

3rd International Conference on Computing, IoT and Data Analytics
Shenyang University of Technology, Liaoning, China
July 25-26, 2024

ICCCIDA

Conference Program

3rd International Conference on Computing,
IoT and Data Analytics
Shenyang University of Technology,
Liaoning, China
July 25-26, 2024



Keynote Speaker I



Prof. Zhe Chen

Aalborg University, Denmark

Biography

Dr. Zhe Chen is a Professor with the Department of Energy Technology, Aalborg University, Denmark. His main current research interests are wind energy, power electronics, power system and modern energy systems and AI applications in energy system. In these areas, he has led many international and national research projects and has supervised many PhD, Postdoctoral researchers and visiting PhDs/scholars, he has more than 1000 technical publications.

Dr Chen is a member of editorial boards for many international journals, including Associate Editor of the IEEE Transactions on Power Electronics, IET Renewable Power Generation, etc. He is a Fellow of IET, a Chartered Engineer in the U.K., a Fellow of IEEE and a member of the Danish Academy of Technical Sciences.

Speech Title

AI in Smart Energy Systems

Keynote Speaker II



Prof. Fausto Pedro García Márquez

Castilla-La Mancha University, Spain

Biography

Fausto Pedro García Márquez works at UCLM as a Full Professor (Accredited as Full Professor from 2013), Spain, an Honorary Senior Research Fellow at Birmingham University, UK, a Lecturer at the Postgraduate European Institute, a Research Fellow at INTI International University&Colleges, Malaysia, and has been Senior Manager in Accenture (2013-2014). He obtained his European PhD with maximum distinction. He has been distinguished with the prizes: Runner Prize (2023), Nominate Prize (2022), Gran Maestre (2022), Grand Prize (2021), Runner Prize (2020) and Advancement Prize (2018), Runner (2015), Advancement (2013) and Silver (2012) by the International Society of Management Science and Engineering Management (ICMSEM), First International Business Ideas Competition 2017 Award (2017), etc. He has published more than 283 journal papers (187 JCR: 92-Q1; 52-Q2; 39-Q3; 9-Q4), some recognized as: “Progress in Photovoltaics: Research and Applications” (Q1, IF. 8.49, one of the most downloaded in first 12 months of publications, 2023), “Applied Energy” (Q1, IF 9.746, as “Best Paper 2020”), “Renewable Energy” (Q1, IF 8.001, as “Best Paper 2014”); “ICMSEM” (as “excellent”), “Int. J. of Automation and Computing” and “IMechE Part F: J. of Rail and Rapid Transit” (most

downloaded), etc. He is the author and editor of over 55 books (Elsevier, Springer, Pearson, Mc-GrawHill, Intech, IGI, Marcombo, AlfaOmega,...), >115 international chapters, and 6 patents. He is the Editor of 5 Int. Journals, Committee Member more than 70 Int. Conferences. He has been the Principal Investigator in 4 European Projects, 8 National Projects, and more than 150 projects for Universities, Companies, etc. His main interests are: Artificial Intelligence, Maintenance, Management, Renewable Energy, Transport, Advanced Analytics, and Data Science.

Speech Title

Accelerating the renewable energy by using artificial intelligence

Keynote Speaker III



Prof. Hassan BEVRANI

University of Kurdistan, Iran

Biography

Hassan Bevrani (IEEE Fellow) received a PhD degree in electrical engineering from Osaka University in 2004. He is a full professor and the Program Leader of Micro/Smart Grids Research Center (SMGRC) at the University of Kurdistan. Over the years, he has worked with Osaka University, Kumamoto University (Japan), Queensland University of Technology (Australia), Kyushu Institute of Technology, Centrale Lille (France), Doshisha University, Nagoya University (Japan) and Technical University of Berlin (Germany). He is the author of 6 international books, 15 book chapters, and over 300 journals/conference papers. He has been the guest editor of 5 volumes of Elsevier Energy Procedia and Energy Reports journals. His current research interests include Smart grid operation and control, power system stability, Microgrid dynamics and control, and Intelligent/robust control applications in power electric industry.

Speech Title

Power grids dynamic performance shaping using grid-forming converters

Keynote Speaker IV



Prof. Zheng Fang

Northeastern University, China

Biography

Zheng Fang is a full Professor in the Faculty of Robot Science and Engineering, Northeastern University, China. He received his B.S. degree in Automation and Ph.D. degree in Pattern Recognition and Intelligent Systems from Northeastern University, China, and did his Post-Doctoral Research in Robotics at Robotics Institute of Carnegie Mellon University (CMU), USA. His research focuses on perception and autonomous navigation of mobile robots using various sensors, including vision, LiDAR, Radar, etc. He dedicates to improving the intelligence of autonomous unmanned systems. He has published over 80 papers in well-known journals or conferences in robotics and artificial intelligence, including IEEE Transactions (TMM, TIV, TPAMI, TITS, TVT, TIM, etc), Journal of Field Robotics (JFR), IEEE Robotics and Automation Letters (RA-L), IEEE International Conference on Robotics and Automation (ICRA), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

Speech Title

Robust Perception of Autonomous Unmanned Systems in Challenging Environments

Keynote Speaker V



Prof. Kairu Li

Shenyang University of Technology, China

Biography

Kairu Li is a professor of the School of Electrical Engineering, Shenyang University of Technology. She worked as a senior research assistant in University of Portsmouth (UoP), UK, in 2019, received her Ph.D degree in Intelligent Systems from UoP in 2018, and M.S. and B.E degrees from Dalian University of Technology (DUT). Her research interests lie in the area of intelligent rehabilitation robots, especially in haptics-based human-machine interaction and biological signal analysis. She has published over 20 papers (IEEE Transactions on Automation Science and Engineering, IEEE Sensors Journal, IEEE Transactions on Cybernetics, etc), as well as served as the Principal Investigator of several research projects sponsored by the National Natural Science Foundation of China, Natural Science Foundation of Liaoning, The Educational Department of Liaoning Province, etc. She was awarded the Liaoning Revitalization Talents Program for Excellent Young Scholars in 2023.

Speech Title

Research on Bi-directional Human-machine Interface Based on Biological Signal Analysis and Tactile Feedback

Keynote Speaker VI



Prof. Shehzad Ashraf Chaudhry

Abu Dhabi University, United Arab Emirates

Biography

Dr. Shehzad Ashraf Chaudhry is working as an Associate Professor of Cybersecurity Engineering in College of Engineering, Department of Computer Science and Information Technology, Abu Dhabi University, United Arab Emirates. He is also holding a position of Associate Professor in Faculty of Engineering and Architecture, Department of Software Engineering, Nisantasi University, Istanbul, Turkey. Dr. Shehzad received the master's and Ph.D. degrees (with Distinction) from International Islamic University Islamabad, Pakistan, in 2009 and 2016, respectively. He was a recipient of the Gold Medal for achieving 4.0/4.0 CGPA in his Masters. Prior to joining ADU he served as an Associate Professor with Istanbul Gelisim University, Istanbul, Turkey, University of Sialkot, Pakistan and as an Assistant Professor with International Islamic University, Islamabad, Pakistan.

Speech Title

Securing Connected Vehicles: Access Control based Oversights and Countermeasures

Program Summary

Day-1 Registration & Materials Collection for Onsite Participants Thursday, July 25, 2024

All timing follows China Standard Time (GMT+8)

Time: 10:00-16:10

Venue: Renaissance Shenyang West Hotel-lobby

Registration Steps:

1. Arrive at the lobby.
2. Inform the conference staff of your paper ID.
3. Sign your name on the Participants list.
4. Sign your name on Lunch & Dinner requirement list.
5. Check your conference kits: (1 conference program, 1 lunch coupon, 1 dinner coupon, 1 name card, 1 bag, 1 U disk).
6. Finish registration.

Day-1 Zoom Testing for Online Participants Thursday, July 25, 2024

All timing follows China Standard Time (GMT+8)

Zoom:84310220791

Zoom link: <https://us02web.zoom.us/j/84310220791>

Online Test (*GMT+8*)

16:00-16:30	Presenters from Session 3
16:00-16:30	Presenters from Session 4
16:00-16:30	Presenters from Session 5
16:00-16:30	Dr. Shehzad Ashraf Chaudhry

Day-2 Sessions Friday, July 26, 2024

All timing follows China Standard Time (GMT+8)



Onsite Venue Information:

Renaissance Shenyang West Hotel - 3F - Meeting Room No.



Address:

No 27 Zhongyang Street, Shenyang, Liaoning, China, 110142

Online ZOOM Room Information:

- [Zoom Room - 1 Link](#)
- [Zoom Room - 2 Link](#)

08:30 – 08:40	Opening Remark
08:40 – 09:20	Keynote Speaker I : Prof. Zhe Chen, Aalborg University, Denmark
09:20 – 10:00	Keynote Speaker II : Prof. Fausto Pedro García Márquez, Castilla-La Mancha University, Spain
10:00 – 10:40	Keynote Speaker III : Prof. Hassan Bevrani, University of Kurdistan, Iran
10:40 – 11:00	Group Photo & Coffee Break
11:00 – 11:30	Keynote Speaker IV : Prof. Zheng Fang, Northeastern University, China
11:30 – 12:00	Keynote Speaker V : Prof. Kairu Li, Shenyang University of Technology, China
12:00 – 13:30	Lunch Break
13:30 – 15:30	In-Person Technical Session - 1
15:30 – 17:30	In-Person Technical Session - 2
13:00 – 13:40	Keynote Speaker VI : Dr. Shehzad Ashraf Chaudhry, (Online: <u>Zoom Room - 1 Link</u>) Abu Dhabi University, United Arab Emirates
13:40 – 16:20	Online Technical Session - 3 (Zoom Room - 1)
13:40 – 16:20	Online Technical Session - 4 (Zoom Room - 2)
16:20 – 18:50	Online Technical Session - 5 (Zoom Room - 1)

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Program Details
In-Person Sessions
DAY-2: Friday, July 26, 2024

In-Person Technical Session-1
Time: 13:30 - 15:30
Session Chair: Dr. Jiawei Feng & Dr. Ning Yan

Day-2
July 26

Paper ID	Authors / Title
17	Acoustic Monitoring for Wind Turbine Management: An Offshore Case Study Segovia Ramírez, Isaac; García Márquez, Fausto Pedro; Bernalte Sánchez, Pedro José
27	Feature-Level Meta-Transfer Learning Framework for Few-Shot Cross-Condition Fault Diagnosis of Bearings Zhang, Yuxian; Yao, Yuqi; Liu, Yuejia; Qiao, Likui
03	Wind Energy and Maintenance Forecasting Employing Tree-Based Reduction Methods Gomez Muñoz, Carlos Quiterio
28	Semantic-Consistent Embedding for Zero-Shot Composite Fault Diagnosis of Bearings Zhang, Yuxian; Liu, Yuejia; Yao, Yuqi; Qiao, Likui
61	Intelligent Obstacle Avoidance Method for Robots Based on Emotional Models Cao, Ming
30	Data-Driven MPC for Advanced Wind Turbine Control Considering Load Mitigation 李, 孜远; Wang, Xiao; Liu, Qing; Zhang, Yuxian
40	Grid-Forming Converters Simulation and Control Using a High-Level Language: Exploring Julia's Potentials REHIMI, Sharara; Bevrani, Hassan; T. Chiyori, Urabe; Kato, Takeyoshi

In-Person Technical Session-2
Time: 15:30 - 17:30
Session Chair: Prof. Haixin Wang

Day-2
July 26

Paper ID	Authors / Title
58	Optimal Scheduling of Integrated Energy System Considering Flexible Loads Demand Response Ruijie, Si
16	contract-spot coordination optimization strategy of wind storage integration considering load demand under contract for difference mechanism Siqi, Zhang
75	Research on Chief Data Officer's Role Values, Competence Responsibilities, and Organizational Structure Yu, Jun
15	Research on Strategy of Pumped Storage and Nuclear Power in Auxiliary Service Market 曹, 铭航; Wang, Haixin
13	Power Prediction Method of Wind Turbines Based on the SSA-BP Neural Network Chen, Boyu; Cheng, Shanshan; Lu, Shengyang; Cui, Haoqian; Li, Jiling; Liang, Mingming; Liiu, Jia; Wang, Haixin; Yang, Junyou
10	Inertia Assessment of Power System by Considering Spatial-Temporal Distribution Characteristics Guo, Shuang; Li, Yunlu; Cui, Shaoze; Wang, Haixin; Yang, Junyou
11	A Non-contact Strategy for Upper Limb Terminal Rehabilitation Trajectory Demonstration and Execution Xu, Dongkai

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05	Stability Analysis Of Renewable Energy Systems Considering Photovoltaic Integration Lu, Hongyu; Cheng, Shanshan; Cui, Haoqian; Lu, Shengyang; Liu, Qingshan; Liu, Jia; Han, Deyun; Wang, Haixin; Yang, Junyou
85	Modal Analysis Of Low-Frequency Oscillations In Power Systems Based On Small-Signal Analysis Considering The Interaction Of Physical And Virtual Inertia Shan, Liu qing; Shengyang, Lu; Li, Jing; Hiroshi, Yokoi; 刘, 佳; Wang, Haixin; Yang, Junyou
52	Stability analysis of Wind-Energy Storage Hybrid Systems Based on Small-Signal Method Li, Jing; Lu, Shengyang; Cheng, Shanshan; Wang, Haixin; Yang, Junyou; Hu, Shiyan
86	Low-Frequency Oscillation Suppression Capability Analysis Of Thermal Units Under Power Deep Peak Shaving Pengbo, Zhu; Shengyang , Lu; Shan, Liu qing; Zhang, Tieyan; Wang, Haixin; Yang, Junyou
84	Quasi-Electromechanical Oscillations Suppression Strategy For Power System Based On VPSS2B 刘, 佳; Shengyang, Lu; Mingqi, Liu; Guanfeng, Zhang; Wang, Haixin; Yang, Junyou
08	Refined Modeling of DFIG Grid-Connected Systems Based on Damping Torque Analysis 郑, 杨
12	Frequency Regulation Control Method For Wind Energy Storage Based On VSG Wang, Haixin; Han, Deyun; Cui, Haoqian; Cheng, Shanshan; Lu, Shengyang; Li, Jing; Lu, Hongyu; Liu, Xiayu; Yang, Junyou
64	Optimal Configuration of Repurposed Battery Energy Storage Systems with Stochastic Capacity Degradation Lu, Yan; Gao, Fei
73	Implementation Strategies and Development Trends of Artificial Intelligence in Data Center Operations Yu, Jun
32	The Role Of Artificial Intelligence In Enhancing Translation And Cultural Diversity With Reference English And Arabic Translation Inam Ghalib Sheekhoo Al-Azzawi; Maha Abdullah Mohammed; Anfal Sabeeh Hamood
37	The Role of Multimedia Translation in Digital Communities Haneen Qasim Said
33	The Effect of Two Training Approaches With (Hanging - Heavy) Ropes In Developing Some Physical Abilities And Accuracy Of Shooting -In Front Of Handball Sundus Mousa Jawad; Suhad Qassem Saeed Al-Mousawi; Iqbal Abdul Hussein Neamah; Entidhar Jumaah Mubarak; Huda Badwi Shbeeb
34	The Effect of Exercises According to The Ranges of Arm Movement And Their Effect On Muscle Strength, And Some Biomechanical Variables, And Javelin Throwing Achievement For Young People Jumana, ghazi Salman Al jumaily; Suhad Qassem Saeed Al-Mousawi
35	The Effect of Bulgarian Bag Exercises to Develop Explosive Force, Characterized by Speed And Accuracy Of The Spiking Performance Of Volleyball Players Zainap Abdulrahman Abdelkarim; Suhad Qassem Saeed Al-Mousawi
36	AI Analysis of Islamic History Sources: Challenges and Opportunities Reem Hassan Salim Hassan
55	The Use of Mobile Journalism by Communicators and the Gratifications Achieve Duaa Saadi Abu Shanna
38	The Role of Iraqi Satellite Channels on Social Media in Educating the Iraqi Public about Sustainable Development Ahmed Salah Mahdi; Taiba Mohammed Saleh
42	Public Reliance on Social Media to Follow Up on Domestic Violence Issues: A Survey of The Public in Baghdad Huda Ali Mahdi
43	The Digital Identity of The Journalist Considering The New Digital Communication: A Field Study Of A Sample Of Iraqi Journalists Jamil Nayef Sarhad Hassan

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49	The Role of Iraqi Journalism in Educating Society About the Phenomenon of Electronic Extortion: A University Field Study Ahmed Fadel Abbas
71	The Impact of The External Auditor’s Professional Specialization on The Audit Quality Factors Ahmed Yahya Khudair; Shaima Adnan Al-Sultani
72	The Role of The European Economic Security Strategy In Managing Economic Risks Amani Khalid

Online Sessions
DAY-2: Friday, July 26, 2024

Online Technical Session - 3 Time: 13:40 - 16:20 Session Chair: Dr. Enkledia Lulaj, Dr. Sumera Mahmood	Day-2 July 26
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56	IoT Resource Allocation using Regression Analysis Mostafa, Nour; Shdefat, Ahmed Younes; Salman, Mohammad; Zaki, Chamseddine; ElSayed, Fahmi
09	Deep Attention Model for Malaria Prediction Reddy, Hema Radhika Radhika; R, Sriviswa
18	Effects of the Task and Learning Process on the Joint Distribution of the Saccade Amplitudes and Orientations Genova, Bilyana; Bocheva, Nadejda; Hristov, Ivan
20	Detection of PCB Surface Defects in Improved YOLOv8s 泊桐, 朱
24	Improved Lightweight SSD Target Detection Algorithm for Vehicle Vision System 王, 耀民
25	Information Segmentation and Feature Extraction Method Based on Bi-polarisation Jia, Chunyang; li, yong; Huang, Zhaorun
31	Distributed Energy Sharing Mechanism for Multiple IoT-enable Park-level Integrated Energy Systems Based on Cooperative Game Ren, Siyu; Chen, Yipeng; Zou, Siyuan; Wang, Hongyu
39	ISMO-based 3-D Trajectory Planning Method for UAVs Tian, Xiaoxi
41	TRUSTd: Framework for Trustworthy Data in IOMT for the judgment of Drug to Drug interactions Hashir, Qadeer ; Majeed, Lala Rukh; Mahmood, Saba; Asfandeyar, Muhammad
07	Deep RL-based Road Traffic Management using SD-IoT network Malhotra, Agrima

Online Technical Session - 4 Time: 13:40 - 16:20 Session Chair: Dr. Muhammad Davud, Dr. Ezgi Demir	Day-2 July 26
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50	Modeling and Optimizing MPPT Control Of Photovoltaic Array Under Local Shadow Chen, Weifeng
57	Research on the Chan-Taylor-MCKF Indoor Positioning Algorithm Integrating UWB and IMU Zhang , Zijun; Wang, Juan; Yang, LiYing

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59	Research on CBIR-based Quality Detection Algorithm for Prefabricated Pizza Sun, Fenghao; Qu, Qiuxia; Liang, Yuling
65	Optimization of Firewall Placement on Information Security Object Using Genetic Algorithm Lakhno, Valeriy ; Makulov, Kaiyrbek; Kasatkin, Dmytro; Kryvoruchko, Olena; Desiatko, Alona; Palaguta, Kateryna; Shestak, Yaroslav
66	Leveraging Large Language Models for MATLAB to Python Translation Pietrini, Rocco
67	Predicting Stock Market Trends Using Regression and Deep Learning Osmanoğlu, Hüsamettin Y
68	OOC: An OCR-OpenAI-ClickUp Integration Osmanoğlu, Hüsamettin Y; Regragui, Hamza
69	GitHubShare: A Mobile Application for Sharing GitHub Projects Osmanoğlu, Hüsamettin Y
53	Artificial Intelligence Historiography: Extensive Explorations in Reshaping Modern History and Social Studies Khudair, Ghufra
78	Modeling of Small Current Grounding System and Simulation Analysis of Single-Phase Fault Zhiyuan Lian

Online Technical Session - 5 Time: 16:20 - 18:50 Session Chair: Dr. Kiran Sood, Dr. Marwa Ben Ali		Day-2 July 26
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44	Fault Detection and Performance Analysis for Quanser’s Two-rotor Helicopter Under Different Faults Dandago, Khalid Kabir; Zhang, Long
70	Human Pose Estimation Based on Multiscale and multilevel Feature Fusion Method 孙, 孟娇
76	Automatic Mine Detection for Underwater and Surface Vehicles Bayrak, Şengül; Bayraktar, Reyhan ; Doğan, Hatice Kübra
81	Image Stitching Method Under Low-light Environments Integrating Image Enhancement and Improved U-Net ZhiNing, Zou
82	Enhancing Multiclass Generalizability in Diabetic Retinopathy Classification Khan, Hamza; Jamil, Akhtar; Hameed, Alaa Ali;
83	IOT-Based Model For Smart Baby Monitoring System Using Muti Agents Kanj, Hassan; Alawadhi, Shahad; Aladwani, Ameerah ; Alenezi, Manar ; Albekheet, Raghad
87	INet: Rescue UAV-based Insulator Damage Detection 杨, 杨泽如
47	An Exploration of Current Trends for Enhancing Multimedia Transfer Efficiency Zaid, Bilal Hameed; Yakoob Mahmood, Safaa ; Sabeeh Hamood, Anfal
48	Uncovering Ancient Rome: AI-Driven Insights for a Deeper Understanding of Roman Societies Sabei , Zainab
89	Enhancing Wind Turbine Performance with Convolutional Neural Networks For Real-Time Wind Pattern Recognition Mohammed, Ramzi Qasim; Mohammed, Ramzi Qasim; HASAN, SARMAJ JASIM; Ibraheem, Abdullah Nasser