

TIME (LONDON BST UTC +1)	Thu, 15 July 2021	Fri, 16 July 2021
12:00 PM - 1:00 PM	OPENING & NETWORKING	DAY 2 OPENING & YOGA/ MINDFULNESS SESSION
1:00 PM - 2:00 PM	KEYNOTE: JACK DONGARRA	KEYNOTE: NADIA MAGNENAT-THALMANN
2:00 PM - 2:30 PM	VIRTUAL ROUNDTABLES	VIRTUAL ROUNDTABLES
2:30 PM - 4:00 PM	SESSION 1: COMPUTING SESSION 2: DEEP LEARNING SESSION 3: DATA SCIENCE SESSION 4: SECURITY SESSION 5: SMART CITIES	SESSION 16: HUMAN COMPUTER INTERACTION SESSION 17: BLOCKCHAIN SESSION 18: MACHINE VISION SESSION 19: DIGITAL TRANSFORMATION SESSION 20: E-LEARNING
4:00 PM - 5:00 PM	KEYNOTE: STEPHEN GROSSBERG	TUTORIAL: HERMANN KAINDL
5:00 PM - 6:30 PM	SESSION 6: COMPUTING SESSION 7: DEEP LEARNING SESSION 8: DATA SCIENCE SESSION 9: SECURITY SESSION 10: SMART CITIES	SESSION 21: CLOUD COMPUTING SESSION 22: SMART HEALTHCARE SESSION 23: MACHINE VISION SESSION 24: ARTIFICIAL INTELLIGENCE SESSION 25: E-LEARNING
6:30 PM - 7:00 PM	VIRTUAL ROUNDTABLES	VIRTUAL ROUNDTABLES
7:00 PM - 8:30 PM	SESSION 11: COMPUTING SESSION 12: DEEP LEARNING SESSION 13: DATA SCIENCE SESSION 14: SECURITY SESSION 15: SMART HEALTHCARE	SESSION 26: AGENTS AND MULTI-AGENT SYSTEMS SESSION 27: NEURAL NETWORKS SESSION 28: COMMUNICATION SESSION 29: SOCIAL COMPUTING SESSION 30: NATURAL LANGUAGE PROCESSING
8:30 PM - 9:00 PM	VIRTUAL RADIO	CLOSING CEREMONY

SESSION 1: COMPUTING	SESSION 2: DEEP LEARNING	SESSION 3: DATA SCIENCE	SESSION 4: SECURITY	SESSION 5: SMART CITIES
276 - Computer Scientist's and Programmer's View on Quantum Algorithms (Presenter: Ilie-Daniel Gheorghe-Pop) 141 - Towards AGI: Cognitive Architecture based on Hybrid and Bionic Principles (Presenter: Roman Dushkin) 234 - DevOps for Open Source Multimedia Frameworks (Presenter: Juan Zhao) 452 - Computational Power of a Hybrid Algorithm for Solving the Multiple Knapsack Problem with Setup (Presenter: Mhand hifi) 255 - Multi-population Genetic Algorithm with the Actor Model Approach to Determine Optimal Braking Torques of the Articulated Vehicle (Presenter: Szymon Tengler) 295 - PDSA Computing (Presenter: Shuichi Fukuda) 92 - Solving High-dimensional Nonlinear Equations with Infinite Solutions by the SVM Visualization Method (Presenter: Jeng-Nan Tzeng) 282 - Analytical View on Noninvasive Measurement of Moving Charge by Various Topologies of Wannier Qubit (Presenter: Krzysztof Pomorski)	63 - Predicting the Product Life Cycle of Songs on the Radio (Presenter: Oliver Fuglsang Grooss) 471 - An Approach for Non- Deterministic and Automatic Detection of Learning Styles with Deep Belief Net (Presenter: Maxwell Ndognkon Manga) 480 - Depth Self-Optimized Learning Toward Data Science (Presenter: Ziqi Zhang) 175 - Optimizing the Neural Architecture of Reinforcement Learning Agents (Presenter: Ilya Trofimov) 70 - Using Machine Learning to Identify Methods Violating Immutability (Presenter: Tamás Borbély) 46 - Approaching Deep Convolutional Neural Network for Biometric Recognition based on Fingerprint Database (Presenter: Tanhim Islam) 293 - On the Use of a Sequential Deep Learning Scheme for Financial Fraud Detection (Presenter: Georgios Zioviris) 390 - A Systematic Review of Educational Data Mining (Presenter: ShaoJie Qu)	474 - The Challenges of Using Big Data in the Consumer Credit Sector (Presenter: Kirill Romanyuk) 448 - Mathematical Model to Support Decision-making to Ensure the Efficiency and Stability of Economic Development of the Republic of Kazakhstan (Presenter: Askar Boranbayev) 349 - Prediction Interval of Future Waiting Times of the Two-Parameter Exponential Distribution under Multiply Type II Censoring (Presenter: Shu-Fei Wu) 61 - Top of the Pops: A Novel Whitelist Generation Scheme for Data Exfiltration Detection (Presenter: Michael Cheng Yi Cho) 398 - Using Correlation and Network Analysis for Researching Intellectual Competence (Presenter: Yana Sipovskaya Ivanovna) 160 - Analysis of the Vegetation Index Dynamics on the Base of Fuzzy Time Series Model (Presenter: Fuad Salmanov) 113 - Result Prediction using Data Mining (Presenter: Hasan Sarwar)	220 - Incremental Dendritic Cell Algorithm for Intrusion Detection in Cyber-Physical Production Systems (Presenter: Rui Pinto) 96 - Security in Distributed Ledger Technology: An Analysis of Vulnerabilities and Attack Vectors (Presenter: Efthimios-Enias Gojka) 291 - TFHE Parameter Setup for Effective and Error-free Neural Network Prediction on Encrypted Data (Presenter: Jakub Klemsa) 251 - Performance Comparison between Deep Learning-based and Conventional Cryptographic Distinguishers (Presenter: Matteo Rossi) 260 - Towards Automated Surveillance: A Review of Intelligent Video Surveillance (Presenter: Romas Vijeikis) 5 - ARCSECURE: Centralized Hub for Securing a Network of IoT Devices (Presenter: Chamath Samarasekara) 466 - Improving the Imperceptibility of Pixel Value Difference and LSB Substitution based Steganography using Modulo Encoding (Presenter: Ahmad Azkiyai) 436 - Effectiveness and Adoption of NIST Managerial Practices for Cyber Resilience in Italy (Presenter: Giulia Palombi)	88 - MQTT based Power Consumption Monitoring with Usage Pattern Visualization using Uniform Manifold Approximation and Projection for Smart Buildings (Presenter: Raymark C. Parocha) 102 - A Deep Convolutional Neural Network Approach for Plant Leaf Segmentation and Disease Classification in Smart Agriculture (Presenter: Rachid Lghoul) 120 - Deepened Development of Industrial Structure Optimization and Industrial Integration of China's Digital Music under 5G Network Technology (Presenter: Yukun Li) 311 - LoRa RSSI based Outdoor Localization in an Urban Area using Random Neural Networks (Presenter: Winfred Ingabire) 110 - Low-cost Digital Twin Framework for 3D Modeling of Homogenous Urban Zones (Presenter: Emad Felemban) 203 - Medium Resolution Satellite Image Classification System for Land Cover Mapping in Nigeria (Presenter: Nzurumike L. Obianuju) 239 - Optimal Solution of Transportation Problem with Effective Approach Mount Order Method: An Operational Research Tool (Presenter: Mohammad Rashid Hussain) 456 - Street Owl. A Mobile App to Reduce Car Accidents (Presenter: Bahjat Fakieh)

SESSION 6: COMPUTING	SESSION 7: DEEP LEARNING	SESSION 8: DATA SCIENCE	SESSION 9: SECURITY	SESSION 10: SMART CITIES
74 - Scaling out Transformer Models for Retrosynthesis on Supercomputers (Presenter: Joris Mollinga) 374 - The Design of Customizable Distributed Algorithms for InDiGO Framework (Presenter: Valeriy Kolesnikov) 473 - A Novel GPU Implementation for Image Stripe Noise Removal (Presenter: Pasquale De Luca) 381 - Resolution of the Frobenius Problem with an Adiabatic Quantum Computer (Presenter: Jose Maria Tornero, J. Ossorio- Castillo) 87 - Designing a Cost-Efficient Network for a Small Enterprise (Presenter: Fahimeh Jafari) 241 - Staff Rostering Optimization: Ideal Recommendations vs. Real- world Computing Challenges (Presenter: Jari Kyngäs) 484 - A Layered Framework for Dealing with Dilemmas in Artificial Intelligence Systems (Presenter: Jim Q. Chen)	432 - Accelerating Deep Convolutional Neural on GPGPU (Presenter: Marcin Pietron) 176 - Automatic Ensemble of Deep Learning using KNN and GA Approaches (Presenter: Ben Zagagy) 259 - DeepObfusCode: Source Code Obfuscation through Sequence-to-Sequence Networks (Presenter: Siddhartha Datta) 257 - A Deep Learning Model for Data Synopses Management in Pervasive Computing Applications (Presenter: Panagiotis Fountas) 284 - A Novel Model for Enhancing Fact-checking (Presenter: Fatima T. AlKhawaldeh) 372 - Evolutionary Computation Approach for Spatial Workload Balancing (Presenter: Ahmed Abubahia) 320 - Hierarchical Roofline Performance Analysis for Deep Learning Applications (Presenter: Charlene Yang) 406 - Predicting Resource Usage in Edge Computing Infrastructures with CNN and a Hybrid Bayesian Particle Swarm Hyper-Parameter Optimization Model (Presenter: John Violos)	89 - Development of an Oceanographic Databank based on Ontological Interactive Documents (Presenter: Maryna Popova) 357 - GeoTree: A Data Structure for Constant Time Geospatial Search Enabling a Real-time Property Index (Presenter: Robert Miller) 358 - Application of Data-driven Fault Diagnosis Design Techniques to a Wind Turbine Test-rig (Presenter: Silvio Simani) 332 - Data Segmentation via t- SNE, DBSCAN, and Random Forest (Presenter: Timothy DeLise) 313 - A New Proposal of Parametric Similarity Measures with Application in Decision Making (Presenter: Luca Anzilli) 1 - Automated Data Processing of Bank Statements for Cash Balance Forecasting (Presenter: Vlad- Marius Griguta) 51 - Predictive Models as Early Warning Systems: A Bayesian Classification Model to Identify At- risk Students of Programming (Presenter: Veerasamy Ashok Kumar) 131 - Balanced Weighted Label Propagation (Presenter: Matin Pirouz)	250 - Application of Machine Learning in Cryptanalysis Concerning Algorithms from Symmetric Cryptography (Presenter: Milena Gjorgjievska Perusheska) 15 - Cybercrime in the Context of COVID-19 (Presenter: Mohamed Chawki) 204 - Authentication Mechanisms and Classification: A Literature Survey (Presenter: Milen Petrov) 205 - Beware of Unknown Areas to Notify Adversaries: Detecting Dynamic Binary Instrumentation Runtimes with Low-level Memory Scanning (Presenter: Federico Palmaro, Luisa Franchina) 319 - Homicide Prediction using Sequential Features from Graph Signal Processing (Presenter: Juan Moreno) 437 - Secondary Use Prevention in Large-Scale Data Lakes (Presenter: Shizra Sultan) 218 - A Security Requirement Engineering Case Study: Challenges and Lessons Learned (Presenter: Ilham Maskani) 32 - Elliptic Curves of Nearly Prime Order (Presenter: Manoj Gyawali)	327 - Autonomous Vehicle Decision Making & Urban Infrastructure Optimization (Presenter: George Mudrak) 105 - Smart Helmet: An Experimental Helmet Security Addon (Presenter: Paulo Fazendeiro) 18 - Prediction of Road Congestion Through Application of Neural Networks and Correlative Algorithm to V2V Communication (NN-CA-V2V) (Presenter: Mahmoud Iskandarani) 453 - Urban Planning to Prevent Pandemics: Urban Design Implications of BiocyberSecurity (BCS) (Presenter: Lucas Potter) 38 - A Smart City Hub based on 5G to Revitalize Assets of the Electrical Infrastructure (Presenter: Santiago Gil) 109 - Analysis of Improved User Experience when using AR in Public Spaces (Presenter: Vladimir Souza) 376 - VR in Heritage Documentation (Presenter: Wael Abdelhameed) 366 - Analysis of Prediction and Clustering of Electricity Consumption in the Province of Imbabura-Ecuador for the Planning of Energy Resources (Presenter: Jhonatan F. Rosero-Garcia)

106 - An Array Abstraction to Amortize Reasoning About Parallel Cient Code (Presenter: Deep Neural Networks without SARM Cache (Presenter: Eugen Tam) 367 - Cell Assembly-Based Task Analysis (CAbTA) (Presenter: Eugen Chris Huyck) 288 - Naming Processes in Multichannels with Beeps in the Code (Presenter: Sular) Multichannels with Beeps in the Code (Presenter: Sular) Multichannels with Beeps in the Contiguous Resource Allocation for Next - Generation Wireless Systems (Presenter: Sular) 104 - An Iterative Randomized Rounding Algorithm for the k-Clustering Minimum Completion Problem with an Application in Telecommunication Field (Presenter: Sular) 105 - Study of Residual Networks for Vicison and So Woven Composites Truss Structures during Influsion (Presenter: Luis David Licea for Parallel Computation of Symbolic Surpressions via Remote Evaluation on NPI Systems (Presenter: Learning for Task Planning of Approaches) 429 - Parallel Accurate and Remondouldy, Marter Marthiel (Presenter: Cupen Study of Residual Networks for Reproducible Summation (Presenter: Caio Souza) 105 - Distributed Evolution of Deep Autoencoders (Presenter: Sular) 106 - Analysing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 107 - Analysing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 108 - Analysing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 109 - Analyzing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 109 - Analyzing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 106 - Constructive Resource Allocation (Presenter: Sulars) 107 - Analyzing Societal Bias of Calfornia Police Stops Through Leans of Data Science (Presenter: Sulars) 108 - Security Avereness using Cyber Society Wavereness using Small Institutions Cyber Society Wavereness using and Institutions Cyber Society Wavereness using Small Institutions Cyber Societ	SESSION 11: COMPUTING	SESSION 12: DEEP LEARNING	SESSION 13: DATA SCIENCE	SESSION 14: SECURITY	SESSION 15: SMART HEALTHCARE
(Presenter: Vianney Muñoz- Jimenez)	Amortize Reasoning About Parallel Client Code (Presenter: Alan Weide) 367 - Cell Assembly-Based Task Analysis (CAbTA) (Presenter: Chris Huyck) 285 - Naming Processes in Multichannels with Beeps in the Weak Model (Presenter: Layla S. Aldawsari) 104 - An Iterative Randomized Rounding Algorithm for the k- Clustering Minimum Completion Problem with an Application in Telecommunication Field (Presenter: Shohre Sadeghsa) 206 - Computational Optimization of Voids on 3D Woven Composites Truss Structures during Infusion (Presenter: Spiridon Koutsonas) 62 - Orca: A Software Library for Parallel Computation of Symbolic Expressions via Remote Evaluation on MPI Systems (Presenter: Ahmet Artu Yıldırım) 94 - Parallel Accurate and Reproducible Summation (Presenter: Farah Benmouhoub, Martel Matthieu) 391 - Distributed Evolution of Deep Autoencoders (Presenter:	Deep Neural Networks without SRAM Cache (Presenter: Eugene Tam) 472 - Enduring Questions, Innovative Technologies: Educational Theories Interface with AI (Presenter: Rosemary Papa, Karen Moran Jackson) 273 - Deep-Reinforcement-Learning-based Scheduling with Contiguous Resource Allocation for Next-Generation Wireless Systems (Presenter: Shu Sun) 375 - Investigating Learning in Deep Neural Networks using Layer-wise Weight Change (Presenter: Atharva Tendle) 16 - Study of Residual Networks for Image Recognition (Presenter: Mohammad Sadegh Ebrahimi) 148 - Data Augmentation for Short-term Time Series Prediction with Deep Learning (Presenter: Hugo Tito-Chura) 395 - Deep Reinforcement Learning for Task Planning of Virtual Characters (Presenter: Caio Souza) 163 - Image Classification with A-MnasNet and R-MnasNet on NXP Bluebox 2.0 (Presenter: Prasham	Popularity (Presenter: Salem Othman) 169 - Analyzing Societal Bias of California Police Stops Through Lens of Data Science (Presenter: Sukanya Manna) 26 - Impact of Types of Change on Software Defect Prediction (Presenter: Atakan Erdem) 310 - Youden's J and the Bi Error Method (Presenter: MaryLena Bleile) 208 - A Disease Similarity Technique using Biological Process Functional Annotations (Presenter: Luis David Licea Torres) 85 - Analyzing Co-occurrence Networks of Emojis on Twitter (Presenter: Salem Othman) 328 - Automated Metadata Harmonization using Entity Resolution and Contextual Embedding (Presenter: Kunal Sawarkar, Meenakshi Kodati) 150 - A Systematic Literature Review on Big Data Extraction, Transformation and Loading (ETL) (Presenter: Joshua C.	Cryptography Engine in Distributed-Memory (Presenter: Christopher Philabaum) 211 - Assessing Small Institutions' Cyber Security Awareness using Human Aspects of Information Security Questionnaire (HAIS-Q) (Presenter: Glenn Papp) 269 - Construction of Differentially Private Empirical Distributions from a Low-order Marginals Set through Solving Linear Equations with I2 Regularization (Presenter: Fang Liu) 60 - Locating the Perpetrator: Industry Perspectives of Cellebrite Education and Roles of GIS Data in Cybersecurity and Digital Forensics (Presenter: Denise Dragos) 41 - Tamper Sensitive Ternary ReRAM-based PUFs (Presenter: Bertrand Cambou) 40 - An Analysis of Twitter Security and Privacy using Memory Forensics (Presenter: Ahmad Ghafarian) 469 - Securing Mobile Systems GPS and Camera Functions Using TrustZone Framework (Presenter: Ammar S. Salman) 449 - Steganographic Method to Data Hiding in RGB Images using Pixels Redistribution Combining Fractal-based Coding and DWT (Presenter: Vianney Muñoz-	Monitoring Model (Presenter: Ella Pereira) 130 - Biostatistics in Biomedicine and Informatics (Presenter: Esther Pearson) 86 - Effect of Adaptive Histogram Equalization of Orthopedic Radiograph Images on the Accuracy of Implant Delineation using Active Contours (Presenter: Adam Piorkowski) 28 - Automatic Detection and Segmentation of Liver Tumors in Computed Tomography Images: Methods and Limitations (Presenter: Odai S. Salman) 210 - Feature Analysis for Aphasic or Abnormal Language Caused by Injury (Presenter: Aurelio Lopez-Lopez) 124 - IoT for Diabetics: A User Perspective (Presenter: Moutaz Haddara) 289 - Case Study: UML Framework of Obesity Control Health Information System (Presenter: Majed Alkhusaili) 280 - Identification Diseases using Apriori Algorithm on DevOps (Presenter: Aya

SESSION 16: HUMAN COMPUTER INTERACTION	SESSION 17: BLOCKCHAIN	SESSION 18: MACHINE VISION	SESSION 19: DIGITAL TRANSFORMATION	SESSION 20: E-LEARNING
2 - Application of Robotics to	59 - Blockchain Smart Contracts	185 - MQTT based Appliance	209 - The Impact of Agile Methods	132 - Embodied Learning:
Domestic and Environmental	Static Analysis for Software	Control and Automation with	and "DevOps" on Day 2+	Capitalizing on Predictive
Cleanup Tasks (Presenter: lan D.	Assurance (Presenter: Suzanna	Room Occupancy Monitoring	Operations for Large Enterprises	Processing (Presenter: Susana
Walker)	Schmeelk)	using YOLO (Presenter: Erees	(Presenter: R. Cherinka)	Sanchez)
57 - Gamification in a Learning	396 - Committee Selection in	Queen B. Macabebe)	17 - Explainable Graph-based	303 - Augmented Reality in Virtual
Resource for the Study of	DAG Distributed Ledgers and	190 - Development of an	Search for Lessons-learned	Classroom for Higher Education
Human Computer Interaction	Applications (Presenter: Bartosz	Automatic Document to Digital	Documents in the Semiconductor	during COVID-19 Pandemic
(Presenter: Dawn Carmichael)	Kusmierz)	Record Association Feature for a	Industry (Presenter: Hasan Abu	(Presenter: Priyaadharshini M)
		Cloud-based Accounting	Rasheed)	5, 6,
433 - Humans Digital Avatar	55 - CreditX: A Decentralized and	Information System (Presenter:		56 - Cognitive Load of Ontology as
Reconstruction for Tactical	Secure Credit Platform for Higher	Daniel S. Jabonete)	314 - Machine Learning Application	a Means of Information
Situations Animation (Presenter:	Educational Institutes based on		in LAPIS Agile Software	Representation in the Educational
Ilya Zuev)	Blockchain Technology (Presenter:	48 - Guided Filter Bank	Development Process (Presenter:	Process (Presenter: Maryna Popova)
172 - Machine Learning Control	Romesh Liyanage)	(Presenter: Hui Yin)	Nurdan Canba)	324 - Development and Design of a
for Mobile Robot by	115 - An Architecture for	277 - High-speed Multi-person	476 - Mapping Risk Assessment	Library Information System Intended
Approximation Extremals by	Blockchain-based Cloud Banking	Tracking Method using Bipartite	Strategy for COVID-19 Mobile	for Automation of Processes in
Symbolic Regression (Presenter:	(Presenter: Thuat Do)	Matching (Presenter: Alexander	Apps' Vulnerabilities (Presenter:	Higher Education Institution
Askhat Diveev)	394 - A Robust and Efficient	Khelvas)	Masooda Bashir)	(Presenter: Askar Boranbayev)
330 - Action Recognition in	Micropayment Infrastructure	413 - Hierarchical Feature	470 - Factors Influencing the	123 - The Influence of Computer
Handball Scenes (Presenter:	using Blockchain for e-Commerce	Generating Network for Zero-	Adoption of Online Banking in	Games on High School Students
Marina Ivasic-Kos)	(Presenter: Soumaya Bel haj	Shot Learning by Knowledge	South Africa: An UTAUT Study	(Presenter: Andrija Bernik)
164 - RF Mapping for Sensor	Youssef)	Graph (Presenter: Yi Zhang)	(Presenter: Mathias Mujinga)	34 - Accrediting Artificial
Nodes Connectivity and	195 - An Exploration of Blockchain	402 - Learning Action	457 - Transforming HR and	Intelligence Programs from the
Communication Signal Recovery	in Social Networking Applications	Correlation and Temporal	Improving Talent Profiling with	Omani and the International ABET
(Presenter: Mustafa Ayad)	(Presenter: Rituparna	Aggregation for Group	Qualitative Analysis Digitalization	Perspectives (Presenter: Osama A.
•	Bhattacharya)	Representation (Presenter:	on Candidates for Career and	Marzouk)
315 - Towards Synchronous	, ,	Haoting Wang)	Team Development Efforts	225 Incomo in a Student
Model of Non-Emotional	268 - Promize - Blockchain and		(Presenter: Ari Happonen)	325 - Improving Student
Conversational Gesture	Self Sovereign Identity	412 - Self-adaptive Perception		Engagement and Active Learning with Embedded Automated Self-
Generation in Humanoids	Empowered Mobile ATM Platform	Model for Action Segment	355 - Consumer-Oriented Web of	Assessment Quizzes (Presenter:
(Presenter: Aditi Singh)	(Presenter: Eranga Bandara)	Detection (Presenter: Jiahe Li)	Things Solution for Competitive	Ryan M. Gibson)
27 - DBA-Filter: A Dynamic	71 - Real and Virtual Token		Swimmers (Presenter: Rusho Yonit)	Tryan in Cibboni
Background Activity Noise	Economy Applied to Games: A		333 - Improving the Efficiency of	378 - Pedagogical Approaches in
Filtering Algorithm for Event	Comparative Study between		Industrial Enterprise Management	Computational Thinking-Integrated
Cameras (Presenter: Sherif	Cryptocurrencies (Presenter:		based on the Forge Software-	STEAM Learning Settings
Mohamed)	Isabela Ruiz Roque da Silva)		Analytical Platform (Presenter:	(Presenter: Ashok Kumar
	,		Arsen Ivanyan)	Veerasamy)

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SESSION 21: CLOUD COMPUTING	SESSION 22: SMART HEALTHCARE	SESSION 23: MACHINE VISION	SESSION 24: ARTIFICIAL INTELLIGENCE	SESSION 25: E-LEARNING
30 - Robustness Comparison of Scheduling Algorithms in MapReduce Framework (Presenter: Jim Q. Chen) 461 - Cyber Security in Cloud: Risk Assessment Models (Presenter: Carlos Bendicho) 155 - Developing a Framework of Critical Factors Affecting the Adoption of Cloud Computing in Government Systems (ACCE-GOV) (Presenter: Naif Al Mudawi) 7 - In-place VM Migration for Fast Update of Hypervisor Stack (Presenter: Pavel Tatashin) 6 - Seamless Update of a Hypervisor Stack (Presenter: Pavel Tatashin)	288 - Towards Collecting Big Data for Remote Photoplethysmography (Presenter: Mikhail Petrushan) 270 - Data Security in Health Systems: Case of Cameroon (Presenter: Igor Godefroy Kouam Kamdem) 422 - Framework for a DLT based COVID-19 Passport (Presenter: Michael Clear) 440 - Towards the Localisation of Lesions in Diabetic Retinopathy (Presenter: Samuel Ofosu Mensah) 8 - HEMAYAH: A Proposed Mobile Application System for Tracking and Preventing COVID-19 Outbreaks in Saudi Arabia (Presenter: Reem Alwashmi) 66 - Predicting Levels of Depression and Anxiety in People with Neurodegenerative Memory Complaints Presenting with Confounding Symptoms (Presenter: Dalia Attas) 299 - Towards Digital Twins Driven Breast Cancer Detection (Presenter: Safa Meraghni)	441 - Comparing Partitions: Metric Characterizations, Mean Partition, and Distortion (Presenter: Estefano Reyes) 477 - Self-exciting Point Processes with Image Features as Covariates for Robbery Modeling (Presenter: Mateo Dulce Rubio) 450 - A Preliminary Comparison Between Compressive Sampling and Anisotropic Mesh-based Image Representation (Presenter: Xianping Li) 50 - Web-based Learning for Cultural Adaptation: Constructing a Digital Portal for Persian Speaking Immigrants in Finland (Presenter: Zahra Hosseini) 416 - Enhanced Reinforcement Learning Model for Extraction of Objects in Complex Imaging (Presenter: Usman Ahmad Usmani) 415 - Improving Accuracy and Latency in Image Re-Identification by Gallery Database Cleansing (Presenter: Niall O' Mahony) 309 - Modular Image Synthesizer for Annotated Test Sets on Incremental Parameter Fields (Presenter: Benny Platte) 219 - Real-time Crack Detection using ROV (Presenter: Haythem El-Messiry)	Fireworks Algorithm to Guard Orthogonal Polygons (Presenter: Adis Alihodzic, Bosnia and Herzegovina) 166 - Artificial Intelligence Against Climate Change (Presenter: Leila Scola) 80 - Accelerating Road Sign Ground Truth Construction with Knowledge Graph and Machine Learning (Presenter: Ji Eun Kim) 114 - Construction Site Layout Planning using Multiple-level Simulated Annealing (Presenter: Hui Jiang, YaBo Miao) 331 - Entropy based Feature Pooling in Speech Command Classification (Presenter: Christoforos Nalmpantis) 297 - Unsupervised Machine Learning-based Elephant and Mice Flow Identification (Presenter: Muna Al-Saadi) 407 - Automated Generation of Zigzag Carbon Nanotube Models Containing Haeckelite Defects (Presenter: Roberto Rozas) 481 - Epistocracy Algorithm: A Novel Hyper-Heuristic Optimization Strategy for Solving Complex Optimization Problems (Presenter: Seyed Ziae Mousavi Mojab)	of the Untyped Lambda Calculus through Web-based e-Learning Tools (Presenter: Levis Zerpa) 78 - Tips for using Open Educational Resources to Reduce Textbook Costs in Computing and IT Courses (Presenter: Richard Halstead-Nussloch, Rebecca Rutherfoord) 121 - The Impact of Computer Games on Preschool Children's Cognitive Skills (Presenter: Dolores Kamenar Cokor) 202 - Exploring the Darkness of Gamification: You Want it Darker? (Presenter: Tobias Nystrom) 122 - Informally Teaching Black Youth STEM Concepts Virtually using Artificial Intelligence and Machine Learning (Presenter: Darron Lamkin) 117 - The Future of Information and Communication Technology Courses (Presenter: Leila Goosen) 455 - Using STEM to Improve Computer Programming Teaching (Presenter: Manuel Rodrigues) 446 - Development of Anaglyph 3D Functionality for Cost-Effective Virtual Reality Anatomical Education (Presenter: Alex J. Deakyne)