2022 International Conference on Computer Engineering and Artificial Intelligence

ICCEAI 2022

Conference Program

July 22-24, 2022

Shijiazhuang, Hebei, China

Co-Sponsored by

Shijiazhuang Tiedao University, China

Hebei Normal University, China

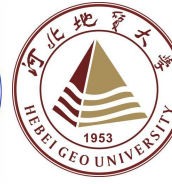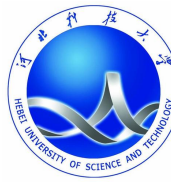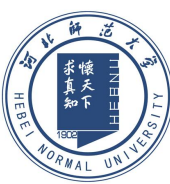Hebei University of Economics and Business, China

Hebei University of Science & Technology, China

Hebei GEO University, China

China Jiliang University, China

Shanghai University of Engineering Science, China

Hunan University of Humanities, Science and Technology, China

Published by

Message from the ICCEAI 2022 General Chairs

2022 International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2022) aims at providing a high-level platform for experts, scholars, innovators and practitioners to share novel research and ideas in the fields of Computer Engineering and Artificial Intelligence. The conference plans to be held in Shijiazhuang, Hebei, China, from July 22 to 24, 2022. ICCEAI 2022 features Keynote Speeches from eminent professors all over the world and technical presentation from participants in different parts of world. All the program will cover a wide range of topics to cater to the needs of specific subject areas for researchers as well as faculty members.

ICCEAI 2022 is Co-Sponsored by Shijiazhuang Tiedao University, Hebei Normal University, Hebei University of Economics and Business, Hebei University of Science & Technology, Hebei GEO University, China Jiliang University, Shanghai University of Engineering Science, Hunan University of Humanities, Science and Technology.

We would like to express our sincere thanks to the Program Chairs: Prof. Dongmei Zhao (Hebei Normal University, China), Prof. Lihui Sun (Hebei University of Economics and Business, China), Prof. Bin Xue (National University of Defense Technology, China), Dr. Hui Wang (Shijiazhuang Tiedao University, China), all program committee members and all the additional reviewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference.

We cordially thank all the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

Prof. Chunhui Piao, Shijiazhuang Tiedao University, China
Prof. Yongchae Jeong, Jeonbuk National University, Korea
Prof. Jenq-Neng Hwang, University of Washington, USA
Prof. Zhengyou Wang, Shijiazhuang Tiedao University, China
ICCEAI 2022 General Conference Chairs

Message from the ICCEAI 2022 Program Chairs

Welcome to the 2022 International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2022), will be held from July 22-24, 2022, in Shijiazhuang, Hebei, China. ICCEAI 2022 will be the most comprehensive conference focused on the Computer Engineering and Artificial Intelligence. ICCEAI 2022 will provide an opportunity for academic and industry professionals to discuss recent progress in the area of Computer Engineering and Artificial Intelligence. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications on Computer Engineering and Artificial Intelligence. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For ICCEAI 2022, we received many paper submissions, after a rigorous peer review process, only very outstanding paper can be accepted for the ICCEAI 2022 proceedings, published by the Conference Publishing Services (CPS). All submitted papers have undergone blind reviews by at least two reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. We also would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members.

Thank you and enjoy the conference!

Prof. Dongmei Zhao, Hebei Normal University, China
Prof. Lihui Sun, Hebei University of Economics and Business, China
Prof. Bin Xue, National University of Defense Technology, China
Dr. Hui Wang, Shijiazhuang Tiedao University, China
ICCEAI 2022 Technical Program Committee Chairs

Organizing Committee

General Chairs

Prof. Chunhui Piao, Shijiazhuang Tiedao University, China

Prof. Yongchae Jeong, Jeonbuk National University, Korea

Prof. Jenq-Neng Hwang, University of Washington, USA

Prof. Zhengyou Wang, Shijiazhuang Tiedao University, China

General Co-Chairs

Prof. Zhijun Fang, Shanghai University of Engineering Science, China

Prof. Yong Yang, Tiangong University, China

Prof. Feiniu Yuan, Shanghai Normal University, China

Prof. Shuliang Zhao, Hebei Normal University, China

Prof. Suzhen Wang, Hebei University of Economics and Business, China

Prof. Dongwen Zhang, Hebei University of Science & Technology, China

Prof. Liangxun Shuo, Hebei GEO University, China

Prof. Xinna Ma, Shijiazhuang Tiedao University, China

Prof. Ying Wu, Xi'an jiaotong university, China

Dr. Vijayakumar Varadarajan, EAI Fellow, European Digital University, USA

Technical Program Committee Chairs

Prof. Dongmei Zhao, Hebei Normal University, China

Prof. Lihui Sun, Hebei University of Economics and Business, China

Prof. Bin Xue, National University of Defense Technology, China

Dr. Hui Wang, Shijiazhuang Tiedao University, China

Publication Chairs

Prof. Pan Lin, Hunan Normal University, China

Dr. Shanna Zhuang, Shijiazhuang Tiedao University, China

Organization Chairs

Prof. Mingliang Li, Hebei GEO University, China

Prof. Huijuan Lu, China Jiliang University, China

Prof. Yun Cheng, Hunan University of Humanities, Science and Technology, China

Dr. Jing Bai, Shijiazhuang Tiedao University, China

Program Committees

Christo Dichev, Winston Salem State University, USA

Chuanlei Zhang, Tianjin University of Science and Technology, China

Cong Pu, Marshall University, USA

Congbo Cai, Xiamen University, China

D.M. D'Addona, University of Naples Federico II Naples, Italy

Daniel(Jian) Sun, Shanghai Jiao Tong University, China

Daqing Guo, University of Electronic Science and Technology of China, China

Defu Zhang, Xiamen University, China

Dehua Ren, Tianjin University of Science and Technology, China

Deming Zhang, Beihang University, China, China

Devard I. Stom , Irkutsk State University, Russia

Di Sun, Tianjin University of Science and Technology, China

Dianwu Yue, Dalian Maritime University, China

Dmitriev M.G., Russian Academy of Sciences, Moscow, Russia

Dmitry Krupenev, Melentiev Energy Systems Institute of Siberian Branch of the Russian Academy of Sciences, Russia

Doina Bein, California State University Fullerton, USA

Duoqian Miao, Tongji University, China

Elhadj Benkhelifa, Staffordshire University, UK

Emiliano -Tramontana, University of Catania, Italy

Eng. Francesco Rundo, STMicroelectronics , Central R&D Division Catania, Italy

Enrique Herrera-Viedma, E.T.S. de Ingenieria Informatica y de Telecomunicacion, University of Granada, SPAIN

Ephraim Suhir, Portland State University, Portland, USA

Erasmus Shaanika, University of Namibia, Namibia

Fang Yao, Hebei University of Technology, China

Fangzheng Zhang, Nanjing University of Aeronautics and Astronautics, China

Fei Ma, Xi'an Jiaotong-Liverpool University, China

Feiniu Yuan, Shanghai Normal University, China

Fuyuan Hu, Suzhou University of Science and Technology, China

Gang Liu, Harbin Engineering University, China

Gang Liu, Xi'an Jiaotong Liverpool University, China

Gang Wang, Xi'an Jiaotong University, China

Gaolei Li, Shanghai Jiao Tong University, China

Gerald Penn, University of Toronto, CANADA

Giridhar Maji, Department of Technical Education and Training, West Bengal, India

Guangcan Yang, Wenzhou University, China

Guisong Yang, University of Shanghai for Science and Technology, China

Gunikhan Sonowal, K L Deemed to be University, India

Gurumurthy Komanapalli, VIT-AP University, (Near Vijayawada), Andhra Pradesh, India

H. K. Dai, Oklahoma State UNiversity, USA

Hai Huang, Beijing University of Posts and Telecommunications, China

Hailong Ning, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, China

Haining Meng, Xi'an University of Technology, China

Haiyuan liu, Nankai University, China

Hamza Djigal, Hohai University, China

Hang Geng, University of Electronic Science and Technology of China, China

Hangyuan Lu, Jiangxi University of Finance and Economics, China

Hao Wang, Southeast University, China

Lixia Yan, Beihang University, China

Loris Belcastro, DIMES, University of Calabria, Italy

Luigi De Simone, Università degli studi di Napoli Federico II, Italy

Lun Hu, Xinjiang Technical Institute of Physics & Chemistry, Chinese Academy of Sciences, China

Lyudmila Kaverzina, Bratsk State University, Russia

M. Zakaria Kurdi, University of Lynchburg, USA

M.Arun, Vellore Institute of Technology, India

Maheswari S, Vellore Institute of Technology, Chennai, India

Maloth Naresh, GIET Hyderabad, INDIA

Marco A. Casanova, Pontifical Catholic University of Rio de Janeiro, Brazil

Menghua Zhang, University of Jinan, China

Ming Chen, Zhejiang University, China

Mohamad Abou Taam, American University of Culture & Education (AUCE), Lebanon

Mohammad Javad Ebadi, Chabahar Maritime University, Chabahar, Iran

Mohsen Razzaghi, Mississippi State University, USA

Mousa Albashrawi, King Fahd University of Petroleum and Minerals, Saudi Arabia

MUHAMMAD ARSHAD SHEHZAD HASSAN，The University of Faisalabad, Pakistan

Muhammad Nihal Hussain, University of Arkansas at Little Rock, United States of America

Na Lv, Xi'an jiaotong university, China

Nagaraj V Dharwadkar, Rajarambapu Institute of Technology, Isalmpur, India

Nan Hu, Soochow University, China

Nan Jiang, East China Jiaotong University, China

Ningjiang Chen, Guangxi University, China

Niraj Kumar, Vellore Institute of Technology, Chennai, India

Oleg Brekhov, Moscow Aviation Institute (National Research University), Russia

Oleg Chernoyarov, National Research University, Russia

P. Uma Maheshwera Reddy, CVR College of Engineering, Hyderabad, India

Padmanathan Panneerselvam, Vellore Institute of Technology, Vellore, India

Panwala Fenil Chetankumar, Visvesvaraya Technological University, India

Pascal LORENZ, University of Haute Alsace, France

Pavlo Maruschak, Ternopil Ivan Puluj National Technical University, Ukraine

Peng Jiang, Sichuan University, China

Peng Zhou, University of Maryland College Park, USA

Peng Zhou, University of Maryland, College Park, USA

Peng-Fei Wu, Huazhong Agricultural University, China

Pengxin Ban, Huazhong University of Science and Technology, China

Qi Zhang, Shandong University, China

Qin Zhiliang , Weihai Beiyang Electrical Group Co. Ltd, China

Qing Pan, Zhejiang University of Technology, China

Qing Zhao, Tianjin University of Science and Technology, China

Quan Zhang, Harvard Medical school, China

R. A. Hiruni Madhusha Rupasingha, Sabaragamuwa University of Sri Lanka, Sri Lanka

R. Ramalakshmi, Kalasalingam Academy of Research and Education, India

R. Vaira Vignesh, Amrita Vishwa Vidyapeetham (Coimbatore Campus), India

R.Sujatha, Vellore Institute of Technology, Vellore, India

Rachana Patil, Savitribai Phule Pune University, Pune, India

Rahul Arun Paropkari, school of Computing and Engineering, University of Missouri - Kansas City, USA

Rajkumar Rajasekaran, Vellore institute of Technology Vellore, Tamilnadu, India

Ranjeet Kumar, Vellore Institute of Technology, Chennai, India

Ratnavel Rajalakshmi, Vellore Institute of Technology - Chennai Campus, Tamilnadu, India

Ravi Prakash Dwivedi, Vellore Institute of Technology, India

Ray T. Chen, The University of Texas, Austin, USA

Researcher Alexslis N. Maindze, Cranfield University, United Kingdom

RESMI R, LBSITW, University of Kerala, India

Riki H Patel , Florida Atlantic University, USA

Rim Moussa, University of Carthage, Tunis

Rita Yi Man Li, Hong Kong Shue Yan University , China

Rong Wang, XI'An UNIVERSITY OF SCIENCE TECHNOLOGY, China

S. Jafar Ali Ibrahim, QIS College of Engineering and Technology (Autonomous) , India

S. Muthulakshmi, Vellore Institute of Technology, India

S.KANNADHASAN, CHERAN COLLEGE OF ENGINEERING, ANNA UNIVERSITY, KARUR, TAMILNADU, INDIA

Sachin Kumar, Kyungpook National University, South Korea

Salman Adil, University of the Punjab Pakistan, Pakistan

Salvatore Cannella, University of Catania, Italy

Sambit Kumar Mishra, SRM University, AP, India

Sanal Kumar, R. V. Government Arts College, Chengalpattu, Tamil Nadu, India

Satyabrata Jit, Indian Institute of Technology (BHU), Varanasi, INDIA

Senthilkumar N C, Vellore Institute of Technology, Vellore, India

Shafqat Ali shad, Luther College, Decorah, IA, USA

Shanti Verma , L.J. Institute of Computer Applications, India

Sheng Ge, Southeast University, China

Shengliang Pu, Faculty of Geomatics, East China University of Technology, China

SHUN YAO, SUN YAT-SEN UNIVERSITY, China

Shuying Huang, Jiangxi University of Finance and Economics, China

Simon James Fong, DCIS, FST, University of Macau, Macau SAR, China

Somying Thainimit, Kasetsart University, Thailand

Tangbin Xia, Shanghai Jiao Tong University, China

Teresa Zielinska, Warsaw University of Technology, Poland

Tien-Wen Sung, Fujian University of Technology, China

Tingting Zhao, Tianjin University of Science and Technology, China

Tuan Nguyen Gia, University of Turku, Finland

V. ARULMOZHI, TIRUPPUR KUMARAN COLLEGE FOR WOMEN, India

V. Thiyagarajan, Sri Sivasubramaniya Nadar College of Engineering, Chennai, India

Vikram Raju Reddicherla, N.M.A.M. Institute of Technology, India

Virender Ranga , National Institute of Technology Kurukshetra, India

Vishalakshi Prabhu, R.V.College of Engineering, Bangalore, India

Wei Huang, Nanchang University, China

Wei Li, Hohai University, China

Wei Tu, Jiangxi University of Finance and Economics, China

Weiguo Wan, Jiangxi University of Finance and Economics, China

Weipeng Hu, Xi'an University of Technology, China

Weixin Han, Northwestern Polytechnical University, China

Wenbin Zhang, Carnegie Mellon University, USA

Wenfeng Li, Wuhan University of Technology, China

Wensheng Yu, Beijing University of Posts and Telecommunications, China
Xiaolong Peng, Medical University of South Carolina, China
XIAOPING WU, Xi'an jiaotong university, China
Xin Chen, Nanjing University of Aeronautics and Astronautics, China
Xingsi Xue, Fujian University of Technology, China
Xu Sun, University of Nottingham Ningbo, China
XU Yang, Peking University, China
Xueying zhang, Taiyuan University of Technology, China
Xu-Yao Zhang, Institute of Automation, Chinese Academy of Sciences, China
Yang Li, Northeast Electric Power University, China
Yang Li, School of Automation Sciences and Electrical Engineering, Beihang University, China
Yang Xiao, Southwest Petroleum University, China
Yao Ye, Northwestern Polytechnical University, China
Yao-Feng Chang, Intel, Hillsboro, USA
Yarui Chen, Tianjin University of Science and Technology, China
Yatong Zhou, Hebei University of Technology, China
Yibin Tang, Hohai University, China
Yiheng Cai, Beijing University of Technology, China
Yilei Zhao, Shanghai Jiao Tong University, China
Ying Wu, Xi'an jiaotong university, China
Yogesh Meghrajani, Dharmsinh Desai University, India
Yong Yang, Jiangxi University of Finance and Economics, China
Yong Yue, Xi'an Jiaotong-Liverpool University, China
Youjun LI, Xi'an jiaotong university, China
Younkwan Lee, Gwangju Institute of Science and Technology, South Korea
Yousif Elhadi Elsideeg Ahmed, University of Gezira, Sudan
Yu Yuan, Nanjing University of Information Science and Technology, China
Yuan Wang, Tianjin University of Science and Technology, China
Yuanjie Su, University of Electronic Science and Technology of China, China
Yujin Zhang, Shanghai University of Engineering Science, China
Yunchun Zhang, Yunnan University, China
Zbigniew Leonowicz, Wroclaw University of Science and Technology, Poland
Zhao Su, Jiangxi University of Finance and Economics, China
Zhe Chen, Dalian University of Technology, China
Zhenhua Chai, Huazhong University of Science and Technology, China
Zhenming Peng, University of Electronic Science and Technology of China, China
Zhi Kong, Northeastern University, China
Zhiwei Gao, Northumbria University, UK
Zhou Jinghua, North China University of Technology, China
Zhuhua Hu, Hainan University, China

Emerging artificial intelligence technologies in healthcare

Prof. Huiyu Zhou

School of Computing and Mathematical Sciences, University of Leicester, UK

Abstract of the talk:

Artificial intelligence has significantly influenced the health sector for years by delivering novel assistive technologies from robotic surgery to versatile biosensors that enable remote diagnosis and efficient treatment. While the COVID-19 pandemic is devastating, the uses of AI in the healthcare sector are dramatically increasing and it is a critical time to look at its impact in different aspects. In this talk, I will introduce the application of new deep learning models in medical image understanding. Then, I will discuss Parkinson's disease (PD) whilst investigating the behaviour analysis of PD mice. I also present the use of machine learning technologies in sentiment analysis, followed by the discussion on several challenges.

Keywords: Artificial intelligence; healthcare; image segmentation; behaviour analysis; challenges.

Bio of the presenter:

Prof. Huiyu Zhou received a Bachelor of Engineering degree in Radio Technology from Huazhong University of Science and Technology of China, and a Master of Science degree in Biomedical Engineering from University of Dundee of United Kingdom, respectively. He was awarded a Doctor of Philosophy degree in Computer Vision from Heriot-Watt University, Edinburgh, United Kingdom. Dr. Zhou currently is a full Professor at School of Computing and Mathematical Sciences, University of Leicester, United Kingdom. He has published over 400 peer-reviewed papers in the field. He was the recipient of "CVIU 2012 Most Cited Paper Award", "MIUA 2020 Best Paper Award", "ICPRAM 2016 Best Paper Award" and was nominated for "ICPRAM 2017 Best Student Paper Award" and "MBEC 2006 Nightingale Prize". His research work has been or is being supported by UK EPSRC, ESRC, AHRC, MRC, EU, Royal Society, Leverhulme Trust, Puffin Trust, Alzheimer's Research UK, Invest NI and industry. Homepage: https://www2.le.ac.uk/departments/informatics/people/huiyu-zhou.

Cybersecurity - A Game Theory Approach:
Issues, modelling and computer science applications

Prof. Sardar M. N. Islam (Naz)
Professor, ISILC, Victoria University, Melbourne, Australia.
Distinguished Visiting Professor of Artificial Intelligence, UnSri.

Abstract:

Cybersecurity is a multiagent system where intelligent agents interact, formulate strategies, fight, cooperate, coordinate, design systems, and plan actions to achieve their goals of cybersecurity or hacking and malicious damages. Game theory analyses and formulates strategies and designs rules or mechanisms for this cybersecurity multiagent system on the basis of artificial intelligence. For specifying, characterising and modelling and designing this intelligent multiagent system, mathematical game theory models of different forms can be developed, such as static, dynamic, evolutionary, differential and stochastic game theory models. Different algorithms such as Nash equilibrium, joint optimisation, evolutionary algorithms, neural networks, genetic algorithms, and other machine learning algorithms can be applied to different game theory models for analysing, solving, and computing these cybersecurity models. Findings from these models are used to formulate strategies, cooperate, coordinate, design systems, and plan actions by different intelligent agents and authorities in cybersecurity. Game theory application in cybersecurity is an important area in computer science for doing highly useful academic and practical cybersecurity activities and for academics and practitioners to build their careers. Therefore, it is necessary to prioritise this area of game theory in cybersecurity in computer science for research and development.

Short Bio:

Professor Dr. Sardar M. N. Islam (Naz) is Professior from Victoria University, Australia. As he has lived, studied, and worked in different countries and visited (extensively) different regions of the world for a long period, he adopts a global and humanistic approach in his research and academic works and he has undertaken rigorous scientific studies of emerging issues of different disciplines of artificial intelligence, business analytics, digitalisation, management science, etc. His academic work has gained international acclaim, resulting in many (1) Honours and Awards, (1) distinguished visiting or adjunct professorial appointments in different countries, (2) appointments in editorial roles of journals and (3) keynote speeches at international conferences in several countries. He has published 31 scholarly academic books in different disciplines. Each of these books makes significant scientific contributions to the literature. These books are published by prestigious publishers and the majority of books are published in highly regarded book series. He has also published about 250 articles**,** including some top leading international journal articles in his specialised research areas.

Improving Biometric Iris Recognition System Technology with Optimum Feature Extraction

Prof. A Taha
Auckland, New Zealand
Chengdu University, China

Abstract:
Iris-based biometric recognition systems have become an area of great research interest and been well studied for authentication purposes and has been proven accurate in large scale applications in several airports and border crossings around the world. Consequently, researchers are focused on finding suitable features can extract from iris images that can be used as indexes the stored templates in a manner that enables access to and retrieval of those data by efficient search processes. We propose a method that extracts the most relevant features of iris images to facilitate minimization of the indexing time and the search area of the biometric database, the expected results will be showing a significant performance improvement in terms of bin miss rate and penetration rate compared with conventional methods.

Short Bio:
Dr A Taha is an Honorary Professor and External Advisor from New Zealand and High-end Foreign Expert at Widad University College & CDU. His research interests include improving biometric system technology with optimum feature extraction and various topics related to IT and medical research. His research results have been published in more than 50 papers in international journals and conferences, including various SCI/SCIE/IEEE indexing. He received various awards such as Chosen for Who's Who in Medicine and Healthcare 2010. He is currently an editor board member for several international journals.

Corporate Knowledge Management Research: An Integrated Perspective

Lin Wang PhD, Associate Dean, Distinguished Professor
Chinese Academy of Science and Education Research, Hangzhou Dianzi University, China

Abstract: Knowledge management is the explicit and systematic management of vital knowledge - and its associated processes of creation, organization, diffusion, use, and exploitation. It is a process to help organizations identify, select, organize, disseminate, transfer knowledge. In this speech, I illustrate that how an understanding of knowledge and the knowing process differ from information and information management. Based on the taxonomy of explicit and tacit knowledge, I put forward a corporate knowledge management model. I also discuss the management strategies dealing with different kinds of knowledge. Nonaka's SECI model of knowledge creation and knowledge spiral process of knowledge theory are analyzed in detail. The innovation cycle and knowledge management cycle are compared. Three knowledge management models and traditions, documentalist, technologist, and learner & communicator models are introduced in the speech. I also discuss the success factors of corporate knowledge management. The difference in knowledge management in eastern and western countries is elaborated. Some main issues of knowledge management systems are briefly reviewed.

Biography: Lin Wang is a distinguished professor of information science at Hangzhou Dianzi University. He was a visiting professor in University of California Berkeley, Nanyang Technological University. Lin is a guest research fellow in the National Information Resource Management Institute at Beijing. He was awarded Young Information Scientist by China Society for Scientific and Technical Information. He is a trustee of Tianjin Society for Chinese Information Research and Tianjin Association of Public Administration. He is also a member of editorial board of American Journal of Information Management. He has been elected as an expert of Xinhua News Agency Outlook Think Tank. He is a reviewer of program committee for many international conferences, such as iConference and ASIS&T. Recently Lin became the Session Chair (Long Paper) ACM/IEEE Joint Conference of Digital Libraries 2020. He got his PhD degree of information science from Peking University. His research interest includes foundation of information science and information philosophy. He has hosted more than 20 academic projects. He has published more than eighty academic papers in the international LIS journals like Journal of Documentation and Information Research, and leading peer-reviewed information science journals in China. His several papers were awarded as the best paper in the national academic organizations such as Chinese National S&T Information Society, Chinese S&T Communication Society.

Conference Schedule

Date	Time	Standard Room
2022-07-22	09:00-09:10	Opening Remarks Prof. Chunhui Piao
	09:10-09:50	Keynote by Prof. Huiyu Zhou
	09:50-10:30	Keynote by Prof. Sardar M. N. Islam (Naz)
	10:30-11:10	Keynote by Prof. A Taha
	11:10-11:50	Keynote by PhD, Lin Wang
	12:00-13:30	Noon Break
	13:30-17:30	Oral Session A
2022-07-23	09:00-12:00	Oral Session B
	12:00-13:30	Noon Break
	13:30-17:30	Oral Session C
2022-07-24	09:00-12:00	Oral Session D
	12:00-13:30	Noon Break
	13:30-17:30	Oral Session E

Instructions for Presentations

Oral Presentation

Devices Provided by the Conference:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively): 20 minutes

Regular Oral Session: about 20 Minutes of Presentation

Keynote Speech: 40 Minutes of Presentation

Poster Session

Poster Session at Standard Room. The time at July 22-24, 2022

Devices Provided by the Conference:

Space and nails

Materials Provided by the Presenters:

90cm(h) × 60cm(b) poster

July 22, 2022

09:00—09:10 Opening Remarks

Prof. Chunhui Piao, Shijiazhuang Tiedao University, China

09:10-09:50 Keynote 1

Title: Emerging artificial intelligence technologies in healthcare

Prof. Huiyu Zhou

09:50-10:30 Keynote 2

Title: Cybersecurity - A Game Theory Approach: Issues, modelling and computer science applications

Prof. Sardar M. N. Islam (Naz)

10:30-11:10 Keynote 3

Title: Improving Biometric Iris Recognition System Technology with Optimum Feature Extraction

Prof. A Taha

11:10-11:50 Keynote 4

Title: Corporate Knowledge Management Research: An Integrated Perspective

PhD, Associate Dean, Distinguished Professor, Lin Wang

12:00-13:30 Noon Break

13:30-17:30 Oral Session A

1286	Research on TCAS Warning Risk of Transport and Training Aircraft in Related Parallel Approaches	Wei Jun Pan, Ya Xing Xu*, Jing Kai Wang
1299	Flight delay prediction based on ARIMA	PAN Weijun, WANG Jingkai
1317	Energy Consumption Prediction and Diagnosis of Heating Ventilation and Air Conditioning System Based on Bidirectional LSTM Method	YiLin Cong, LiTong Hou, YiCheng Wu, YongZhi Ma
1318	Research on the application of online teaching method in theory teaching	Jianguo Hu∗, Xianlan Lan, Hongxia Guo
1322	Examining Users' Continuous Use Intention of AI-Enabled Online Education Applications	Hong Sheng, Hong Xiao
1326	A note on equivalent implementation complexity, computational and memory efficiencies of the standard and nearly perfectly matched layers for the second-order wave equation	Zhinan Xie1, 2, Yuan Yangtao1, Liang Fuyuan1, Zhang WenYue1
1328	Factors Influencing Users' Intention to Adopt Intelligent Customer Service: A Task-Technology Fit Perspective	Hong Sheng, Jinrui Wang, Zijing Xu
1329	A BERT-based Text Sentiment Classification Algorithm through Web Data	Ganhua Li1, 2, Bo Kong1, 2, Jiancheng Li1, 2, Henghai Fan1, 2, Jian Zhang1, 2, Yuan An1, 2, Zhenglei Yang1, 2, Shengrong Dang3, Jiancun Fan3
1330	A Random Forest-based Operating System Recognition Algorithm for Network Security	Henghai Fan1, 2, Bo Kong1, 2, Ganhua Li1, 2, Jiancheng Li1, 2, Jian Zhang1, 2, Yuan An1, 2, Jianping Wan1, 2, Zihao Zhang3, and Jiancun Fan3
1331	Image Enhancement Method Based on Dark Channel Prior	Dan LI, Weiwei Liu, Hanqin Shi*, Likai Wang, Hongdong Wang

1340	A Study on the Parameters of Barrier-free Elevator Control Panel and the Optimization Strategy for the Visually Impaired	Xiaoning Jiang, Shuchen Wang
1428	An Overview of Time Sensitive Communication Technology	Jincan Xin, Sen Xu, Hua Zhang, Shangkun Xiong

July 23, 2022
09:00-12:00 Oral Session B

1355	Research on the Spatial Association Characteristics of Financial Agglomeration in Beijing-Tianjin-Hebei City Cluster Based on Social Network Analysis Method	Caina Jiang, Jie Hu*, Jianming Chen, Xiangyu Ge
1356	The dynamical analysis of the electroencephalogram rhythm oscillation for the epileptic predictionseizure prediction and rhythm oscillation	Jiajia Li, Chong Liu, Zhao Feng, Ying Wu*
1368	Under-Gravity Surface Optimization of Antenna Mesh Reflector	Guanlong Su, Yang Li, Yesen Fan, Pengfei Huang, Xiaofei Ma*
1373	Application of a New VAE-MF Generative Model in TCD Dataset	ZHANG Xueying*, CHEN Xiaoyu, GUO Yuling, WANG Suzhe, JIA Wenhui
1374	DP-BEGAN: A Generative Model of Differential Privacy Algorithm	Er-Mei Shi, Jia-Xi Liu, Yuan-Ming Ji, Liang Chang*
1376	A Big Data Encryption Method based on Lorenz and Feistel Structures	Yang-Hao Wu, Xiao-Han Huang, Jia-Xi Liu, Liang Chang*
1380	An optimized wood knots recognition scheme based on double detection	Xiao Wang
1381	Workload Prediction based on GRU-CNN in Cloud Environment	Zhihao Gan, Peng Chen*, Chun Yu, Juan Chen, Kang Feng

12:00-13:30 Noon Break

13:30-17:30 Oral Session C

1383	Trolley Remote Control System Using Eye Motion Tracking	Shuying Rao, Zichen Kong, Wenli Lan, Hui Yang, Yue Leng, Sheng Ge*, Ruimin Wang, Keiji Iramina
1396	Energy saving potential analysis on water pump frequency conversion technology in indirect sewage source heat pump system	Mingzhu Li, Yanan Li
1397	Extending the Control System by Integrating AI Models	Jun Luo, Zhigao Ni, Xingquan Xie, Xiaowei Zhou, Li Li, Zhiyu Tian
1403	Research and application of electric power inspection technology based on intelligent wearable	NIU Jian, HE Jianan, LIU Haitao, LI Lei, YIN Liang, WANG Fang
1433	Modular Analysis on Increasing Chinese Economy Based on Complex Network	Peihua Feng, Ke Xie, Yongchen Fan, Ying Wu

1435	Ultra High SNR 3D Imaging Clustered LiDAR Technique for Underwater Targets	Yang Xingyu*; Liu Alang; Zhang Yuan;Zhao Yanduo;Zhao Yuechao; Piao Chunhui, Zhao Yakun;Dong Xianglan
1436	Research on high-voltage discharge arc detection method based on binocular stereo vision	Zhang Yuan;Yang Xingyu*;Zhao Yuechao;Zhao Yanduo; Liu Alang; Piao Chunhui, Dong Xianglan
1437	Research on 3D visualization technology of electromagnetic source arc based on machine vision	Zhao Yuechao; Yang Xingyu*; Zhang Yuan; Liu Alang;Zhao Yanduo;Piao Chunhui, Zhao Yakun;Dong Xianglan
1439	Implementation of aerodynamic identification technology based on the fastest descent method	Wang Yunhai, Li Chenxi, Cong Wei, Chen Feng, Mu Xu, Wang Biao
1341	Construction of Chinese Character Semantic Knowledge Graph for Overseas Chinese Learners	Jing Xiong, Guoying Liu, Tao Guo, Yining Chen

July 24, 2022
09:00-12:00 Oral Session D

1450	Research on multi baseline large depth 3D imaging	Yang Xingyu*; Zhao Yanduo; Zhao Yuechao;Zhang Yuan; Liu Alang; Chen Xiao;Piao Chunhui, Zhang Jianchao;Zhao Yakun;Dong Xianglan
1453	PAPR Reduction in OFDM-IM Using Dither Signal Sets	Si-Yu Zhang, Hui Zheng
1468	Geological Disaster Emergency Decision Support System based on Location-Based Service	Zhenlin Fan, Yang Cao, Baofeng Zheng, Bin Wu, Fengzhe Li
1476	Prediction of rolling bearing performance degradation degree based on SE_LSTM	Xinna Ma, Haonan Luan, Shangjun Zhao, Tianyun Niu, Xinru Liu
1491	ACAU-Net: Atrous Convolution and Attention U-Net Model for Pavement Crack Segmentation	Feng Jun*, Li Jiakuan, Shi Yichen, Zhao Ying, Zhang Chenyang
1493	Neighborhood Focused Critic Policy Gradients for Multi-agent Reinforcement Learning	Nanxun Duo, Qinzhao Wang, Qiang Lv, Pei Zhang
1495	Application of Cointegration Theory on Degradation Feature Extraction of Rolling Bearing	Xinna Ma, Xinru Liu, Shangjun Zhao, Haonan Luan, Tianyun Niu
1499	Scheduling Strategy of Virtual Device Based on Wake-up and Semi-sleep Mode	Bing Qin, Hui Shen

12:00-13:30 Noon Break

13:30-17:30 Oral Session E

1505	Text-to-Image Person Search Based on SSAN Model and Re-rank Post-Processing	Zhang Chenyang, Feng Jun*, Wang Jiaqing
1508	Vehicle Detection in Traffic Monitoring Scenes Based on Improved YOLOV5s	Liu Xiaomeng, Feng Jun*, Chen Peng
1511	Asphalt Pavement Crack Image Screening by Transformer-Based Model	Wang Ziwei, Feng Jun*, Zhang Tian

1515	Bearing fault diagnosis Based on 1-D DenseNet-LSTM	Zhihong Zhao 1, 2, Kejian Liu 1, 2, Jingjiao Zhao 1, 2
1524	Differential Privacy High-dimensional Data Publishing Method Based on Bayesian Network	Xiaotian Lu, Chunhui Piao
1530	Design and Implementation of A Universal Process Parameter Display Instrument Based on ARM and FPGA	Kunming Zhao, Nanhang Luo, Jiannan Liu, Wei Ding, Wei Jiang, Liang Li
1536	Remaining useful lifetime prediction of rolling bearing based on ConvNext and multi-feature fusion	Xinna Ma, Tianyun Niu, Xinru Liu, Haonan Luan, Shangjun Zhao
1548	Research on evaluation of coupling coordination degree between tourism industry and cultural industry	Feng-ke Wang, Chenchen Jiang
1556	RESEARCH AND PRACTICE OF REMOTE SENSING CROP WATER CONSUMPTION MONITORING PLATFORM IN CHINA	He Chen*, Di Zhang, Zheng Wei, Dingxing Xie
1563	The Implementation of Movies and TV Plays Analysis System Combined with Knowledge Graph and Data Visualization	Fan Yang, Yong Yue, Gangmin Li

Poster Session

1281	A deep reinforcement learning method based on attentional memories	Libin Sun, Gao Biao, Haobin Shi
1282	A novel design for a gated recurrent network with attentional memories	Libin Sun, Gao Biao, Haobin Shi
1283	Exploring Hierarchical Language Knowledge in Graph Neural Networks for Fake News Detection	Fan Xu, Minghao Li, Qi Huang, Keyu Yan, Mingwen Wang
1284	Research on SAR Image Processing Performance Based on OpenMP and CUDA Parallel Model	Yanbin Zhao, Yang LIU
1285	Research and Application of Face Recognition with Feature Fusion of Global and Local Structure	Wang zheng-you
1287	A readout circuit for CNTFET-based infrared image sensor	Qi Lin, Shikai Zuo, Chen Wang, Chengying Chen*
1289	5G network slicing technology and its implementation in industrial Internet	Liu Ya, Xiao Juan
1292	Research on the Development and Governance of China's Public Health Service System during the "14th Five-Year Plan"	Min Dan, Luo Minchao, Xiong Feng
1293	Research on improving social service ability of local university libraries based on Wuhan City Circle	Tang Li

1295	The Mathematical Estimation Model of Parallel Minimum-Computing-Time Node Size	Yue Hu, Zhen Yan
1300	Research on the Applicability of the Calculation Methods for Short-Circuit Current DC Component	Jian Li, Xiaopeng Zhang, Wei Yao, Jiangong Xu, Xiaoliang Shi, Fei Ren
1301	Promoting Digital Campus to Smart Campus Based on Artificial Intelligence	Ruixia Cao
1303	Semi-supervised Medical Image Classification Combining Metric Pseudo-Label and Classification Pseudo-Label	Boya Ke, Huijuan Lu*, Wanli Huo, Yanbin Wang
1307	Relationship value in the Digital Era: New Ideas for the Communication of National Trendy Brands— Taking China Li Ning as an Example	Tao Shuoyu, Xi Yang
1308	Research on characteristics and simplified function of pedestrian head injury criterion (HIC) based on mathematical analysis	Yuanjin Pei, Song Wang
1309	Electricity Consumption Forecasting Based on PC-CNN-BiLSTM Combined with Layered Transfer Learning Strategy	Fulian Ouyang, Jun Wang, Hangxia Zhou*
1311	Research on architecture and technology application of smart Park Based on 5G cloud network	Huibin Duan, Yuying Xue, Peng Ding, Yun Shen, Dan Liu, Qiuhong Zheng
1312	Collaborative Filtering Hybrid Recommendation Algorithm based on Optimal Weight*	Qiaochu YU, Mingqing ZHAO*, Yuting LUO
1313	CDBSCAN: Density clustering based on silhouette coefficient constraints	GUO Jin-heng1, 2, LIN Jia-xiang1, 2*, ZHANG Zhen-chang1, LING Han-yu1, 2
1314	Calibration of the initial position angle by back EMF zero crossing method based on DA chip	LIN Qiang-qiang, ZHANG Dong-ge, LONG Hai-feng, HE Yu-ang
1315	Topic Detection of Multi-feature Fusion in the Financial Field	Jiakun zhao*, Ji Hang, Sun Kun
1316	PLC-based control system design of integrated bagging and stalking and grading snapping sorter for pears	Hao Zhang1, Yue Xu4, Yuhang Zhang5, Xuesong Suo*., Xiaoyun Peng2., Yongliang He3.
1320	Human motion prediction based on bidirectional feature sequence learning	DuWei, YuYa-nan *, PanQi
1323	Super resolution image visual quality assessment based on feature optimization	Shu Lei, Huang Zijian, Yan Jiebin, Wang Ruonan, Fan Jiacong
1324	Research on Fast Beam Alignment Technology at Target Area Based on Swarm Collaboration Control Model	Xingquan XIE, Jun LUO, Zhike CAO, Xiaowei ZHOU, Tianyou YUN, Li LI
1327	Computer Simulation of Freeze-thaw Cycle in Long'en Hall of Zhaoling Mausoleum in Shenyang City, China	Xiaoyu Wang, Jing Wang

1332	Optimization of Vehicle Suspension Parameters Based on SIMPACK/Isight Simulation of Wheel Eccentric Out-of-roundness	1st Zhihui Huang*, 2nd Jianjun Zou, 3rd Zhikang Liang,
1334	Research on Intelligent Interpretation Algorithm of Launch Vehicle Telemetry Data	Pengcheng Li, Haidong Chen*, Shipeng Li, Junqing Qi, Yanze Lian
1335	A Mechanism and Control Design of Flexible Spine driven by Pneumatic Artificial Muscles	Liyun Fang1, Enyi Xu2, Weiyi Zhou1, Kun Zhou2*
1336	Bearing Fault Diagnosis Based on Pooling Weight Multi-scale Convolutional Neural Networks	Chunhua Chen, Lei Huang, Yinghua Yang
1338	Industrial Part Image Retrieval Combining Convolution and Attention Features	Qijun Shao, Yuanyuan Qi*, Li Yang, Bin Wu
1342	Advance Algorithms of Secchi depth Remote Sensing	WANG Yi, ZHOU Shudao, ZHAO Shijun
1343	A new multiple targets tracking algorithm based on improved MHT algorithm	Sun Wei1, 2 , Han Yu1, 2
1344	Extended State Observer Based Nonsingular Terminal Sliding Mode Control for a Class of Dynamic Systems	Min-Yi Wang, Jiaqianhao Yang and Jing-Jing Xiong
1345	Extended State Observer Based Sliding Mode Control for a Class of Dynamic Systems with Input Constraint	Jiaqianhao Yang, Min-Yi Wang and Jing-Jing Xiong
1347	Flight test Methods of SINS Borderline Performance Based on Quasi-level Uniform Design	Zhenyuan Wan*, Hai-tao Liu, Xue-ni Huang
1348	Intelligent Ship Decision System Based on DDPG Algorithm	Zhewen Cui*, Wei Guan, Wenzhe Luo
1349	Research on Face Recognition Algorithm Based on Numerical value of Facial Feature Points	Wanzhen Zhou, Xintian Miao, Jianxia Wang
1350	User Clustering Based on the Topic-Sentiment Analysis	Li Dun, Ma Liyuan, Li Lun
1351	A Object Detection Algorithm Incorporates Lightweight Network and Dual Attention Mechanism	Kuihe Yang, Meiling Sun, Yi Liu
1352	Application research of logisticMF Recommendation Algorithm based on experts and data characteristics	Haitao ZHANG, Pengcheng LI
1353	Improving Long-lead ENSO Prediction with Joint ENSO Transformer	Jiakun Zhao, Hailun Luo, Weiguang Sang, Kun Sun
1354	Surface Defect Detection Method for Steel Bar Based on Correction Attention YOLOF	Chaolin Yang, Jie Shi*, Kunpeng Wu
1358	A prediction model for slope stability based on the support vector machine	Yong-shun Zhang, Feng Ming, Ming-jun Chang

1359	Applications of AI to Age-Related Macular Degeneration: a case study and a brief review	Han Wang, Zefeng Li1*
1360	Design and Application of Instrument Remote Operation and Maintenance and Intelligent Analysis Platform Based on Edge Computing Technology	Huaifeng Wen1, Guihua Zhang1, Haodong Zhang
1362	Short term wind power prediction based on improved quantum particle swarm optimization algorithm and kernel extreme learning machine	Ning Ma, Zhenyong Yang, Lei Liu, Aiguo Gao, Yong Shang, Jingqiu Kang, Tianmu Qin
1363	Eye-tracking-based robotic arm control system	Zichen Kong, Shuying Rao, Hui Yang, Wenli Lan, Yue Leng, Sheng Ge, Ruimin Wang, Ruimin Wang
1367	A CNN-Transformer Hybrid Network for Joint Optic Cup and Optic Disc Segmentation in Fundus Images	Xue Xia, Zhuxiang Huang, Zijian Huang, Lei Shu*, Lin Li
1370	Power System Fault Diagnosis Based on Multi-Sensor Data Fusion for Large-Scale Railway Maintenance Equipment	Hairui Wang, Junming Li, Junjie Zhang, Guifu Zhu*
1372	Image-Based Automatic Crack Detection Method of Gantry Crane Track	Jiaqi Li1, Yitong Zhang1, Zhaojie Lu1, Xu Zheng1, Zhiyuan Wang1, Cheng Li2
1377	A Unilateral Compensation Network With Any Constant Current Output in WPT System	Feng Fan, Qingbin Chen
1379	Discussion on the Planning and Design of Urban landscape Based on GIS, Taking Dongcheng District of Beijing as an example	Wen Zhang, Kai Huang
1384	Research and implementation of resource recovery supply chain financial platform based on blockchain technology	Song Tang, Zhiqiang Wang *, Suli Ge, Yandong Ma, GaiFang Tan
1386	A value meta-model for crossover services modeling	Zhengli Liu
1387	Terrain Classification of Polarimetric SAR Images Based on Optimal Polarization Features	Yangyang Wang, Xuwen Mao, Weidong Chen, Wuhu Lei
1388	Data poisoning attacks on federated learning by using adversarial samples	Lei Shi* , Zhen Chen* , Yucheng Shi†, Guangtao Zhao§, Lin Wei* , Yongcai Tao‡and Yufei Gao*
1389	Unified Framework for NER and RE Tasks with Strong Interpretability on Chinese Medicine Instruction Parsing	Ya Zhang* †, Shuai Yang†, Hao Wen†, Pei Xie† Yuanqing Wu†
1391	SA-EfficientNet: Quality grading model of Stropharia rugoso-annulate	Yinhua Zuo, Mingyan Zhao
1393	Improved Graph Convolutional Neural Networks based on Granger Causality Analysis for EEG Emotion Recognition	ZHANG Jing, ZHANG, Xueying(*), ZHAO Qing
1395	Prognostic analysis of patients with non-small cell lung cancer based on Bayesian network model	CUI Yu-rong, SUN Fang- bin, YIN Meng-fan, FU Jia-ning, WANG Su-zhen, KONG Yu-jia

1398	Research on Torque Control Algorithm for Path Planning of Free Floating Space Robots Capturing Target	Huazhong Li
1399	A Review of the types of disturbances and suppression methods for SiC MOSFET driver	Zhi ZHENG, Feng WANG, Fang ZHUO
1401	Improved differential privacy K-means clustering algorithm for privacy budget allocation	Liquan Han, Yushan Xie*, Di Fan, Jinyuan Liu
1402	Garbage Detection on The Water Surface Based on Deep Learning	Xinyan Yin†, Jiatang Lu, Ying Liu
1407	Underwater positioning method based on polarization characteristics	Fengping Kan, Huibin Wang*, Jie Shen, Zhe Chen
1408	Preparation of Low-active MgO from Microcrystalline Magnesite and Its Application in the Production of Acetate Fiber	TIAN Xiaoli1, 2, 3 LI Zhixun1, 2, 3 FENG Runtang1, 2, 3 LIU Guichang2 XIN Yu2, WANG Yonghui2 DU Yongbin3 WANG Zhenshuang1
1422	Distribution grid fault diagnosis based on SR-GRU and fault indicator	Fan LI, Xing HE*, Ran CHEN, Yi WU, Yingjie TIAN
1423	An improved YOLOv5-based bird detection algorithm for transmission line	Tianyu Wang1, 2, Yongkang Zheng1, Haijie Ma2, Chao Wang3, Yong Liu4, Xuxu Li3
1427	ON THE ONLINE SOCIAL INTERACTIONS IN KNOWLEDGE BUILDING COMMUNITY	Shuhong Gong1 Yaping Li2 Xue Zhang1
1430	Research on the Construction and Application of Smart Classroom Teaching Service Platform Based on Big Data	JianHua Xie, Xi Zhao, Yongjun He, Zhe Chen
1431	Mitigation of Non-stationary Jammings with Missing Samples for GNSS Using Sparse Representation	Yuetao Ren, Yongfeng Zhi* , and Jun Zhang
1432	A lightweight convolutional neural network model optimization method for ARM platform	Xuqiang Wang, Jian Zheng, Yao Jin, Yifan Yang, Yang Zheng
1434	A Novel End-to-End Visual Odometry Framework Based on Deep Neural Network	Yinan Wang, Rongchuan Cao, Yingzhou Guan, Xiaoli Zhang*
1438	Research on Short Video Production of Taijiquan Teaching under Information Technology	Guo ying
1440	Analysis and Research About Different Cooling Structures of Piezoelectric Fans	Qing Lin, Kun Wang, Juyan Ni, Xiaoyu Chen, Yanyong Wang, Lidan Li
1442	Safety evaluation of naval ship wire rope based on safety factor	G.X.Hu, W.Lin*, L.J.Liu, F.G.Shen
1443	Oil Spill Detection in SAR Images based on Improved YOLOX-S	Fang-Yuan Xu, Xiang-Ze An, Wen-Qi Liu
1445	Predicting severity of software vulnerability based on BERT-CNN	Xuming Ni, Jianxin Zheng, Yu Guo, Xu Jin, Ling Li

1452	Spectral Unmixing Model Based on Non-negative Matrix Factorization with Spatial and Spectral Correlation Constraints	Bo Yuan
1454	Underwater Sound Source Localization Based on Time-Reversal Mirror and Virtual Array	TONG Haoyang, Liu Yucai, Yi Wensheng, Chen Yi
1455	Coverage Detecting of Sweeping Robot Based on Binocular Vision	Zhiwei Chu, Yigang Wang, Jiaqi Lian, Mingwei Zhang, Shi Li*
1456	An improved Multi-objective Grey Wolf Optimization Algorithm Based on Multiple Strategies	Xiaohuan Tian, Qiqi Hu, Chun-an Liu
1460	Research on student academic precaution model based on IWPA-BP neural network algorithm	Xin Jing/ Hao Gao
1461	Research and application of improved k-means algorithm based on educational big data	Ruonan Gu/ Xin Jing / Di Zhao/ Lei Cai / Hao Gao
1463	Underwater Object Tracking By Image Enhancement And Feature Fusion	Huibin Wang1*, Ying Lu1, Zhe Chen1, Jie Shen1, Min Zhang1
1469	Analysis on Data Simulation of Spatial Resolution of Resistivity Based on Audio Magnetotelluric Method	Fengzhe Li, Qingjun Zhu, Le Zhou, Hui Long, Zhenlin Fan*
1471	Application Research of Improved Canny Operator in Mine Foreign Body Edge Detection	QIN Yu-xin1, a, XIONG Xin-meng1, b *, ZHANG Wen-li1, c
1472	Research on the Value Derivation Mechanism of Urban Comprehensive Energy Data and the Construction of Energy Consumption Prediction Model	Chen Ying
1473	Implementation of GraphFrames-Based Parallelized Label Propagation Algorithm in Clusters	Jianxia Wang, Yu Shi, Yunfeng Xu
1475	Anomaly detection based on memory-augmented in computer room laboratory	Jianxia Wang, Wenying Liu, Yunfeng Xu
1478	Feature Fusion Method based on Discriminant Correlation Analysis for Land Use Classification with Few-Shot	Song Yang, Huibin Wang, Hongmin Gao, lili Zhang
1480	ESR Calutation Model of Metalized Film Capacitor in WPT System	Xu Zhang, Qingbin Chen
1481	A Joint Extraction Strategy for Chinese Medical Text Based on Sequence Tagging	JIAJIA LI, DONGRU RUAN
1482	An ensemble learning-based two-level network intrusion detection method	Jianxin Zheng, Xuming Ni, Lifeng Li, Kan Yu, Jun Zhang
1485	Research on Infrared Image Super-Resolution Based on Enhanced Generative Adversarial Network	Lihui Sun,Yiyou Zhao
1486	Analysis of key nodes in airline network based on complex network--Tibet Airlines route network as an example	Qing Cheng, Sizhen Wang, Xiaohong Shi, Dechao Wang
1487	An Interpretable Question Answering Method Based on Heterogeneous Graph Neural Networks	Yongliang Wu*, Qianqian Zhou*, Hu Yin*, Dongbo Liu*

1488	Text Semantic Representation Based on Knowledge Graph Correction	Yongliang Wu*, Hu Yin*, Dongbo Liu*, Qianqian Zhou*
1489	An Answer Recommendation Algorithm Based on Semantic Fusion Heterogeneous Information Network	Yongliang Wu, Dongbo Liu, Qianqian Zhou, Hu Yin
1492	A New Case Teaching Method for Python Course in Software Engineering based on PBL Model	Wenqiang Zhu, Bizhou Xiong, Sirui Tang, Ziqi Yi, Yaqing Deng
1500	Research on dual mode control of micro-grid based on switching system theory	Jinming Luo*, Lei Yao, Jing Gao, Huijie Liu, Xinming Hou
1502	Intelligent Question Answering System for Impeller CNC Machining Based on Knowledge Graph	Hongshen Wang, Jialiang Zhu, Boling Li, Jiayu Zhu
1503	A New Method to Extract Impedance between Input and Output Cables in Radiated Frequency Band of Power Converter	Jianxin Shi, Qingbin Chen
1507	Research on the Technology of Power Adapter Without Input Electrolytic Capacitor Based on One-Cycle Control	Jinshuai Wang, Qingbin Chen, Yaodong Chen, Wei Chen
1510	Studies on Human Recognition Activities Based on Federated Learning	Shuzhen Xu, Yanhong Liu*, Xin He
1512	A combinatorial optimization method based on machine learning for electricity price forecasting	Dingsheng ZHANG, Chen TIAN, Weiwei QIN
1513	Joint Spatio-spectral Patterns for Motor Imagery-based Brain-Computer Interfaces	Shoulin Huang1, 2, Xiaojin Ye1, 2, Weiping Hu1, 2, Jinjie Bi1, 2, ∗, Junhua Zhu
1516	A new hybrid model for short-term volatility forecasting	Wengjing, Huzhengfa
1527	Railway Foreign Object Intrusion Detection based on Deep Learning	Xuewen Ding*, Xinnan Cai, Ziyi Zhang, Wenyan Liu
1528	Character Recognition and Printing Quality Inspection of Chips Under Packaging Film	Hu Tao, Chen Mingyang
1531	AMSNet: Attention-based multi-scale network for image SR reconstruction	Shuying Huang, Mingyang Ren, Yong Yang
1533	Application of deep learning in nondestructive evaluation of metal microstructural grain size	He Wang1, Xue Bai1*, Jian Ma1, Hongqin Wu1, Zhenzhen Zhang 1
1534	Design of collaborative computing mining truck automatic driving system based on AUTOSAR Adaptive Platform	Weixing Su, Shengjie Xu, Fang Liu
1538	Research on travel scheme recommendation model based on logistic regression algorithm	Zhang Weiwei1, Zhao Lin2, Cai Mengmeng1, Sun Yanan1, Guan Yunna1
1541	Research on crack identification of tunnel lining based on image processing	YANG Xiang, QIAO Jiangang
1542	Typical meteorological year development considering climate change during the past decades	Xinying Fan,
1547	Research on Partial Discharge Detection and Location System of Power System Switchgear	Songlin Wu1, Yuyu Zhou2, Hongtao Zhang3 and Li Luo4

1549	Dynamics Analysis of Railway Piggyback Transportation Vehicle in Piggyback Transportation System	LI Chen1, HE Yinchuan2
1550	Analysis of Traffic Characteristics of Dynamic Open Hard Shoulder Road Based on SUMO	ZHANG Zhigang, PENG Rui, QIAO Jiangang
1553	Study on the spatial and temporal distribution of pavement friction coefficients at the tunnel entrance of mountain highways	Zhang Chao, Wang Jie, Qiao Jiangang
1558	Technical analysis of connecting fire protection equipment monitoring system at substation end to remote system	Xiaobin Zhang, Yangchen Zhu, Kun Shen, Liang Xu, Qinghua Zeng, Guangjun Li, Xiang Shen
1560	Research and Application of A New Generation of Lean Management System of Vehicles	Chao FAN, Pengfei DUAN, Wenbiao LI, Daofei SHI, Jian ZHAO, Naichao WU, Zhijun MA
1561	Improved Retinex for low illumination image enhancement of nighttime traffic	Rui Tao1, Tong Zhou2, and Jiangang Qiao1*
1565	Diagnosis of Nitrogen Concentration of Maize Based on Sentinl-2 Images: A Case Study of the Hetao Irrigation District	Rencai Lin, He Chen＊, Zheng Wei, Yinong Li, Nana Han
1568	Language learning system based on big data word segmentation and public opinion detection	Zhao Lin1, Zhang Lihang 2
1571	Beer fermentation control system design based on S7-1200PLC	1.Yang Yongfeng 2.Tong Ying-xin
1573	Research on Calculation Method of Differential Pressure in Irrigation Pipe Network	Ying LIU
1576	Research On The Influence Of Wearable Equipment On Sports Under The Background Of Information Technology	Cao Nan

The secretary of ICCEAI 2022

Ms: Mindy Wang

Tel: +86-13564138859

Email: icceai@icceai.org

http://www.icceai.org