical Cabinet Prototypes Based on Technology of Laminated Conductors Josipa Stegi r\hat{M}arija Odak, Igor Erceg, Damir Sumina, Elvedin Top \hat{O} v'

Sunburst

Power Systems and Smart Grids

Chairs: Sandy Atanalian

Local Energy Marketplace Agents-based Analysis Ameni Boumaiza Extended State Observer Based Distributed Composite Control Strategy for DC Microgrid Ruifang Zhang, Wensheng Luo, Sergio Vazquez, Ligang Wu, Leopoldo G Franquelo, Ping He

Intelligent Control of An Islanded Hybrid Microgrid mohammad khenar malek kkeili, Emad Samadaei, Camille-Laurie Normandeau, Jean-Nicolas Paquin, Kamal Al-Haddad

Modular Multilevel Converters for Fast Charging Stations of Electric Vehicles: An Overview Sandy Atanalian, Fadia Sebaaly, Rawad Zgheib, Kamal Al-Haddad

Developing Energy Analytics for Small Commercial Buildings *Robert Cox*

Convergence Analysis for Delay Dependent LFC Scheme for Power Systems Networks Over Open Communication Networks with Disturbances* Shafiqul Islam

Tuesday	, 4 April 2023
	Adaptive Sliding Mode Control for Interconnected Power Systems Networks with Disturbances* Shafiqul Islam
	Sago IES Strategic Workshop VISION 2030
15:30-16:00	Level 3 Coffee Area Coffee break
16:00-18:00	Meyer Student & Young Professionals SYP Event - Keynote speakers
	Dr. Fey Gao Title: Digital twins for modern power-electronics
	Dr. Subham Sahoo Title: Semantics-Aware Cybersecurity Prognosis and Diagnosis in Power Electronics
	Bobby F. Keener Title: Enabling Business, Helping People: Workforce Development for the Digital Age
	Work in Progress Chairs: Hui Zhang, Joao Pereira Pinto Guaranteed Quantization Error Computation for Neural Network Model Compression Wesley Cooke, Zihao Mo, Weiming Xiang Output Impedance Specification of A Three-Phase Current-Source Inverter for Modular Photovoltaic Applications Qilin PENG, Giovanni Migliazza, Giampaolo Buticchi, Sandro Guenter, Nadia Tan, Jiajun Yang, Patrick Wheeler Cloud-based Learning for Robot Control Shane Harrigan, Sonya Coleman, Dermot Kerr, Justin Quinn, Leeanne Lindsay, Kyle Madden Observer-based Model Predictive Control with Continuous Control Set for Single-phase Rectifiers Ahmad Dehghanzadeh, Rui Bo, Kamal Al- Haddad Smart AR workstation configuration in industrial assembly lines Abhaya Dhathri ARIGE, Marius Preda, Titus Zaharia Expanding the Frequency Range of 2nd Order Sinewave Oscillators with Composite Amplifiers Antonio Coelho, Jose Salvado, Antonio Espirito-Santo Voltage Balancing and Energy Sorting of 17L- ZPUC-Based Modular Multilevel Converter Sandy Atanalian, Fadia Sebaaly, Rawad Zgheib, Kamal Al-Haddad Vision Guided Drone Flight for Entering Confined Spaces for Inspection Sambit Bhattacharya, Catherine Spooner, Erik Wemlinger
	Sago IES Strategic Workshop VISION 2030

Tuesday	y, 4 April 2023
	Courtyard
	Welcome reception
Wednes	day, 5 April 2023
08:00-08:45	Invited speaker John Verboncoeur Professor, Department of Electrical and Computer Engineering; Department of Computational Mathematics, Science and Engineering; Associate Dean for Research, College of Engineering
08:45-09:45	Industry Forum - Artificial Intelligence Applications and Impacts Industry Talks Dr. Biao Zhang Sr. Principal Scientist, ABB US Research Center Title: AI for Industrial Robotics Tony Mongkolsmai Software Architect / Technical Evangelist, Intel USA Title: Making the Promise of AI Practical for Businesses Ludwig Sadredin Sahesch-Pur CEO, Founder, Airpur Heaven Communications Title: Why IT needs the global perspective of risks in industries and specially for individual engineers in a Society – 'Cyber' and other threats in a new
08:45-10:15	Sunburst Tutorial - Open Al Cellular (OAIC): An Open-Source Platform for Prototyping and Testing Al-Enabled ORAN for 5G/6G IloT Networks Vuk Marojevic, Minglong Zhang, Bo Tang, Vijay K. Shah
09:45-10:15	Sago IES Strategic Workshop VISION 2030
10:15-10:45	Level 3 Coffee Area Coffee break
10:45-12:30	Meyer Control Systems, Robotics and Mechatronics - I Chairs: Shane Harrigan, Chamod Samarajeewa Effects of wind noise on hybrid active noise cancellation headphones Takeru Watanabe, Seiji Kanai, Takenori Atsumi A Data-Driven Hybrid Automaton Framework to Modeling Complex Dynamical Systems Yejiang Yang, Zihao Mo, Weiming Xiang

Wednesday, 5 April 2023

Development of UAV Localization and Navigation Techniques for Warehouse Inventory Inspection Huei-Yung Lin, Yi-Hao Li Reinforcement learning of LQR control policy by a double inverted-pendulum biomechanical model Kamran Iqbal, Muhammad Haras KeyState: Improving Image-based Reinforcement Learning with Keypoint for Robot Control Ling-Chen Chen, Chi-Kai Ho, Chung-Ta King NTSM Based Finite-time Consensus Control for a Networked of Quadrotor Vehicles With Disturbances* Shafiqul Islam

Sunburst

Electrical Machines, Drives, Sensors and Actuators

Chairs: Seiichiro Katsura, Daswin De Silva

Analytical Modelling of a Hybrid Reluctance Motor Based on Magnetic Equivalent Circuit Xinyi Su, Xiaofeng Yang, Yunlang Xu

Smart Highways Based Vehicle Speed Sensor With Piezoelectric Energy Harvesting: A Progress Report Luay taha, Keven Rall, Kara Bailen, Elizabeth Bender, Hussein Abdeltawab, Sohail Anwar

Modelization and Identification of Feed Drive Axis in CNC Machine Tools Using Two-Mass Model and Particle Swarm Optimization Jing-Xiang Zhang, Syh-Shiuh Yeh

Support Vector Machine Aided Diagnosis of Concurrent Multiple Faults in Induction Motor Kenichi Yatsugi, Esakimuthu Pandarakone Shrinathan, Yukio Mizuno, Hisahide Nakamura

Development of Joint Actuators for Human-Friendly Manipulators with Low Inertia and Easy Assembly Kazuma Morikawa, Seiichiro Katsura Enhanced Power-Sharing Control Algorithm for Dual-Inverter-Fed Open-End-Winding Induction Motor in Hybrid Electric Vehicles Khaled Safsouf, Jean Sawma, Hadi Kanaan, Haitham Abu-Rub

An Analysis of Advanced Soft-Switching Techniques for DC–AC Power Converters Based on Auxiliary Circuits Kushan Lulbadda, Niranjan Shrestha, Ruvini De Seram, Sheldon Williamson, Tarlochan Sidhu

Sago

IES Strategic Workshop VISION 2030

12:30-13:45

Citron

Lunch

13:45-15:30

Meyer

Control Systems, Robotics and Mechatronics - II

Chairs: Daswin De Silva

Adaptable Simulation Environment for LED Streetlight Dimming Control System Marina Gapit, Vinko Leši rĤusam Shaheen

Model Predictive Control of Asynchronously Switched Systems with Exogenous Disturbances Tianyu Tan, Xinxin Shang, Liu Yang, Yang Shi Li-ion Battery Health State Estimation with Two Feed Forward Neural Networks Junghwan Lee

Structural loads reduction in wind turbines via set-based control *Ivan Grabic, Mario Vašak*

Radar and Infra-Red array Sensor Fusion in a Robotized Environment:
An Experimental Study Alberto Minora, Leonardo Costa, Denys
Tolochenko, Sanaz Kianoush, Vittorio Rampa, Stefano Savazzi

Wednesday, 5 April 2023

Distributed lidar based control for cooperative transportation with multiple autonomous mobile robots stefano mutti, Giovanni Dimauro NTSM Based Adaptive Finite-time Synchronization for Bilateral Teleoperators with Asymmetrical Delay and Disturbances Shafiqui Islam

<u>Sunburst</u>

Cybersecurity of Industry Applications powered by 5G's capability of massive machine type communications (mMTC)

Chairs: Sung Joon Maeng, Amitabh Mishra

SDR-Based 5G NR C-Band I/Q Monitoring and Surveillance in Urban Area Using a Helikite Sung Joon Maeng, Ismail Guvenc, Ozgur Ozdemir, Mihail Sichitiu, Magreth Mushi, Rudra Dutta, Monisha Ghosh

Adaptive Frequency Hopping for 5G New Radio mMTC Security Wai Ming Chan, Hyuck M. Kwon, Remi A. Chou, David J. Love, Sonia Fahmy, Syed Rafiul Hussain, Sang Wu Kim, Chris Vander Valk, Christopher G. Brinton, Vuk Marojevic, Khanh D. Pham, Taejoon Kim

Delay Optimal UAV Trajectory Planning for Secure Data Collection from Mobile IoT Networks AMIRAHMAD CHAPNEVIS, Eyuphan Bulut Distributed Power Allocation for 6-GHz Unlicensed Spectrum Sharing via Multi-agent Deep Reinforcement Learning Xiang Zhang, Arupjyoti (Arup) Bhuyan, Sneha Kumar Kasera, Mingyue Ji

O-RAN Perspective on Industrial Internet of Things: A SWOT Analysis Talha Rahman, Minglong Zhang, Vuk Marojevic

Energy-Efficient Secure Offloading for NOMA-Enabled Mobile-Edge Computing Yuan Zhou, Xiang Ma, Haijian Sun, Rose Qingyang Hu Bringing DNS Service to 5G Edge for Reduced Latencies in mMTC Applications Ricardo Harrilal Parchment, Diana Pineda, Kemal Akkaya, Alexander Perez-Pons, Abdullah Aydeger

Sago

IES Strategic Workshop VISION 2030

15:30-16:00

Level 3 Coffee Area

Coffee break

16:00-18:00

Mever

Al and Industrial Informatics

Chairs: Harsha Moraliyage, Victor Cobilean

Flexible Activation Bag: Learning Activation Functions in Autoencoder Networks Hendrik Klopries, Andreas Schwung

Utilization of ABC/XYZ analysis in retail sales forecasting using multivariate LSTM method Naomi Munitic, Mia Barzic, Luka Jelic, Vinko Lesic

A Hybrid Continual Learning Approach for Efficient Hierarchical Classification of IT Support Tickets in The Presence of Class Overlap Yasmen Wahba

Design and Implementation of Real-Time Fire Segmentation Algorithm on PYNQ Z2 FPGA Pratap Kygonahalli, Pranav Deshpande, Abhishek Hegde, Pranav Sasikumar, Akash Gupta, Payal Sharma, Manikandan J Multimodal camera for pedestrian detection with deep learning models Adam Dradrach, Jakub Konert, Jacek Ruminski

Wednesday, 5 April 2023

A Mixed Reality guidance system to assist the operator in the assembly process of complex products Gennaro Gemito, Adolfo Santoro Multi-objective Sustainable Supplier Selection and Order Allocation Model using Interval-Valued Intuitionistic Fuzzy AHP Ipek Eldem Smart intelligent system that can code like a human being Vedant Jolly, Rishabh Jain, Jaiwin Shah

Sunburst

Computational Intelligence and Signal and Image Processing

Chairs: Nishan Mills, Harindra Sandun Mavikumbure

Human Age Prediction Based on Brain MRI Using Density-Based Regression Ornela Bregu, NUHA ZAMZAMI, NIZAR BOUGUILA

Data Synthesizing for Specific Human Action Segmentation Xiaotian Lin, Leiyang Xu, Qiang Wang

Using Image Pre-processing To Improve Navigation Line Extraction Based On Pix2Pix Net On Small-size Datasets HAO ZHENG, QIANG WANG

Maximum Likelihood-Based Estimation of Finite Multivariate Libby-Novick Beta Mixture Models in Medical Applications Niloufar Samiee, Narges Manouchehri, Nizar Bouguila

3D Multi-Views Object Classification Based on a Fully Generalized Dirichlet Allocation Model Ahmed Yasser Eita, Hafsa Ennajari, Nizar Bouguila

Hybrid Building Occupancy Estimation using Thermal Imaging and Environmental Sensing Daniel Barros, António Miguel Rosado da Cruz, Sérgio Lopes

Improved YOLOv5 Network with CBAM for Object Detection Vision
Drone An Jinsu, Muhamad Dwisnanto Putro, Priadana Adri, Kanghyun Jo
Hyperspectral Image Classification using Spatial-Spectral
WaveletCNN Sarang Yogi, Aditya Wairkar, Aakash Sondagar

Sago

IES Strategic Workshop VISION 2030

19:00-21:30

Veranda

Dinner

Thursday, 6 April 2023

08:00-09:30

Sago

Panel - Towards future efficient, resilient, and decarbonized grid through effective building-to-grid integration

Panel moderator:

Jamie Lian . ORNL

Panel members:

Sen Huang, ORNL; Boming Liu, ORNL; Milos Manic, VCU

09:30-10:00

Level 3 Coffee Area

Coffee break

| 10:00-12:00

Thursday, 6 April 2023

<u>Meyer</u>

Power Electronics and Renewable Energy

Performance Improvement of Flexible Common Ground Flying Capacitor PV Inverter Using Model Predictive Control Margarita Norambuena, Guillermo Huerta, Mokhtar Aly, Fernanda Carnielutti, Jose Rodriguez

Development of a Smart Photovoltaic Cell Zoi Agorastou, Vasiliki Gogolou, Ioannis Mandourarakis, Nick Rigogiannis, Eftichios Koutroulis, Stylianos Siskos, Nick Papanikolaou

Alternative Feedback Quantizer Using Space Vector Modulation Matias Veillon, Eduardo Espinosa, Ricardo Lizana, Pedro Melín, Galina Mirzaeva, Marco Rivera, Neil Sepulveda

Staircase Modulation for Asymmetric Inverters with Minimum

WTHD Eduardo Espinosa, Matias Veillon, Pedro Melin, Carlos Baier, Jose Espinoza, J. C. Hernandez

A Novel Approach of Planar Transformer Configuration for Reducing Parasitic Capacitances and Enhancing Resonant Converters

Parameters Haitham Kanakri, Euzeli Cipriano Dos Santos, Jr., Maher Rizkalla

Design of a Four Windings Coupled Inductors for High Frequency Converters Applications Loïc Duong, Kamal Al-Haddad, Cédric Somers Parameters Design of Composite Resonant Circuit for outputting Dual Frequency Signals with Different Frequency Ratios qingfeng liu, zhaoxia leng

A Simple Control Algorithm to Reduce the DC Current Level in a CSI-UPQC Pedro Melin, Marcelo Reyes, Ruben Caro, Eduardo Espinosa, Carlos Baier, Jose Espinoza

Sunburst

Advances in Data-Driven Process Monitoring and Control for Intelligent Industrial Production Systems

Chairs: Rashmika Nawaratne, Chathurika S. Wickramasinghe

Dynamics Analysis of an Optimal Fourth-order Biparametric Jarratttype Method Wenshuo Li, Xiaofeng Wang

Feature extraction algorithm based on improved ORB with adaptive threshold \sAihua Zhang, Yuhao Li

Game-Based Adaptive Optimization Approach for Multi-Agent Systems Hao Wang, Zheyuan Ning, Hao Luo, Yuchen Jiang, Mingyi Huo Time-domain Frequency Estimation Approach for Intelligent Control Systems Mingyi Huo, Xinyu Qiao, Hao Wang, Yuchen Jiang, Hao Luo EMD-KPCA based Short Circuit Fault Diagnosis Method for Battery Pack Yucheng Qian, Han Lin

Real time enhancement of operator's ergonomics in physical human robot collaboration scenarios using a multi-stereo camera system *Gerasimos Arvanitis*, *NIKOS PIPERIGKOS*, *Christos*

system Gerasimos Arvanitis, NIKOS PIPERIGKOS, Christos Anagnostopoulos, Aris Lalos, Konstantinos Moustakas

Sago

Diversity & Inclusion

12:00-13:15

Citron

Lunch

13:15-15:00

Meyer

Thursday, 6 April 2023

Advanced Decision-Making, Control and Estimation Technologies for Intelligent Vehicles

Chairs: Hui Zhang, Dilantha Haputhanthrige

Vehicle State Classification from Drone Image *Youlkyeong Lee,* Seongmin Kim, Choi Jehwan, Kanghyun Jo

Attack-Resilience Distributed Model Predictive Control of Vehicular Platoon Systems using Moving Horizon Attack Estimation *Jicheng Chen, Hui Zhang, Zhi Qi*

Kalman Filter-based Adversarial Patch Attack Defense for Multi-object Tracking in Autonomous Driving Ru Yi, Jicheng Chen

System Identification and Decoupling Controller Design for Fuel Cell Hydrogen Injection System si long zhang, shaodong zhou, wenhao gan Analysis of Automatic Emergency Braking System Performance Insufficiency based on System Theory Process Analysis Jicheng Chen, Silong Zhang, Shaodong Zhou

Asymmetric Switching Angle Modulation for Cascaded Multilevel Power Inverters for Different Grid Support Functionalities SHUO WANG

Sensor Compliance Development for Smart Lift Safety Application based on IEEE 2668 Yang WEI, Kim Fung Tsang, Hao Wang

Sunburst

ICT enabled Healthcare

Chairs: Zhibo Pang, Gihan Gamage

An IoT Oriented Ontology for Physical World Awareness in Autonomous Objects Riccardo Brama, Helbert da Rocha

Encryption and Authentication in Smart Transducers Implemented in RISC-V Softcore Processors João Cassiano V. Fernandes, Helbert da Rocha, Antonio Espirito-Santo

Federated Learning in Healthcare Industry: Mammography Case Study Krystian Zieli G6¶Atalia Kowalczyk, Tomasz Kocejko, Magdalena Mazur-Milecka, Tomasz Neumann, Jacek Ruminski

Keeping Workers Safe in Electric Working: A Robot System for High-Voltage Live Operation Longqiang Wang, Ruohan Wang, Haiteng Wu, Geng Yang

A Machine Learning Approach for Prostate Cancer Diagnosis from Clinical Biomarkers and Personalized Questionnaires Moumen Elmelegy, Ahmed Mamdouh, Samia Abdel-Fattah, Mohamed Abo El-Ghaar, Ayman El-Baz

Digital Twin Empowered Anomaly Prediction for Data Protection in Health Monitoring System xinzheng Feng, Jun Wu, Wu Yang, Jianhua Li Circuit Design of Multimodal Attention Memristive Network for Affective Video Content Analysis Xiaoyue Ji, Zhekang Dong, Chun Sing Lai

Sago

Electronic Systems on Chip, Embedded Control and Nanotechnology

Chairs: Alkiviades Hatzopoulos

A Python Framework for System-on-Chip Power Integrity

Simulation Christina Panagiotopoulou, Anastasios Michailidis, Thomas Noulis, Kostas Siozios, Stylianos Siskos

Reconfigurable LNA with On-Line Fine-Tuning of Linearity and Gain

Thursday, 6 April 2023

for 5G Industrial Communications Applications Athanasios Stefanou, Vasilios Pavlidis, Alkiviadis Hatzopoulos

A PYNQ-based Data Acquisition System for HIL Simulations on low-cost FPGAs Thibaut Gravey, Karim Meddah, Téo Robert, Emmanuel Rutovic, Romain Monthéard, Tarek Ould-Bachir

Phone Pick-up Authentication: A Gesture-Based Smartphone Authentication Mechanism Dutliff Boshoff, Gerhard Hancke, Raphael Nkrow, Alexander Scriba

Denoising of photoplethysmograms for non-invasive blood glucose estimation via Slant transform based bit plane method Weizhi Guo, Bingo Ling, Yiting Wei

Systolic peak detection of photoplethysmograms via regularity approach Yiting Wei, Bingo Ling, Qing Liu, Jiaxin Liu

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Meddah, Karim		12	Pham, Khanh D.		8
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