

The 8th International Conference of Artificial Intelligence, Medical Engineering, Education (AIMEE2024)

26-27 October 2024

Huangshi, China

AIMEE2024 Conference Program



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






Wuhan Technology and Business University

<https://eng.wtbu.edu.cn>

AIMEE2024 Conference Schedule – Online

Saturday, 26 October 2024
Beijing time at 10:00 AM

Time Zone Table

 Beijing, China CST (UTC +8)	Sat, 26 Oct 2024	10:00 😊	:
 Amsterdam, Netherlands * CEST (UTC +2) 6 hour(s) behind	Sat, 26 Oct 2024	04:00 😞	:
 Warsaw, Poland * CEST (UTC +2) 6 hour(s) behind	Sat, 26 Oct 2024	04:00 😞	:
 Kyiv, Ukraine * EEST (UTC +3) 5 hour(s) behind	Sat, 26 Oct 2024	05:00 😞	:
 Washington DC, DC, USA * EDT (UTC -4) 12 hour(s) behind	Fri, 25 Oct 2024	22:00 😊	:
 Kuala Lumpur, Malaysia MYT (UTC +8) same as Beijing	Sat, 26 Oct 2024	10:00 😊	:
 Tokyo, Japan JST (UTC +9) 1 hour(s) ahead	Sat, 26 Oct 2024	11:00 😊	:
 Seoul, South Korea KST (UTC +9) 1 hour(s) ahead	Sat, 26 Oct 2024	11:00 😊	:
 Manila, Philippines PHST (UTC +8) same as Beijing	Sat, 26 Oct 2024	10:00 😊	:
 Moscow, Russia MSK (UTC +3) 5 hour(s) behind	Sat, 26 Oct 2024	05:00 😞	:
 Bangkok, Thailand ICT (UTC +7) 1 hour(s) behind	Sat, 26 Oct 2024	09:00 😊	:

<https://www.timeanddate.com/worldclock/converter.html?iso=20241026T020000&p1=33&p2=16&p3=262&p4=367&p5=263&p6=122&p7=248&p8=235&p9=145&p10=166&p11=28>

Important Speeches for AIMEE2024

Join a Zoom meeting

<https://us02web.zoom.us/j/83546528592?pwd=FghA92YyOZoGbZJJ4NqXqn37JavXaw.1>

Meeting ID: 835 4652 8592

Password: 035250

Time		Speakers
10:00-10:20	Open Ceremony	Prof. Matthew He Prof. Q.Y. Zhang Prof. Z.B. Hu
10:20-10:50	Advanced Data Processing in Multi-instrument Transdisciplinary Engineering: Recent Experience from Meteorology and Climatology (Keynote Speech)	Prof. Felix Yanovsky xilef6019@gmail.com
10:50-11:20	Digital Citizenship in the Age of AI: The Shift from Information Consumers to Creators (Keynote Speech)	Prof. Harrison Hao Yang harrison.yang@oswego.edu
11:20-11:50	Hybrid optimization for medical drones with big data processing using BPSO and GA (Keynote Speech)	Prof. Yuriy Ushenko y.ushenko@chnu.edu.ua

<https://www.icics.net/conf/2024/AIMEE2024/index.html#keynoteSpeakers>

Section Chairs: Prof. Q.Y. Zhang, Prof. Vadym Mukhin, Prof. A.V. Petrashenko

Time	Paper ID	Paper Title	Authors
12:00	2705	Design of software control system for quadcopter unmanned aerial vehicle based on STM32	Zhengzhong JIANG, Geng E Zhang
	2719	Structural Design of Multi-functional Underground Cable Laying Device	Xingguo LIU, Nithipattara Balsiri, Caigui HUANG, Zhengzhong JIANG, Geng E ZHANG
	2722	Study On Industry-Academia Synergistic Innovation Networks and Influencing Factors	Jiaqi CAO, Bingfeng LIU
13:00	2730	Analysis on Location Selection and Path Optimization of Hubei SF Express Logistics Distribution Center	Bo LI, Weihui DU, Jie ZHANG
13:00-14:00	Break Time		
14:00	2733	Research and Design of a Near-Image Fruit Picker	Ran QING, Wugang LI, Jiajun Yi, Guanda AN, Xiantai LUO, Fengmei CHEN
	2752	Dietary Recipe Design of Single Objective Programming Based on Analytic Hierarchy Process	Yijia WANG, Yichen FENG, Ruikun FANG
	2767	The Impact of Random Deceleration Probability on Vehicle Energy Consumption in Toll Booth Sections	Jiang ZHAO, Lanxiang WEI, Jingcheng HUANG, Caizhi NONG, Jinsui YANG
15:00	2774	Measuring the Resilience of Green Agricultural Supply Chain under the Background of Rural Revitalization	Yang HU, Yongjun SHEN, Aiman Magde Abdallah Ahmed
	2785	Coupled Development of the Automobile Dismantling Industry and Economic High-Quality Growth in Hubei Province	Ziyang MAO, Xuejiang WEI, Caozheng YAN, Zhiyuan LI, Kevin Xiong
	2788	Pricing and Government Subsidy Strategies with Game Theory for International Railway Freight Transportation	Lijing DU, Hua LU, Shengtao LIU, Qi LIU, Yufei ZHU, Qianwen GUO
	2800	Coordinated Development of Cross-border E-commerce and Cross-border Logistics and Manufacturing Industry in Guangdong Province	Li LI, Meng WANG, Simeng FAN
16:00	2809	Design of Hardware Control System for Quadcopter UAV Based on GY-25T Gyroscope Attitude Detection	Zhengzhong JIANG, Geng E Zhang
	2822	Empowering “Specialized, Refined, Unique and Novel” Enterprises with High Quality Development through Digital Inclusive Finance	Jie YU, Rong HUANG, Yang HU, Aiman Magde Abdalla Ahmed

	2824	Analysis of Differences in Fertility Motivation Based on Data Mining Techniques: Evidence from CFPS Data	Jing ZUO, Yujie HUANG
	2826	Study on the Evaluation of Competitiveness of High-Quality Development of Manufacturing Industry in Jiangmen City	Xiaoshi CHEN, Lei ZHANG, Wei WEI, Jixu ZHU
17:00	2828	Government-Enterprise Disaster Relief Cooperation Strategy Based on Differential Game Theory	Xudong DENG, Liu WANG, Yong WANG
	2840	Optimization Analysis of Cold Chain Logistics Distribution for Fresh Agricultural Products under the New Retail Background	Caihong OUYANG, Weihui DU, Saipeng Xing, Jie ZHANG
	2845	Research Review on China Railway Express Development in Belt and Road Initiative	Lijing DU, Qi CAI, Shengtao LIU, Huixian YAO, Qianwen GUO
	2855	Calculation of Driving Force and Reverse Computing of Contact Force for High-Speed Rail Pantograph Mechanism	Zhengzhong JIANG, Geng E Zhang
18:00	2866	A Tourism Management Model in the Metaverse: Case Study of Guangxi Tourism Products in the Information Age	Siyu PENG, Jiali ZHOU, Yiying WANG
	2879	Analysis of Hotspot and Evolution of Exercise and Obesity in the Perspective of Combination of Sports and Medicine	Yifan Sun, Linfeng Li, Bobo Zong
	2707	Hybrid optimization for medical drones with big data processing using BPSO and GA	Dmytro Uhryn, Yuriy Ushenko, Oleksii Iliuk, Vasyl Lytvyn, Zhengbing Hu
	2593	Application of e-sports game mechanics to stimulate cadets' interest in military and professional disciplines	Igor KOZUBTSOV, Lesia KOZUBTSOVA, Oleksii BESKROVNYI, Nadia SAGAN
19:00	2710	Teaching design and research of general education course of industrial robot based on OBE concept	Jiaqi LI, Wei LIU, Qilai ZHOU, Wei FENG
	2713	Classroom teaching design of the integration of professional education and moral education-Taking big data visualization as an example	Yiming WANG
	2715	The Connotation and Cultivation Path of Craftsmanship Spirit Among Vocational College Students in the Digital Economy Era	Ye MEI
	2725	Research and Practice of Applied Talent Training Mode of Digital Enabling Environment Design Major	Peng XIAO
20:00	2726	Research on Construction of practical teaching system of railway logistics management specialty from the perspective of integration of production and teaching	Qin YANG
	2728	Simulation of the Teaching Model of International Chinese Education Comprehensive Course Based on the Metaverse	Wenjie FAN, Haifeng YANG, Shuyue GAO

	2735	Construction of Curriculum Resource System under the Development of Education Digital Transformation	Xingjian ZHOU, Fan PAN, Jiali PAN, Lihua CAI, Ang CHENG
	2742	The Impact of Service Quality on Brand Loyalty of Guangdong Private Undergraduate Colleges	Xiaoshi CHEN, See Nie LEE, Jixu ZHU, Xiaoyu WANG
21:00	2748	Breaking a Fixed Cognition in Traditional Chemistry Teaching - Taking the Influence of Constraints on Reversible Reactions on the Volume Fraction of Products as the Example	Zhao LI, Yanyun LI
	2761	Empirical Research on the Deep Learning Model of Contextualized and Personalized Curriculum Ideological and Political Education	Jiemin Wang, Bingqing Liu
	2764	Construction and Practice of the "Materials+" Large Model in Undergraduate Teaching	Guanchao Yin, Shaoxuan Gu, Kun Wang, Liwen Lei
	2786	Analysis of Factors Affecting the Occupational Well-Being of Counselors in Guangdong Private Colleges	Jixu ZHU, See Nie LEE, Xiaoshi CHEN
22:00	2790	Exploring the “Three” in Mechanical Framework and its Application in Teaching and Learning	Fengmei CHEN, Wugang LI, Yao SU, Xiantai LUO, Feng NING
	2797	Analysis on the Mechanism of College-Enterprise Cooperation in Cultivating Supply Chain Talents	Feifan HU, Zhihua WU, Shanglin LI, Xiaoqing ZAN
	2798	Application of OBE Concept in the Teaching Reform of Automobile Engine Principle Course under the Dual Carbon Background	Yiyong HAN, Boqian LIU, Changyan DU, Lu BAN, Xudong LIN, Yi FAN
	2810	Construction and Practice of the "Materials+" Large Model in Undergraduate Teaching	Liwen Lei, Shaoxuan Gu, Kun Wang, Guanchao Yin
23:00	2820	Design of Employment Quality Evaluation System for Undergraduates in Universities Based on the BSC Theory	Yan SUN, Qiang SHEN, Yao ZHANG
	2825	Research on fuzzy comprehensive evaluation model of learning quality for virtual assembly teaching system	Jia LI, Zhi WANG, Yanfang YANG
	2833	Construction of International Chinese Teaching Model Based on ChatGPT AI Technology and Empirical Study	Haifeng YANG, Tao HU, Xiaowei WANG
	2849	Co-discuss, Co-create and Co-share the Value of Supply Chain Talent: Case Study of the Supply Chain Engineer Talent Training Base	Zhihua WU, Feifan HU, Xiaoqing ZAN, Shanglin LI
	2806	Electronic Information Educational Environment as an Integral Part of the Educational Process at the University	Zhongfeng Pan, Nataliya Mutovkina
	2715	Interrelations Between the Genetic Coding System, Cyclic Gray Codes, and Boolean Functions	Sergey PETOUKHOV

24:00	2595	Knowledge Discovery and Data Mining Based on Morphological Approach	Dmitry RAKOV
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Sunday, 27 October 2024
Beijing time at 10:00 AM

Join the Zoom meeting

<https://us02web.zoom.us/j/82898635604?pwd=HUruB97hBp9PomIR9Hk49Ke7ML2D9h.1>

Meeting ID: 828 9863 5604

Password: 064794

Section Chairs: Prof. Yin Zhang, Prof. Oleksandra Yeremenko, Prof. Kochan Orest

Time	Paper ID	Paper Title	Authors
10:00	2704	Optimization of Automotive Production Line Scheduling Based on Genetic Algorithm	Mengya ZHANG, Qiang SHEN, Qingying ZHANG, Yixuan ZHAO Mingwei WANG, Yao ZHANG
	2708	Key Factors of Low-altitude Industrial Analysis: Based on ISM-MICMAC Model	Yi ZHANG, Ping LIU, Meng WANG, Yijie WANG, Xin LI
	2724	Optimization of Cold Chain Transportation Path of Pharmaceutical Logistics Based on Roulette Algorithm	Yong WANG, Zechen LIU, Qian LU, Huajun LUO, Lihui WANG
	2744	Three Party Evolutionary Game Relationship and Model of Vocational Education for Elderly Care Professionals in a Deep Aging Society	Bolun LIU, Zhong ZHENG
11:00	2755	Design and Analysis of Optimization Algorithm for High-speed Railway Pantograph Mechanism	Zhengzhong JIANG, Geng E Zhang
	2760	Optimal Design Model of High Temperature Protective Clothing Based on Genetic Algorithm	Bingchan FAN, Shan WU
	2770	The Relationship between E-commerce Logistics Service Quality and Customer Loyalty Based on LSQ-CL Structure Model	Xiaofen ZHOU, Ximei LUO
	2772	Optimization of Fresh Food Cold Chain Distribution Path Based on Improved Particle Swarm Optimization Algorithm	Xiaoying JIN
12:00	2775	Health Prediction and Management Algorithms for High-Speed Train Traction Systems	Hongmei GUO, Lei CAI, Anlin LIU, Huayang QU
	2782	Demand Forecasting Study on Cold Chain Logistics of Aquatic Products in Zhejiang Province Based on Gray GM (1, N) Model	Yong WANG, Jing LI, Xi Vincent WANG, Lihui WANG
	2784	Analysis of Carbon Emissions in Guangxi Logistics Industry Based on Environmental Kuznets Model	Zhong ZHENG, Rongyi XIE, Meiting LIU

13:00	2796	Time Series Forecasting of Logistics Demand Considering Industrial Dependency	Yong WANG, Jiamin ZHANG, Qian LU, Lihui WANG
13:00-14:00	Break Time		
14:00	2812	A Moderated Mediation Model of Parent-Child Attachment's impact on Internet Dependence among Junior Secondary School Students in the Digital Era	Qian WANG, Qiushi ZHANG, Xiang LI, Rujie LIU, Tianyu GUAN
	2817	Wuhan Port Demand Forecasting Based on Variable Weight Combination Forecasting	Hua XIAO, Peng CUI
	2837	Risk Management of Passion Fruit Supply Chain Based on Improved SCOR Model	Lijun JIANG, Rongyi XIE, Jing LI, Huasheng SU, Xiang QIN
15:00	2841	Competitive Strength Analysis and Evaluation of Manufacturing Innovation Development Based on AHP-SVM Model: A Case Study of Jiangmen City	Lei ZHANG, Han GUI, Huiyu LIANG, Lili LIANG
	2847	Research on the Application of Grey System Theory in Predicting the Development of Logistics	Xudong DENG, Xiaoyu ZHANG, Yong WANG
	2856	Prediction of mechanical properties of modified sludge soil based on PSO-XGBoost machine learning algorithm	Kai ZHANG, Xilan YU, Xiangyang FAN, Yaoting ZHU, Haonan DING, Linxin CHAI, Wen XU
	2870	Empirical Study on Talent Integration Development in Wuhan Urban Circle Based on Policy Matrix Model	Dong LIU, Zhengang GUO, Song LEI, Lijing DU, Rongrong LI
16:00	2871	Quantitative Evaluation of China's Computing resources from the East to West Strategy: Based on PMC Index Model	Lu CHEN, Yi ZHANG, Shaofen FANG, Yijie WANG
	2605	Reversible Fault-Tolerant Encryption Using Extended Fredkin Gate With Reconfiguration	Oleksii DOVHANIUK, Taras KYRYLIUK, Vitaly DEIBUK
	2709	Rapid evolutionary adaptation of the LCT gene using a hybrid approach of genetic algorithms and swarm optimization for modeling lactose digestion	Dmytro Uhryn, Yuriy Ushenko, Oleksii Iliuk, Taras Terletsnyi, Zhengbing Hu
	2711	Exploring the Dynamic Correlation Between External Opening Up and Regional Economic Growth Through Crawling Technology	Rongjie Qin
17:00	2712	The Effect of Classification Experience on the Willingness of Users to Continue Using AI Recommender Systems	Li LI, Tao WANG, Dhakir Abbas ALI

	2721	Cross-Modal Image-Text Retrieval in Chinese context	Zexi CHEN, Qizhi QIU, Zixuan YE, Jane Wang
18:00	2746	Optimization Analysis of Multi-vehicle Dispatching for JD Logistics Based on the Scanning Method	Shengnan WANG, Liguo CHEN, Shihua ZUO
	2757	New Liberal Arts Laboratory Architecture Design for Universities Driven by Digital Intelligence Convergence	Meng WANG, Pengbo WU, Kevin XIONG
	2758	Construction and Practice of Intelligent Manufacturing Practice Education System Guided by Intelligence and Driven by Innovation	Pingping LI, Han LIN, Qichang YI, Lin WANG, Huiming SONG, Xianglin WANG
19:00	2779	An Analysis of the Reflection Imaging of Thin Lenses Resulting In a Real Image	Panxing LIAO, Lanxiang WEI
	2792	The Impact of Fundamental Visual Features on Emotional Evaluation: A Technical Analysis Based on a Digitalized Affective Picture System	Ping LIU, Yanlin LIU, Siyu LEI
	2804	Practice and Exploration of Teaching Python Programming for Business Majors Based on Artificial Intelligence Assistance	Jixu ZHU, Jiawen LI
	2815	Research Status and Analysis of International Modern Pharmaceutical Logistics-Citespace-Based Visualization and Analysis	Yong WANG, Guangzu LIU, Xi Vincent Wang, Lihui Wang
20:00	2819	Evaluation Index System of Smart Parking Driven by New-quality Productivity and the "Smart Parking Development Index"	Tao YANG, Chunrong XIE, Yanzhi PANG, Jie SHANG, Dan HUANG
	2823	Comprehensive Evaluation Analysis of Smart Port Logistics Efficiency Based on SBM-DEA Model	Xiaofen ZHOU, Yang YAN
	2831	Integration and Reform Strategies of AI Literacy in Mechanical Automation Education	Huikang LV, Fujiang QIN, Feilong LI, Haziq bin Muhammad

Note: One author of each paper needs to give an online presentation; otherwise, the paper will be removed from the conference book. If you have any questions, please contact us by email aimee@icics.net.