



EECSS 2025

Proceedings of the 11th World Congress on Electrical Engineering and Computer Systems and Science (EECSS 2025)

August 17 - 19, 2025 | Paris, France

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 11th World Congress on Electrical Engineering and Computer Systems and Science (EECSS 2025).

EECSS is aimed to become one of the leading international annual congresses in the fields of electrical engineering and computer systems and science. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

We thank you fAt the eleventh edition of this conference, six Plenary Speakers and five Keynote Speakers will share their insights, aiming to expose participants to to a wide spectrum of applications, and to foster crosspollination of ideas and develop new research interests. In addition, around 100 papers will be presented by professors, students, and researchers from around the globe.

or your participation and contribution to the 11th World Congress on Electrical Engineering and Computer Systems and Science (EECSS 2025). We wish you a very successful and enjoyable experience.

Dr. Luigi Benedicenti

*Congress Chair and Proceedings Editor
EECSS 2025*

Dr. Zheng Liu

*Congress Co-Chair and Proceedings Editor
EECSS 2025*

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ABOUT EECSS 2025

EECSS is aimed to become one of the leading international annual congresses in the fields of electrical engineering and computer systems and science. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 5 conferences included in the EECSS Congress:

CIST 2025 - 10th International Conference on Computer and Information Science and Technology

MHCI 2025 - 12th International Conference on Computer and Information Science and Technology

MVML 2025 - 11th International Conference on Machine Vision and Machine Learning

ICBES 2025 - 12th International Conference on Biomedical Engineering and Systems

EEE 2025 - 11th International Conference on Electrical Engineering and Electronics

While each conference consists of an individual and separate theme, the 5 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

EECSS is an acronym for **Electrical, Engineering and Computer Systems and Science** .

- The proceedings is published in Ottawa, Canada.
- All papers were peer-reviewed
- The congress proceedings is published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by [Crossref](#)
- The conference proceedings are indexed by [Scopus](#) and [Google Scholar](#)
- The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

Scopus

Google Scholar

Crossref

PORTICO

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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the EECSS 2025 Congress:



Dr. Luigi Benedicenti
University of New Brunswick,
Canada
Congress Chair



Dr. Zheng Liu
University of British Columbia,
Canada
Congress Co-Chair

Scientific Committee Members for CIST 2025

- **Dr. José Carlos R. Alcantud**, University of Salamanca, France
- **Dr. Aparicio Carranza**, New York City College of Technology, USA
- **Dr. Luca Deri**, University of Pisa, Italy
- **Dr. Abdel Aziz Farrag (RET)**, Dalhousie University, Canada
- **Dr. Sanmeet Kaur**, Eastern Washington University, USA
- **Dr. Michael N. Vrahatis**, University of Patras, Greece
- **Dr. Neli Zlatareva**, Central Connecticut State University, USA

Scientific Committee Members for MHCI 2025

- **Dr. Zoran Bojkovic**, University of Belgrade, Serbia
- **Dr. Nam Ju Kim**, University of Miami, USA
- **Dr. Dheerendra Mishra**, Maulana Azad National Institute of Technology, India
- **Dr. Hai Long Tran**, DePaul University, USA
- **Dr. Kazuhisa Yanaka**, Kanagawa Institute of Technology, Japan

SCIENTIFIC COMMITTEE

Scientific Committee Members for MVML 2025

- **Dr. Chamil Abeykoon**, The University of Manchester, UK
- **Dr. Jinzhu Gao**, University of the Pacific, USA
- **Dr. Natacha Gueorguieva**, University of Massachusetts Dartmouth, USA
- **Dr. Dalila B. Megherbi**, University of Massachusetts Lowell, USA
- **Dr. Kashif Naseer Qureshi**, University of Limerick, Ireland
- **Dr. KC Santosh**, University of South Dakota, USA
- **Dr. Jacek M. Zurada**, The University of Louisville, USA

Scientific Committee Members for ICBES 2025

- **Dr. Gabriele Candiani**, Politecnico di Milano, Italy
- **Dr. Jordi Fonollosa**, Universitat Politècnica de Catalunya, France
- **Dr. Elba Mauriz García**, University of León, France
- **Dr. Peter Kneppo**, Czech Technical University, Czech Republic
- **Dr. Ivan T. Lima**, North Dakota State University, USA
- **Dr. Mehrab Mehrvar**, Toronto Metropolitan University, Canada
- **Dr. Michele Oliver**, University of Guelph, Canada

Scientific Committee Members for EEE 2025

- **Dr. Pantelis Capros**, National Technical University of Athens, Greece
- **Dr. Valentina Ciriani**, University of Milan, Italy
- **Dr. Riccardo Colella**, National Research Council (CNR), Italy
- **Dr. Edmond Cretu**, University of British Columbia, Canada
- **Dr. Zhirun Hu**, The University of Manchester, UK
- **Dr. Michał Jasiński Wrocław**, Univeristy of Science and Technology, Poland

PLENARY AND KEYNOTE SPEAKERS

The Plenary & keynote information for the 11th World Congress on Electrical Engineering and Computer Systems and Science (EECSS 2025) is as follows:

Plenary Speakers



Dr. Yang Dai
Technical University of Munich,
Germany
ICBES 2025 Plenary Speakers



Dr. Tobias Nipkow
University of Illinois Chicago,
USA
CIST 2025 Plenary Speaker



Dr. Carolyn Penstein Rose
Carnegie Mellon University,
USA
CIST 2025 Plenary Speaker



Dr. KC Santosh
University of South Dakota, USA
MVML 2025 Plenary Speaker



Dr. Martin Storath
Technical University of Applied
Sciences Würzburg-Schweinfurt,
Germany
MVML 2025 Plenary Speaker



Dr. Ouri Wolfson
University of Illinois at Chicago,
USA
CIST 2025 Plenary Speaker

PLENARY AND KEYNOTE SPEAKERS

Keynote Speakers



Dr. Matiar Howlader
McMaster University, Canada
EEE 2025 Keynote Speaker

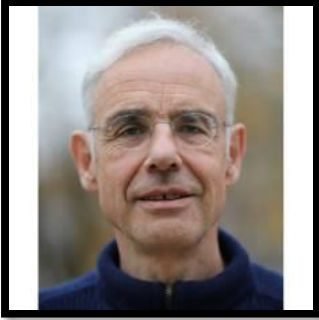


Dr. Kunal Mankodiya
University of Rhode Island, USA
ICBES 2025 Keynote Speaker



Dr. Dalila B. Megherbi
University of Manchester, UK
MHCI 2025 Keynote Speaker

CIST PLENARY SPEAKER



Titles: N/A

Dr. Tobias Nipkow, Technical University of Munich, Germany

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Prof. Nipkow (*1958) works in the area of logic in computer science. He focuses on interactive and automatic theorem proving, programming language semantics, type systems and functional programming. His chair is developing the interactive proof assistant Isabelle. Prof. Nipkow received his Diplom (MSc) in Informatik from the Technische Hochschule Darmstadt in 1982 and his PhD from the University of Manchester in 1987. Having held research positions at MIT (1987-1989) and Cambridge University (1989-1992), he was appointed Professor for the Theory of Programming at TUM in 1992. Since 2011 he has held the chair of Logic and Verification at TUM.

CIST PLENARY SPEAKER



Titles: Sociotechnical Artificial Intelligence:
Exploring Human-AI Complementarity in Multi-
Agent Team Environments

**Dr. Carolyn Penstein Rose, Carnegie Mellon University,
USA**

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Dr. Carolyn Rosé is the Kavčič-Moura Professor of Language Technologies and Human-Computer Interaction in the School of Computer Science at Carnegie Mellon, and Program Director for the Masters of Computational Data Science Program. Her research program explores interactive and explainable Sociotechnical Artificial Intelligence from a highly interdisciplinary perspective. Her 3+ decades long career has aimed to develop technology to positively impact human learning. Her team's research, published in over 330 peer reviewed publications, pushes the frontier of learnability and generalizability through deeply data focused explorations of inductive biases. Her work develops and explores novel representations and architectural elements using a problem-driven approach motivated by error analysis and exploratory data analysis, with a current emphasis on abstraction and decomposition, which are arguably two of the greatest challenges for LLMs. She investigates these issues across multiple problem areas including multimodal conversational process analysis, multimodal document understanding, clinical text processing, knowledge based question answering, and language models of code. She is a Past President and Inaugural Fellow of the International Society of the Learning Sciences, Senior member of IEEE, Founding Chair of the International Alliance to Advance Learning in the Digital Era, and Executive Editor (formerly Co-Editor-in-Chief) of the International Journal of Computer-Supported Collaborative Learning. She also serves as a 2020-2021 AAAS Leshner Leadership Institute Fellow for Public Engagement with Science, with a focus on public engagement with Artificial Intelligence. This year she is serving as Program Co-Chair for Empirical Methods in Natural Language Processing.

MVML PLENARY SPEAKER



Titles: Human AI - How Big Data is Big Enough?

Dr. KC Santosh, University of South Dakota, USA

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Prof. KC Santosh is the Chair of the Department of Computer Science (since 2020) and founding director of the AI Lab (since 2015) at the University of South Dakota (USD). He served as Graduate Program Director for seven years (2017–24) and was previously a research fellow at NIH and a PostDoc at INRIA (France). At USD, he has overseen five degree-granting programs, including six specializations and certificates, managed 15 faculty and three staff, supported ~500 students, and administered a budget of over \$2.2 million, including research grants. With over \$8.7 million in funding (DOD, NSF, and ED, to name a few), he has authored 10 books and 250+ research articles (such as IEEE TPAMI, IEEE TAI, and IEEE TMI). He serves as an associate editor for IEEE Trans on AI, IEEE Trans of Medical Imaging and Int J of Machine Learning & Cybernetics and leads review panels for NSF and Mitacs (Canada). He is a trained leader, having completed leadership programs such as Deans/Chairs 1.0 (CCAS, Spring 2021), Deans/Chairs 2.0 (CCAS, Summer 2024), and the President Executive Leadership Training (USD, 2021/22). He leads AI+x initiative that primarily includes curriculum innovation, South Dakota Biomedical Computation Collaborative (supported by a \$6.5M award from the U.S. Department of Education) and USD's AI symposium (IEEE). He brings extensive experience in curriculum innovation—particularly in interdisciplinary initiatives and shared governance (e.g., physics, business analytics, psychology, biology, and biomedical engineering, etc.)—as well as in program assessment and evaluation (as PEV), including ABET accreditation during the 2016/17 and 2022/23 cycles. His leadership has driven a 4,000% growth in AI enrollment at USD. His contributions have established USD as a pioneer in AI programs within the state of South Dakota. In fundraising, he secured a \$2.0 million endowment to further strengthen the reputation of the department.

MVML PLENARY SPEAKER



Titles: Fast Algorithms for Model-Based Smoothing Of Discontinuous Signals and Images

Dr. Martin Storath, Technical University of Applied Sciences Würzburg-Schweinfurt, Germany

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Martin Storath received the Diplom degree in mathematics, the Honours degree in technology management, and the Ph.D. degree in mathematics from Technische Universität München in 2008, 2009, and 2013, respectively. He has contributed as a researcher at institutions such as the Helmholtz Zentrum München, the Biomedical Imaging Group at EPFL, and the Image Analysis and Learning Group at Universität Heidelberg. Currently, he serves as a Professor at the Technical University of Applied Sciences Würzburg-Schweinfurt. His research focuses on computer vision, machine learning, and the development of fast algorithms.

CIST PLENARY SPEAKER



Titles: Artificial General Intelligence through Machine

Dr. Ouri Wolfson, University of Illinois Chicago, USA

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Ouri Wolfson received his B.A. degree in mathematics, and his Ph.D. degree in computer science from Courant Institute of Mathematical Sciences, New York University. Currently he is a Professor of Computer Science at the University of Illinois at Chicago and the founder and Chief Scientific Officer of Pirouette Software Inc., a smart city company. Previously he has been on the computer science faculty at the Technion, Columbia University, and a Member of Technical Staff at Bell Laboratories. He was also the founder of Mobitrac, a high-tech venture-funded startup that was acquired in 2006. He served as a consultant to Argonne National Laboratory, US Army Research Laboratories, DARPA, and NASA. Ouri Wolfson authored over 240 publications, eight of them award winning. He holds seven patents, and has over 17,000 citations on Google scholar. He is a Fellow of the Association of Computing Machinery (ACM), a Fellow of the American Association for the Advancement of Science (AAAS), a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of the Asia-Pacific Artificial Intelligence Association (AAIA), Fellow of the International Artificial Intelligence Industry Alliance (AIIA), and a University of Illinois Scholar. He served as a Distinguished Lecturer for the ACM. His research has been funded by the NSF, Air Force Office of Scientific Research, DARPA, NATO, US Army, NASA, Hughes Research Labs, Accenture, Hitachi Co.

ICBES Keynote SPEAKER



Titles: The Use of Artificial Intelligence in Fall Prevention for the Elderly

Dr. Thurmon Lockhart, Arizona State University, USA

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Thurmon Lockhart, PhD, More Foundation Professor of Life in Motion, School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ USA Dr. Thurmon Lockhart is the Inaugural MORE Foundation Professor of Life in Motion Professor in the Biomedical Engineering program in the School of Biological Health and Systems Engineering at Arizona State University. Professor Lockhart's research focuses on the identification of injury mechanisms and quantification of sensorimotor deficits and movement disorders associated with aging and neurological disorders on fall accidents utilizing wearable biosensors and nonlinear dynamics and machine learning. For the presentation, I will discuss about a recent publication and following work regarding prediction of fall risk in older adults using nonlinear dynamics and machine learning.

EEE Keynote SPEAKER



Titles: Electrodeposited polymers in electrochemical sensors for health applications

Dr. Matiar Howlader, McMaster University, Canada

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Matiar R. Howlader started his academic career with a BSc in Electrical and Electronic Engineering from Bangladesh in 1988 and later earned his Ph.D. in Applied Quantum Physics and Nuclear Engineering from Japan by 1999. A recipient of the Best Technical Paper Award in 2003, Howlader was an Endowed Associate Professor in Tokyo before joining McMaster University, Canada. Currently, he serves as an Associate Professor in Electrical and Computer Engineering at McMaster University, Canada. Specializing in nanomaterials-based electrochemical sensors, his work revolves around developing innovative materials and components for health, environmental, and energy applications. A key innovation is surface-activated nanobonding (SAB) which integrates different materials. Howlader's vision encompasses the use of artificial neural networks for disease biomarker analysis and the creation of personalized healthcare biosensor systems, merging technology, health, and environment for comprehensive sensing solutions.

ICBES Keynote SPEAKER



Titles: From Generic to Specific: Tailoring Wearable Technologies for Personalized Healthcare

Dr. Kunal Mankodiya, University of Rhode Island, USA

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Kunal Mankodiya, PhD is the Director of Wearable Biosensing Lab and is an associate professor in the Dept. of Electrical, Computer, and Biomedical Engineering, University of Rhode Island, RI, USA since 2014. He is a recipient of NSF CAREER (2016) Award enabling research on “Internet of e-textile wearables for telemedicine”. In 2018, he received TechConnect Defense Innovation Award for his work on “Smart Textile Trouser”. He was recognized as the “Innovator-of-the-year” by Future Textiles Awards, Frankfurt, Germany in 2017. Mankodiya was also selected among “40 under 40” by Providence Business News in 2017. His embedded computing design of a smart-textile ECG system earned him the 2010 SYSTEX Award, University of Ghent, Belgium. He regularly organizes scientific workshops/symposiums on IOT for healthcare at various international conferences. He also organizes an annual 48-hour HealthHacks event to promote entrepreneurial thinking in the areas including IOT, healthcare, and aging. His course on Wearable IOT blends design thinking with IOT concepts to nurture entrepreneurial skills in students from various backgrounds. He pursued his postdoctoral research at Intel Science & Technology Center (ISTC) and Carnegie Mellon University (CMU), Pittsburgh, PA, USA. He received his Ph.D. degree from the University of Luebeck, Germany. He holds MS (University of Luebeck, Germany) and BE (Saurashtra University, India) degrees in Biomedical Engineering.

MHCI Keynote **SPEAKER**



Titles: Improving Medical Imaging Efficiency with AI Algorithms Running on Dedicated AI Chips

Dr. Dalila B. Megherbi, University of Massachusetts Lowell, USA

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Dr. Dalila B. Megherbi received the Sc.M in Electrical and Computer Engineering, the Sc.M in Applied Mathematics, and the Ph.D in Electrical and Computer Engineering from Brown University, Providence, RI, USA. Dr. Megherbi is a professor of electrical and computer engineering at the University of Massachusetts, Lowell. She is the founder and Director of the Research Center for Computer Machine/Human Intelligence Networking and Distributed Systems (CMINDS) (<https://www.uml.edu/Research/CMINDS/>). Her research is internationally recognized. She holds more than 158 refereed peer-reviewed publications, including articles in the IEEE and the prestigious Nature Biotechnology. She holds US patent. She has been the recipient of numerous research grants and contracts, as the primary lead principal investigator, from several federal agencies and the industry, including DOD AFRL/WPAB, NSF, US FDA, NIH, Raytheon Air Missile Defense Systems, Xilinx Inc., Structural Dynamics Research Corporation, SUN Microsystems/Oracle, Altera Inc., and Sky Computers Inc. She graduated more than 46 UML graduate Ph.D. and MS thesis option students. She serves as an associate editor and member of the editorial boards, as well as a reviewer for a dozen journals, including IEEE Transactions. She was invited to serve as a General Chair for the 2018 IEEE CIVEMSA International Conference. She has been invited to organize, serve as a session chair, and deliver a keynote address at several national and international conferences. She has been invited to serve on national and international peer review boards, including the NSF, NIH, NASA, the National Science Foundation of Ireland, and the Czech Science Foundation.

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The following papers were presented at the 11th World Congress on Civil, Structural, and Environmental Engineering (EECSS 2025)

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Improving Medical Imaging Efficiency with AI Algorithms Running on Dedicated AI Chips

Authors: Dalila B. Megherbi

Human AI - How Big Data is Big Enough?

Authors: KC Santosh

Fast Algorithms for Model-Based Smoothing Of Discontinuous Signals and Images

Authors: Martin Storath

Electrical Engineering

Underground Installation of Low Voltage Distribution Boxes

Authors: Nihan Segah Çakar, Umur Deveci, Nida Mesci, Gürol Ecer

Enhanced Grid Stability and Demand-Side Optimization through Deep Neural Network-Controlled Vehicle-to-Grid (V2G) Peak Shaving and Load Shifting

Authors: Enes Ladin Öncül, Özgün Girgin

Power Management of Solar PV Battery and Supercapacitor in DC Microgrid

Authors: Bahri Bilgiç, Enes Ladin Öncül, Ozgun Girgin

A Fully Programmable Memristor-based Processing-in-Memory Architecture

Authors: Raqibul Hasan

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Development Octagonal in Concentric and Meander Line Slot Antennas for Optimal RFID Performance for Safety Food

Authors: Cheima Ben Hattab

Health Status Classification of Electric Motors Using CNN-Based Models and SDP Images Under Varying Noise Conditions

Authors: Merve Ertarğın, Nikolay Yordanov, Marin Zhilevski

Advancing Sheet Metal Formability: An In-Depth Numerical Investigation and Enhanced Modeling of Electrohydraulic Process

Authors: Ilhem Boutana, Mohamed Rachid Mekideche, Bachir Benalia, Samir Achouche

Effectiveness of Time Series Models in Consumption Forecasting for Photovoltaic Energy with Limited Historical Data: SARIMA and Prophet

Authors: Henrique Teixeira Silva, Elcio Franklin de Arruda, Luiz Felipe Pugliese, Rodrigo Aparecido da Silva Braga

Analysis of LLC Resonant DC-DC Converter with Non-Singular Fast Terminal Sliding Mode Control for Ev. Battery Charging

Authors: Mohammed Naji, Hur Jedi

Multi-Step Controlled Islanding of Transmission Power Systems Using Constrained Spectral Clustering and Deep Learning Assistance

Authors: Mohammed Abdallatif, Jürgen Götze

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Electrical Engineering

Characteristics of Discharge Phenomena on Novel Ceramic-Pipe Covered Cathode

Authors: Isak L. SHAWAPALA, Akira SUGAWARA, Kaho HAYAKAWA

Deep Learning-Based Approaches for Short-Term Residential Electricity Consumption Prediction: A Comparative Study of LSTM, CNN-LSTM, and CNN-GRU Models

Authors: Mihriban Gunay, Ozal Yildirim, Yakup Demir

A Novel Power Cepstrum Based Differential Protection Scheme For LVAC Microgrid

Authors: Manoj Yadav, Chandan Kishore, Manoj Tripathy, Li Wang

Thermal Management in Lithium-Ion Batteries for Heat Distribution and Performance in Series and Parallel Configurations

Authors: Jung-Chang Wang

Comparative Analysis of Nature-Inspired Optimization Algorithms for Partial Shading Conditions

Authors: Imran Semanur Arpacı, Enes Ladin Öncül, Ozgun Girgin

Stock Price Prediction Using Kalman Filter

Authors: Nicholas Assimakis, Maria Adam, Dimitris Katsianis

Semantic Segmentation for Multi-Class ECG Beat Classification with Emphasis on Aberrant PAC Detection

Authors: Jungkyung Lee, Jongdoo Choi, Euijoon Choi, Hoohyun Kim, Heeseok Song

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Modeling Advanced Technology of Biodegradable Mulch Films

Authors: Crystal Cheng, Bryan Huang, Chenhao Zhang, William Wen Zong, Aaron Huang, Linda Shi

Upper Limb Injuries and Biomechanical Insights Among Recreational Padel Players in Kuwait

Authors: Mahdi Yousef Farhat, Lujain Moussa, Behzad Bashiri

Ultrafast Divergent Wave Imaging in 2D Echography : A Parametric Study

Authors: Ahmad Bassal, Zahraa Alzein

Postural Assessment of Histopathology Laboratory Technicians during Laboratory Tasks

Authors: Sumeya Ruwaie, Behzad Bashiri

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Biomedical Engineering

Smart Home Technologies for Monitoring Cancer Symptoms and Enhancing Palliative Care

Authors: Roschelle Fritz, Alex Fauer, and Diane J Cook

REBECCA: A System for Real World Behavioural Data in Breast Cancer Clinical Research and Patient Care

Authors: Paraskevas Bourgos, Filopoimin Lykokanellos, Ioannis Sarafis, Alexandros Papadopoulos, Leonidas Alagialoglou, Vasileios Papapanagiotou, Aristotelis Ballas, Niki Kiriakidou, Christos Diou, Lazaros Apostolidis, Anna Barachanou, Symeon Papadopoulos, Nikolaos Androulidakis, Emmanouil Kafetzakis, Ioannis Giannoulakis, Anastasios Delopoulos, on behalf of the REBECCA consortium

Comparison of Machine Learning Models for At-Home Diagnosis of Parkinson's Disease Progression Using Speech Biomarkers

Authors: Minghui Yao, Vijay Ravi, Abeer Alwan

Assessing the Effectiveness of Various Filtering Techniques on Seismocardiography Signals in Individuals with Valvular Heart Disease

Authors: Mahsa Raeiati Banadkooki, Martin Bogdan

Time-Domain Electromyographic Biomarkers for the Assessment of Post-Stroke Dysphagia Rehabilitation

Authors: Javier Imaz-Higuera, Isaac Cohen-Leon, Gema Prats-Boluda, Yiyao Ye-Lin, Jose Luis Martinez-de-Juan, Marta Gutierrez-Delgado, Jennifer Prieto-House, Gema Más-Sesé, Araceli Belda-Calabuig, Javier Garcia-Casado Vagena, Fragiska Sigala, and Dimitrios I. Fotiadis

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Pose-based Hand Movement Tracking for Monitoring Psoriatic Arthritis Progression

Authors: Oliver Werthwein, Damian J. Bukieda, Lara Schweickart, Wilhelm Stork

Mirror: Embedded AI Mirror for Thermal Tumor Screening and Remote Monitoring

Authors: Wissal EL HABTI, Abdellah AZMANI, Jabir EL AARAJ, Mohcine BENNANI MECHITA

Recurrence Quantitative Analysis of Resting State Electroencephalography for Parkinson's disease Detection

Authors: Adrian Velasco-Hernandez, Gema Prats-Boluda, Enrique Guijarro-Estelles, Antonia Chornet-Lurbe³, Yiyao, Ye-Lin

Comparison between the Functional Mean and the Deepest Curve in Biomechanical Curves

Authors: Elisa Aragón-Basanta, Álvaro Page, Guillermo Ayala, Enrique Viosca-Herrero, Luz Herrero-Manley

Nano-porous Aerogel Granulometry for Enhancing Efficiency of Hemostatic Devices

Authors: Molly Bagchee

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Comparing 3D-Modeling Algorithms to Enhance Remote Diagnosis Accuracy of Psoriasis

Authors: Lara Schweickart, Julia Hofmann, Jan Malte Hustiak, Christoph Zimmermann, Paul Schöppe, Astrid Schmieder, Wilhelm Stork

Brain Response to different Frequencies at the Action Potential and the effects of Sodium and Potassium ratio on Neuron

Authors: Saeed Charbenny, Zhihong Huang

Simulation of Brain Temperature Dynamics under Varying Pulse Widths and the Influence of Na⁺ and K⁺ Conductance on Neuronal Activity

Authors: Saeed Charbenny, Zhihong Huang

Personalized Stroke Risk Assessment in Atrial Fibrillation Using Fluid-Structure Interaction and Deep Learning

Authors: Giulio Musotto, Danila Vella, Alessandra Monteleone, Nicolina Sciaraffa, Claudia Coronello and Gaetano Burriesci

Spatial Language in Augmented Reality: An XR Framework for Investigating Visuospatial Cognition

Authors: Umberto Quartetti, Antonio Cangelosi, Giulio Musotto, Fabrizio Di Giovanni, Giuditta Gambino, Filippo Brighina, Danila Di Majo, Giuseppe Ferraro, Pierangelo Sardo, Giuseppe Giglia

BIOMECHANICAL ANALYSIS OF LANDING TECHNIQUES AND ASSOCIATED INJURY RISK IN LONG JUMP

Authors: Daniyal Durrani, Zartasha Mustansar

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Authors: Vinayak Kawale, Sakshi Rai, Devraj Jp, Ravindranath B S, Vankudavath Rajunaik

Gait Disorder Classification Using CNN and TensorFlow Lite in Android Apps

Authors: K. A. Rahman, E. F. Shair, A. R. Abdullah, T. H. Lee, M. S. Zoha, N. Nazmi

Multimodal Sensing For AI-Assisted Diagnoses of Heart Failure

Authors: Mirjana Stojanović, Maša Tiosavljević, Aleksandar Lazović, Vladimir Atanasoski, Predrag Tadić, Marija Ivanović, Ljupčo Hadžievski, Aleksandra Maluckov, Arsen Ristić, Vladan Vukčević, Jovana Petrovic

Automated Risk Stratification of Peripheral Artery Disease via Optimized Volume Rendering and Vascular Biomarkers

Authors: Mohammed A. AboArab, Vassiliki T. Potsika, Alexis Theodorou, Sylvia Vagena, Fragiska Sigala, and Dimitrios I. Fotiadis

Performance Evaluation of Multiscale Finite Element Modelling in Trabecular Bone Mechanics

Authors: Jiapeng He, Guowei Zhou, Jiangming Yu, Xiaopeng Li, Dayong Li

Automatic Segmentation of the Brainstem Based on Multiplanar Magnetic Resonance Image Slices Using U-Net-Based Machine Learning

Authors: Gabriela Diógenes, Cristiano Miosso, Pedro Renato P. Brandão, Brenda Macedo, Marcelo Lobo, Diógenes Bispo

Strategic Life Cycle Management Approaches for Smart Maintenance of Diverse-Brand Infusion Pumps in Hong Kong Public Hospitals

Authors: TSE Lok Him, POON Hiu Ching, MAN Cheuk Hin Rico

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Neurotoxic Effects of Perfluorooctanoic Acid (PFOA) on Mouse Cortical Neurons: A Quantitative Imaging Study

Authors: Felix Yang, Olivia (Liv) Lee, Diya Patel, Samuel Kent, Verna Lee, Sophia Uecker, Yu-Sin (Jennifer) Ou, Iman Malhi, Chunyuan Fei, Chengbiao Wu, Linda Shi, Veronica Gomez-Godinez

ACUIITEE: A Comprehensive Tool for Visualization, Editing and Curating textual Annotations in Clinical Data

Authors: Moussa Baddour, Olivier Dameron, Marie de Tayrac, Stéphane Paquetlet, Paul Rollier, Thomas Labbe, Majd Saleh

Detection of Optimum Tilt Angle in Outward Inclination of Ground Plane for Walking Support

Authors: Satoshi Shimada

Supercharging Generalized Cell Segmentation with Diffusion Synthesized Data

Authors: Henry Hou

RIN3 Protein Mutation and Astrocyte Dynamics in the Hippocampus: Implications for Alzheimer's Disease

Authors: Jiyeon Song, Yicheng Zhao, Aspen Lee, Medha Ravi, Cindy Kuei, Jihoo Hyun, Linda Shi, Changbiao Wu, Kijung Sung

Neurotoxic Effects of Perfluorooctanoic Acid (PFOA) on Mouse Cortical Neurons: A Quantitative Imaging Study

Authors: Felix Yang, Olivia (Liv) Lee, Diya Patel, Samuel Kent, Verna Lee, Sophia Uecker, Yu-Sin (Jennifer) Ou, Iman Malhi, Chunyuan Fei, Chengbiao Wu, Linda Shi, Veronica Gomez-Godinez

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Electrospinning Coating of Nitinol Guidewire with Manganese Ion Chelated Melanin Nanoparticles for Interventional Magnetic Resonance Imaging

Authors: Engin Baysoy, Bora Büyüksaraç, İdil Seçkin, Berk Kaleli, Efe Sönmez, Senem Avaz Seven, Alpay Özcan, Gizem Kaleli-Can

Revealing End-Systolic Right Ventricle Segmentation Strengths of EfficientNetB3 in DeepLabv3+

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