

Technical Program

InS1 Oral Session Invited Session I

Chair: Ms. Du Jing Tsinghua Univ., China

13:10 - 13:25 InS1.1

Enhancing English Vocabulary Learning via Computerized Adaptive Testing, pp. 3-5.

Yang Fang Tsinghua Univ.

Zhang Huanrui Tsinghua Univ.

Yang Mingrui St.stephen's Episcopal School

13:25 - 13:40 InS1.2

Knowledge System Modeling in MOOC, pp. 6-8.

Lingling Wu Tsinghua Univ.

Li Zheng Tsinghua Univ.

13:40 - 13:55 InS1.3

Interactive Teaching Support Systems in Smart Classrooms: Research and Practice, pp. 9-11.

ZHONG Xiao-Liu Tsinghua Univ.

LI Hai-Xia Tsinghua Univ.

XU Jun-Hua Tsinghua Univ.

SONG Shu-Qiang Tsinghua Univ.

13:55 - 14:10 InS1.4

Synchronized UML Diagrams for Object-Oriented Program Comprehension, pp. 12-17.

Jeong Yang Texas A&M Univ.-San Antonio

Young Lee Texas A&M Univ.-Kingsville

Deep Gandhi Texas A&M Univ.-Kingsville

Sruthi Ganesan Valli Texas A&M Univ.-Kingsville

14:10 - 14:25 InS1.5

A Unified Approach to Automate the Usage of Plagiarism Detection Tools in Programming Courses, pp. 18-23.

A. Omar Portillo-Dominguez Univ.College Dublin

Vanessa Ayala-Rivera Univ.College Dublin

Evin Murphy Univ.College Dublin

John Murphy Univ.College Dublin

14:25 - 14:40 InS1.6

Putting Computer Engineering and Computer Science Programs Together - The Case of AlBaha University, pp.

24-29.

Nadeem Hassan AlBaha Univ.

InS2 Oral Session Invited Session II

Chair: Prof. LI Fengxia Beijing Inst. of Tech., China

Co-Chair: Dr. Yue Yu Beijing Inst. of Tech., China

13:10 - 13:25 InS2.1

Digital Logic Experiment Teaching Based on Experimental Platform, pp. 33-37.

Li Shanshan Tsinghua Univ.

Yang Shiqiang Tsinghua Univ.

13:25 - 13:40 InS2.2

Smart Mobile APP of Museum -Investigations and Design for Local Culture Protection, pp. 38-41.

Binyue CUI Hebei Univ. of Economics & Business

Wei ZHOU Beijing Jiaotong Univ.

Guangquan FAN Hebei Univ. of Economics & Business

Yanbin WU Hebei Univ. of Economics & Business

13:40 - 13:55 InS2.3

Online Learning Support based on Learning Process in Blended Learning, pp. 42-46.

Wangjia Zhang Ocean Univ. of China

13:55 - 14:10 InS2.4

The Application of 3D Printing in Mathematics Education, pp. 47-50.

Yuyang Sun Capital Normal Univ.

Qingzhong Li Capital Normal Univ.

14:10 - 14:25 InS2.5

A HCI Design for Developing Touch-Operation-Based DGS: What You Think is What You Get, pp. 51-56.

Xiaowei Zhong Guangzhou Univ.

Yongsheng Rao Guangzhou Univ.

Guizhou Provincial Academician

Workstation of Educational Big Data

Tech. & Educational Mathematics

Juan Tang Guangzhou Univ.

Yong Huang	Guangzhou Univ.	Hiroki Takada	Univ. of Fukui
14:25 - 14:40	InS2.6	16:00 - 16:15	InS3.5
<i>Research and Development of Intelligent Online Examination Monitoring System</i> , pp. 57-62.		<i>Long Short-Term Memory Model for Predicting Productivity of Drilling Space Units</i> , pp. 83-88.	
SHI Jun	Huaihai Inst. of Tech.	Jian Zheng	Hitachi Ltd.
LI Hui	Huaihai Inst. of Tech.	Bin Tong	Hitachi Ltd.
GU Hang	Huaihai Inst. of Tech.	Yoshiyasu Takahashi	Hitachi Ltd.
ZHOU Li-dong	Huaihai Inst. of Tech.	Iwao Tanuma	Hitachi America, Ltd.
		Anshuman Sahu	Hitachi America, Ltd.
		Ravigopal Vennelakanti	Hitachi America, Ltd.
InS3	Oral Session		
Invited Session III			
Chair: Prof. Hiroki TAKADA	Univ. of Fukui, Japan	16:15 - 16:30	InS3.6
		<i>Comparison of Multiple Recommendation Methods of Similar Onomatopoeia</i> , pp. 89-92.	
15:00 - 15:15	InS3.1	Dongli Han	Nihon Univ.
<i>Changes in Brain Blood Flow during Stereoscopic Video Clips</i> , pp. 65-68.		Ryo Fukuoka	Nihon Univ.
Masumi Takada	Chubu Gakuin Univ.	Genki Wakabayashi	Nihon Univ.
Fumiya Kinoshita	Toyama Prefectural Univ.	Taro Shimizu	Nihon Univ.
Kazuhiro Fujikake	Nagoya Univ.	Shinnosuke Masuda	Nihon Univ.
Masaru Miyao	Kagawa Nutrition Univ.		
Akihiro Sugiura	Gifu Univ. of Medical Sci.		
Hiroki Takada	Univ. of Fukui		
		BPA1	Oral Session
		Best Paper Award Session I	
		Chair: Dr. Weng Yang	Sichuan Univ., China
15:15 - 15:30	InS3.2	15:00 - 15:15	BPA1.1
<i>Forms Seen in Daily Life are Useful for Mathematical Education -An Introduction of Japan Mathematics Contest</i> , pp. 69-72.		<i>Code-labeling: A Teaching Activity Encouraging Deep Learning in a non-STEM Introductory Programming Course</i> , pp. 95-100.	
Hiroki Takada	Univ. of Fukui	Thomas Hvid Spangsberg	Aarhus Univ.
		Martin Brynskov	Aarhus Univ.
15:30 - 15:45	InS3.3	15:15 - 15:30	BPA1.2
<i>Numerical Simulation of Equilibrium Systems While Viewing Stereoscopic Video Clips</i> , pp. 73-76.		<i>A Comparison of Inertial-Based Navigation Algorithms for a Low-Cost Indoor Mobile Robot</i> , pp. 101-106.	
Fumiya Kinoshita	Toyama Prefectural Univ.	Tobias Fauser	Embry-Riddle Aeronautical Univ.
Hiroki Takada	Univ. of Fukui	Stephen Bruder	Embry-Riddle Aeronautical Univ.
		Aly El-Osery	New Mexico Tech
15:45 - 16:00	InS3.4	15:30 - 15:45	BPA1.3
<i>Experimental Study on Control of Visually Evoked Postural Responses by Galvanic Vestibular Stimulation</i> , pp. 77-82.		<i>Age-Dependence of Work Efficiency Enhancement in Information Seeking by Using See-Through Smart Glasses</i> , pp. 107-109.	
Akihiro Sugiura	Gifu Univ. of Medical Sci.	Hiromu Ishio	Fukuyama City Univ.
Kazuya Akachi	Gifu Univ. of Medical Sci.	Ryota Kimura	Nagoya Univ.
Akira Yoshida	Gifu Univ. of Medical Sci.	Masaru Miyao	Nagoya Univ.
Chiharu Ito	Gifu Univ. of Medical Sci.		
Shuya Kondo	Gifu Univ. of Medical Sci.		
Kunihiko Tanaka	Gifu Univ. of Medical Sci.		

15:45 - 16:00 BPA1.4

New 2D Pupil and Spot Center Positioning Technology Under Real - Time Eye Tracking, pp. 110-115.

Jiancheng Zou North China Univ. of Tech.
Honggen Zhang North China Univ. of Tech.
Tengfan Weng North China Univ. of Tech.

16:00 - 16:15 BPA1.5

Software Verification of Orion Cockpit Displays, pp. 116-120.

M. A. Rafe Biswas Univ. of Texas at Tyler
Samuel Garcia Univ. of Texas at Tyler
Matthew Prado Univ. of Texas at Tyler
Sadad Hossain NASA Johnson Space Center
Matthew Souris NASA Johnson Space Center
Lee Morin NASA Johnson Space Center

16:15 - 16:30 BPA1.6

Mobile Brand Analysis Based on WiFi Hotspots on Campus, pp. 121-126.

Xuan Zhang Beijing Univ. of Posts & Telecommunications
Yaqiong Liu Beijing Univ. of Posts & Telecommunications
Zhigang Guo Beijing Univ. of Posts & Telecommunications
Yihong Hu Beijing Univ. of Posts & Telecommunications
Guochu Shou Beijing Univ. of Posts & Telecommunications

BPA2 Oral Session
Best Paper Award Session II

Chair: Dr. Cui Binyue Hebei Univ. of Economics & Business, China

15:00 - 15:15 BPA2.1

Blended Learning Supported by the Knowledge Indexed Video Case Base in the Course about History of Science and Technology, pp. 129-132.

Jing DU Tsinghua Univ.
Jian YANG Tsinghua Univ.

15:15 - 15:30 BPA2.2

Towards a Smart Campus: Innovative Applications with WiCloud Platform Based on Mobile Edge Computing, pp. 133-138.

Yaqiong Liu Beijing Univ. of Posts & Telecommunications
Guochu Shou Beijing Univ. of Posts & Telecommunications
Yihong Hu Beijing Univ. of Posts & Telecommunications

Zhigang Guo Beijing Univ. of Posts & Telecommunications
Hongxing Li Beijing Univ. of Posts & Telecommunications
Feng Peng Beijing Univ. of Posts & Telecommunications
Hock Soon Seah Nanyang Technological Univ.

15:30 - 15:45 BPA2.3

Implementation of Intelligent Recommendation System for Learning Resources, pp. 139-144.

LI Hui Huaihai Inst. of Tech.
SHI Jun Huaihai Inst. of Tech.
Shu Zhang Huaihai Inst. of Tech.
Hu Yun Nanjing Univ. of Chinese Medicine

15:45 - 16:00 BPA2.4

Virtual Experiment Method for MOOCs to Solve Abstract Key Notes and Difficult Points, pp. 145-148.

Yue Yu Beijing Inst. of Tech.
Fengxia Li Beijing Inst. of Tech.
Sanyuan Zhao Beijing Inst. of Tech.
Hua Liu Beijing Inst. of Tech.

16:00 - 16:15 BPA2.5

The Intelligent Video Management System: A Use Case of Software Defined Class, pp. 149-154.

Suyou Li Beijing Univ. of Posts & Telecommunications
Zhigang Guo Beijing Univ. of Posts & Telecommunications
Yaqiong Liu Beijing Univ. of Posts & Telecommunications
Guochu Shou Beijing Univ. of Posts & Telecommunications
Yihong Hu Beijing Univ. of Posts & Telecommunications

16:15 - 16:30 BPA2.6

The Design and Implementation of User-Trust Based Social Review Method and System in Online Learning, pp. 155-160.

Qi Wang Beijing Normal Univ.
Haipeng Wan Beijing Normal Univ.
Shengquan Yu Beijing Normal Univ.

ThA1 Oral Session
Artificial Intelligence

Chair: Dr. M. A. Rafe Biswas The Univ. of Texas at Tyler, USA
Co-Chair: Silvino José P. S. Bastos Univ. of Texas at El Paso, Brazil

10:20 - 10:35 ThA1.1

Musical Instrument Classification Utilizing a Neural

Network, pp. 163-166.

Therrick-Ari Anderson Lincoln Univ.

10:35 - 10:50 ThA1.2

An analysis of Influence Factors for Academic Performance about Personality Traits and Thinking Styles of Students -Use a C Programming Language Course in College as an Example, pp. 167-171.

Jiazhi Du Ocean Univ. of China
Rui Shi East China Normal Univ.
Yuanyi Zhen Ocean Univ. of China
Weigang Lu Ocean Univ. of China

10:50 - 11:05 ThA1.3

Research on Activity Recognition of Students in Physical Education Based on IDT method, pp. 172-176.

Jiazhi Du Ocean Univ. of China
Shijun Dong Ocean Univ. of China
Chunrong Li Ocean Univ. of China
Weigang Lu Ocean Univ. of China

11:05 - 11:20 ThA1.4

Model Prediction of Dynamic Performance Response of DMFC using Artificial Neural Networks, pp. 177-182.

Mohammad Abu Rafe
Biswas Univ. of Texas at Tyler
Melvin D. Robinson Univ. of Texas at Tyler

11:20 - 11:35 ThA1.5

Real-Time Detection Algorithm of Abnormal Behavior in Crowds Based on Gaussian Mixture Model, pp. 183-187.

Zhaohui Luo Xiamen Univ.
Weisheng He Xiamen Univ.
Minghui Liwang Xiamen Univ.
Lianfen Huang Xiamen Univ.
Yifeng Zhao Xiamen Univ.
Jun Geng Beijing Univ. of Posts & Telecommunications

11:35 - 11:50 ThA1.6

Design and Implementation of a Modular Communication System for the Synthesis of Atomically Thin Nanomaterials, pp. 188-193.

Silvino P. Bastos Univ. of Texas at El Paso
Gustavo A. Sáenz Univ. of Texas at El Paso
Anupama B. Kaul Univ. of Texas at El Paso

ThA2 Oral Session

Information & Technology

Chair: Prof. Lee Li National Sun Yat-Sen Univ., Taiwan
Co-Chair: Shujiao Wang Beijing Univ. of Posts & Telecommunications, China

10:20 - 10:35 ThA2.1

A Novel Interval Partitioning Approach to Finite Time Stability of LTI Systems, pp. 197-201.

Li Lee National Sun Yat-Sen Univ.

10:35 - 10:50 ThA2.2

Adaptive Backstepping Sliding Mode Tracking Control for the Stratospheric Airship, pp. 202-207.

Bingwu Chen Xiamen Univ.

10:50 - 11:05 ThA2.3

Student Clustering and Learning Atmosphere Analysis Based on Trajectory Data, pp. 208-213.

Shujiao Wang Beijing Univ. of Posts & Telecommunications
Yihong Hu Beijing Univ. of Posts & Telecommunications
Yaqiong Liu Beijing Univ. of Posts & Telecommunications
Zhigang Guo Beijing Univ. of Posts & Telecommunications
Guochu Shou Beijing Univ. of Posts & Telecommunications

11:05 - 11:20 ThA2.4

A Random-Access Algorithm Based on Statistics Waiting In LTE-M System, pp. 214-218.

Yifeng Zhao Xiamen Univ.
Huayu Yang Xiamen Univ.
Kai Liu Xiamen Univ.
Lianfen Huang Xiamen Univ.
Mingjun Shi Beijing Univ. of Posts & Telecommunications
Meng Zhang Beijing Univ. of Posts & Telecommunications

11:20 - 11:35 ThA2.5

Exploration and Practice of Inter-bank Application Based on Blockchain, pp. 219-224.

Tong Wu CFETS Info. Tech. (Shanghai) Co.,Ltd
Xiubo Liang Zhejiang Univ.

ThA3 Oral Session

Engineering

Chair: Naser Al Madi Kent State Univ., USA

10:20 - 10:35	ThA3.1	Shuoming Zhang	Beijing Univ. of Posts & Telecommunications
<i>A Novel Method of Extracting and Classifying the Features of Masses in Mammograms</i> , pp. 227-231.		Ruonan Li	Beijing Univ. of Posts & Telecommunications
Han Zhen-zhong	National Univ. of Defense Tech.	Da Guo	Beijing Univ. of Posts & Telecommunications
liu Pei-guo	National Univ. of Defense Tech.	Yifei Wei	Beijing Univ. of Posts & Telecommunications
Mao Jian	National Univ. of Defense Tech.	Yan Sun	Beijing Univ. of Posts & Telecommunications
	Jimei Univ.		Baidu China Co., Ltd.
10:35 - 10:50	ThA3.2	14:00 - 14:15	ThB1.3
<i>i-Memory: An Intelligence Android-based Photo Management System</i> , pp. 232-235.		<i>A VR Scene Modelling Platform for PTSD Treatment</i> , pp. 257-262.	
Ping Zhong	Central South Univ.	Nikilesh Urella	Louisiana State Univ.
Hugang Gu	Central South Univ.	Jennifer Hughes	Louisiana State Univ.
Pengfeng Li	Central South Univ.	Erich Conrad	Louisiana State Univ.
Min Xiao	Xiamen Univ. of Tech.	Junsong Zhang	Xiamen Univ.
Xiaofeng Du	Xiamen Univ. of Tech.	Xin Li	Louisiana State Univ.
10:50 - 11:05	ThA3.3	14:15 - 14:30	ThB1.4
<i>A Comprehension-based Framework for Measuring Semantic Similarity</i> , pp. 236-240.		<i>2D Quad Mesh Generation using Divide and Conquer Poly-square Maps</i> , pp. 263-268.	
Naser S Al Madi	Kent State Univ.	Celong Liu	Louisiana State Univ.
Javed I Khan	Kent State Univ.	Zhonggui Chen	Xiamen Univ.
		Xin Li	Louisiana State Univ.
11:05 - 11:20	ThA3.4	14:30 - 14:45	ThB1.5
<i>Wireless HD Video Laryngoscope System based on Cloud Platform</i> , pp. 241-244.		<i>An Automatic Testing Framework for Embedded Software</i> , pp. 269-274.	
Lianfen Huang	Xiamen Univ.	Yang Shuaishuai	Beihang Univ.
Jianghe Yang	Xiamen Univ.	Yu Zhengwei	Beihang Univ.
Chao Feng	Xiamen Univ.	Liu Bin	Beihang Univ.
		Lu Yunfeng	Beihang Univ.
		Gao Zhijie	96658 Units
ThB1	Oral Session	ThB2	Oral Session
Computer Application I		Computer Application II	
Chair: Nikilesh Urella	Louisiana State Univ., USA	Chair: Assistant Prof. Zhao	
Co-Chair: Celong Liu	Louisiana State Univ., USA	Caidan	Xiamen Univ., China
13:30 - 13:45	ThB1.1	13:30 - 13:45	ThB2.1
<i>Research on Information Equipment Industry Data Analysis Modelling Establish</i> , pp. 247-251.		<i>A Contextual Awareness-learning Approach to Multi-objective Mobility Management</i> , pp. 277-282.	
Jiemin Zhang	Jimei Univ.	Shuang Zhao	Tianjin Univ.
Fangda Lu	Texas State Univ.	Qing Wang	Tianjin Univ.
Jian Mao	Jimei Univ.		
13:45 - 14:00	ThB1.2	13:45 - 14:00	ThB2.2
<i>WiFi Fingerprint Positioning Based on Clustering in Mobile Crowdsourcing System</i> , pp. 252-256.		<i>Reducing Complexity in 3D Colored Meshes with</i>	
Yong Zhang	Beijing Univ. of Posts & Telecommunications		

Multi-scale Color Saliency, pp. 283-288.

Yue Yu Beijing Inst. of Tech.
Xiangru Chen Beijing Inst. of Tech.
Jiancheng Qiao Beijing Inst. of Tech.
Fengxia Li Beijing Inst. of Tech.

14:00 - 14:15 ThB2.3

Detection of Unmanned Aerial Vehicle Signal Based on Gaussian Mixture Model, pp. 289-293.

Caidan Zhao Xiamen Univ.
Mingxian Shi Xiamen Univ.
Zhibiao Cai Xiamen Univ.
Caiyun Chen Xiamen Univ.

14:15 - 14:30 ThB2.4

The Reconstitution of LCD Compromising Emanations based on Wavelet Denoising, pp. 294-297.

Liu Jinming National Univ. of Defense Tech.
Jimei Univ.
Liu Taikang Electronics Tech. Group Corporation
Zhang Jiemin Jimei Univ.
Li Yongmei Jimei Univ.

14:30 - 14:45 ThB2.5

Wireless Charging Monitoring System Based on Bluetooth, pp. 298-302.

Benbin Chen Xiamen Univ. of Tech.
Lingli Xie Xiamen Univ. of Tech.
Hong Tian Xiamen Univ. of Tech.
Li'an Chen Xiamen Univ. of Tech.

ThB3 Oral Session
Education Reform and Innovation

Chair: Mr. Roosevelt Stallings III Lincoln Univ., USA
Co-Chair: Jia Yue Dalian Neusoft Univ. of Info., China

13:30 - 13:45 ThB3.1

NetPad: An Online DGS for Mathematics Education, pp. 305-309.

Ying Wang South China Inst. of Software Engineering
Guangzhou Univ.
Yongsheng Rao Guangzhou Univ.
Guizhou Provincial Academician
Workstation of Educational Big Data
Tech. & Educational Mathematics
Yu Zou Guangzhou Univ.

Hao Guan The Chinese Academy of Sci.s

13:45 - 14:00 ThB3.2

Teaching Reform on Database Course for Science Laboratory Class, pp. 310-313.

Na Wang Shanghai Polytechnic Univ.
Chuang Ma Shanghai Polytechnic Univ.

14:00 - 14:15 ThB3.3

Harmonographs - Using the Build-Design Process to Improve Functionality, pp. 314-318.

Roosevelt Stallings III Lincoln Univ.

14:15 - 14:30 ThB3.4

Exploration and Consideration of Practice Teaching on IoT Comprehensive Practice Base, pp. 319-323.

Liu Zhaobin Suzhou Vocational Univ.
Jiangsu Province Support Software
Engineering R&D Center for Modern
Info. Tech. Application in Enterprise

Liu Wenzhi Suzhou Vocational Univ.
Jiangsu Province Support Software
Engineering R&D Center for Modern
Info. Tech. Application in Enterprise

14:30 - 14:45 ThB3.5

Application of MOOC in CDIO Integrated Teaching Pattern – A Case Study of Software Engineering Major, pp. 324-327.

Jia Yue Dalian Neusoft Univ. of Info.
Han Rui Dalian Rockwell Automation Co., Ltd

ThP1 Poster Session
Annual Selected Topics

9:00 - 17:00 ThP1.1

Effective Dynamic Algorithms for Massive Mark Point Aggregation Display, pp. 331-336.

Kunhui Lin Xiamen Univ.
Yangbin Pan Xiamen Univ.
Xiaoli Wang Xiamen Univ.
Mengsang Wu Xiamen Univ.
Shiyu Su Xiamen Univ.

9:00 - 17:00 ThP1.2

Design of Higher Education Quality Monitoring and

<i>Evaluation Platform Based on Big Data</i> , pp. 337-342.		Ting Lei	Northwestern Polytechnical Univ.
	Nanjing Univ. of Posts & Telecommunications	Naiding Yang	Northwestern Polytechnical Univ.
Yuqian Li			
	Nanjing Univ. of Posts & Telecommunications	9:00 - 17:00	ThP1.8
Feng Zhu		<i>An Optimization Algorithm for Spatial Information Network Self-healing Based on Software Defined Network</i> , pp. 369-374.	
	Nanjing Univ. of Posts & Telecommunications	Zudong Fan	Xiamen Univ.
Peng Li		Haijie Wu	Xiamen Univ.
	Nanjing Univ. of Posts & Telecommunications	Jia Xu	Xiamen Univ.
Ruchuan Wang		Yuliang Tang	Xiamen Univ.
9:00 - 17:00	ThP1.3		
<i>A Novel Long-Term Air Quality Forecasting Algorithm Based on kNN and NARX</i> , pp. 343-348.			
		9:00 - 17:00	ThP1.9
Kunhui Lin	Xiamen Univ.	<i>Urban Night Bus Routes Planning With Taxi GPS Traces</i> , pp. 375-379.	
Liting Jing	Xiamen Univ.	YANG Ling	Harbin Univ.
Meihong Wang	Xiamen Univ.		Harbin Inst. of Tech.
Ming Qiu	Xiamen Univ.	JIANG Shou-xu	Harbin Inst. of Tech.
Ze'an Ji	Xiamen Univ.	JIA Zong-fu	Harbin Univ.
9:00 - 17:00	ThP1.4	REN Xiang-min	Harbin Univ.
<i>Modality-convolutions: Multi-modal Gesture Recognition Based on Convolutional Neural Network</i> , pp. 349-353.			
		ZHANG Fu-sheng	Harbin Univ.
Da Huo	Beijing Inst. of Tech.	9:00 - 17:00	ThP1.10
Yufeng Chen	Beijing Inst. of Tech.	<i>Press Plus-Interactive Mobile Application for Effective News Reading</i> , pp. 380-385.	
Fengxia Li	Beijing Inst. of Tech.	N.D.U. Gamage	Sri Lanka Inst. of Info. Tech.
Zhengchao Lei	Beijing Inst. of Tech.	K.W.C. Jayadewa	Sri Lanka Inst. of Info. Tech.
9:00 - 17:00	ThP1.5	K.L.A.D. Udeshitha	Sri Lanka Inst. of Info. Tech.
<i>An Effective Recognition Method for Medical Sheet Based on Deep Learning Approach</i> , pp. 354-357.			
		S.M.N.K.B. Senanayake	Sri Lanka Inst. of Info. Tech.
Pengsong Duan	Zhengzhou Univ.	S.M.U.P. Samarakoon	Sri Lanka Inst. of Info. Tech.
Zhen Li	Zhengzhou Univ.	T.M. Hennayake	Sri Lanka Inst. of Info. Tech.
Yamin Wang	Zhengzhou Univ.	9:00 - 17:00	ThP1.11
Bo Zhang	Zhengzhou Univ.	<i>Safety Management System for College Students' Outdoor Activities Based on Mobile Terminal</i> , pp. 386-391.	
Yangjie Cao	Zhengzhou Univ.	ZHANG Yi	Zhejiang Univ. of Sci. & Tech.
9:00 - 17:00	ThP1.6	CEN Gang	Zhejiang Univ. of Sci. & Tech.
<i>Wine Quality Identification Based on Data Mining Research</i> , pp. 358-361.			
		SHEN Liqiang	Zhejiang Univ. of Sci. & Tech.
Zhang Lingfeng	Ningxia Univ.	HUA Yifeng	Zhejiang Univ. of Sci. & Tech.
Feng Feng	Ningxia Univ.	LUO Junyan	Zhejiang Univ. of Sci. & Tech.
Huang Heng	Ningxia Univ.	CHEN Xuan	Zhejiang Univ. of Sci. & Tech.
9:00 - 17:00	ThP1.7	9:00 - 17:00	ThP1.12
<i>Research on Relation between Average Degree and Convergence Performance of Distributed Synchronization Algorithm in WSNs</i> , pp. 392-396.			
<i>Under Different Cultural Background: Emotion and Framework Effect to National Communication</i> , pp. 362-368.			

Xuan Zhang Xiamen Univ.
 Xiao Lin Xiamen Univ.
 Zhe Zheng Xiamen Univ.
 Qi Yang Xiamen Univ.

Linkai Luo Xiamen Univ.
 Xiamen Key Laboratory of Big Data
 Intelligent Analysis & Decision-making
 Hong Peng Xiamen Univ.
 Xiamen Key Laboratory of Big Data
 Intelligent Analysis & Decision-making

9:00 - 17:00 ThP1.13

Student Affairs Management System Design Based on Mobile Application Eaidr, pp. 397-400.

Chen Bo Zhejiang Univ. of Sci. & Tech.
 CEN Gang Zhejiang Univ. of Sci. & Tech.
 Feng Tianxiang Zhejiang Univ. of Sci. & Tech.
 Shen Feixin Zhejiang Univ. of Sci. & Tech.

9:00 - 17:00 ThP2.4

Refined Composite Multivariate Multiscale Fuzzy Entropy Analysis of Horizontal Oil-water Two-phase Flow, pp.

423-428.

Yi Wang Northwestern Polytechnical Univ.
 Yang Yang AVIC Xi'an Flight Automatic Control Research Inst.

9:00 - 17:00 ThP1.14

A Resource Collaboration Scheduling Scheme in Ultra-dense Small Cells, pp. 401-405.

Zengxian Chen Xiamen Univ.
 Yuliang Tang Xiamen Univ.

9:00 - 17:00 ThP2.5

A HMM-based Content Forwarding Strategy in LEO Satellite System, pp. 429-434.

Weidong Liao Beijing Univ. of Posts & Telecommunications
 Yong Zhang Beijing Univ. of Posts & Telecommunications
 Tengpeng Ma Beijing Univ. of Posts & Telecommunications
 Da Guo Beijing Univ. of Posts & Telecommunications
 Mei Song Beijing Univ. of Posts & Telecommunications
 Haihao Li Beijing Inst. of Remote Sensing Equipment

ThP2	Poster Session
Computer Science I	

9:00 - 17:00 ThP2.1

Generation of Adaptive Learning Path based on Concept Map and Immune Algorithm, pp. 409-414.

Cunling Bian Ocean Univ. of China
 Shijun Dong Ocean Univ. of China
 Chunrong Li Ocean Univ. of China
 Zheng Shi Ocean Univ. of China
 Weigang Lu Ocean Univ. of China

9:00 - 17:00 ThP2.6

An Improved Binary Search RFID Anti-collision Algorithm, pp. 435-439.

Youjing Bai Xiamen Univ.
 Lvqing Yang Xiamen Univ.
 Guoxing Zhang Xiamen Univ.
 Yezi Xu Xiamen Univ.

9:00 - 17:00 ThP2.2

Low-rank Representation for Single Image Super-resolution using Metric Learning, pp. 415-418.

Shaohui Li Xiamen Univ.
 Linkai Luo Xiamen Univ.
 Xiamen Key Laboratory of Big Data
 Intelligent Analysis & Decision-marking
 Hong Peng Xiamen Univ.
 Xiamen Key Laboratory of Big Data
 Intelligent Analysis & Decision-marking

9:00 - 17:00 ThP2.7

Saliency Detection for RGBD Image Using Optimization, pp. 440-443.

Zhengchao Lei Beijing Inst.of Tech.
 Weiyan Chai Beijing Inst.of Tech.
 Sanyuan Zhao Beijing Inst.of Tech.
 Hongmei Song Beijing Inst.of Tech.
 Fengxia Li Beijing Inst.of Tech.

9:00 - 17:00 ThP2.3

A Recommendation Approach based on the Theory of Reasoned Action, pp. 419-422.

Xiaoqin Huang Xiamen Univ.

9:00 - 17:00 ThP2.8

Smart Home System Design Based on Internet of Things, pp. 444-448.

Rui Liu Ningxia Univ.

Yongqi Ge	Ningxia Univ.	Lu Geng	Shanghai Univ. of Engineering Sci.
9:00 - 17:00	ThP2.9	9:00 - 17:00	ThP3.2
<i>Interactive Smart Home Design Based on Internet of Things</i> , pp. 449-453.		<i>A Research on Simultaneous Fault Diagnosis Based on Paired-RVM</i> , pp. 483-488.	
Yujun Han	Jiangsu Vocational Inst. of Commerce	Wei Jiang	City College of Wuhan Univ. of Sci. & Tech.
Baobin Liu	Jiangsu Vocational Inst. of Commerce	Liping Yang	Huazhong Agricultural Univ.
9:00 - 17:00	ThP2.10	9:00 - 17:00	ThP3.3
<i>Research on Text Mining Algorithm Based on Focused Crawler</i> , pp. 454-457.		<i>Peer to Peer Traffic Identification Using Support Vector Machine and Bat-Inspired Optimization Algorithm</i> , pp. 489-495.	
Qiusheng Zhang	Hubei Business College	Liu Chuan	Hubei Univ. of Tech.
Mingyu Lin	Hubei Business College	Chunzhi Wang	Hubei Univ. of Tech.
Jianping Jun	Hubei Business College	Hu Jixiong	Hubei Univ. of Tech.
Xingyun Zhang	Hubei Business College	Zhiwei Ye	Hubei Univ. of Tech.
9:00 - 17:00	ThP2.11	9:00 - 17:00	ThP3.4
<i>Research on Evaluation of Early Childhood Education Software</i> , pp. 458-463.		<i>Research and Implementation of Laser Shooting System Based on Linux</i> , pp. 496-501.	
Zhang Liqin	Jiangxi Sci. & Tech. Normal Univ.	Dengyou Wang	Xiamen Univ.
Huang Xiao	Jiangxi Sci. & Tech. Normal Univ.	Shunxiang Wu	Xiamen Univ.
9:00 - 17:00	ThP2.12	9:00 - 17:00	ThP3.5
<i>Improved K-Means Algorithm Based on Hybrid Fruit Fly Optimization and Differential Evolution</i> , pp. 464-467.		<i>A Forensics Method for Android Devices Based on the Technique of Temporary Root</i> , pp. 502-505.	
Jixiong Hu	Hubei Univ. of Tech.	Weiming Guo	Xiamen Univ.
Chunzhi Wang	Hubei Univ. of Tech.	Shunxiang Wu	Xiamen Univ.
Chuan Liu	Hubei Univ. of Tech.	Dengyou Wang	Xiamen Univ.
Zhiwei Ye	Hubei Univ. of Tech.		
9:00 - 17:00	ThP2.13	9:00 - 17:00	ThP3.6
<i>Automatic Diagnosing of Infant Hip Based on Graf Criteria</i> , pp. 468-473.		<i>Link Prediction Algorithm Based on Local Centrality of Common Neighbor Nodes Using Multi-Attribute Ranking</i> , pp. 506-511.	
Xiang Yu	Xiamen Univ.	Mingqiang Zhou	Chongqing Univ.
Dongyun Lin	Xiamen Univ.	Rongchen Liu	Chongqing Univ.
Weiyao Lan	Xiamen Univ.	Xin Zhao	Chongqing Univ.
Bingan Zhong	Xiamen Haicang Hospital	Qingsheng Zhu	Chongqing Univ.
Ping Lv	Xiamen Maternal & Children Health Care Hospital		
ThP3	Poster Session		
Computer Science II			
9:00 - 17:00	ThP3.1	9:00 - 17:00	ThP3.7
<i>Research on the Design of Teaching Service APP Based on User Experience – Taking "i Sino-Korea" as an Example</i> , pp. 477-482.		<i>Research on the Error of the Fourier Algorithm with DC Filtering in Fault Current Calculation of Power System</i> , pp. 512-515.	
		Zhou Shijie	Guangzhou Power Supply Co. Ltd
		Li Hongguang	Guangzhou Power Supply Co. Ltd

Jichao Hu	Hebei GEO Univ.	Fen Wang	Huazhong Univ. of Sci. & Tech.
Lixiao Ma	Hebei GEO Univ.		
Jiwei Xu	Hebei GEO Univ.	9:00 - 17:00	ThP5.10
		<i>A Visualization Knowledge Peer Network (VKPN) Approach to Scaffold Social Learning</i> , pp. 655-658.	
9:00 - 17:00	ThP5.4	Jinju Duan	South West Univ.
<i>Study on Influence and Revelation of Flipped Classroom on University Education</i> , pp. 626-628.			
Yang Lin	Sanya Univ.	9:00 - 17:00	ThP5.11
Li Huiyan	Sanya Univ.	<i>Automatic Testing Scheme of Hardware Description Language Programs for Practice Teaching</i> , pp. 659-662.	
9:00 - 17:00	ThP5.5	Lisheng Wang	Tongji Univ.
<i>Comparative Study of Innovation and Entrepreneurship Education</i> , pp. 629-633.		Hang Zhou	Tongji Univ.
Chengjiang Lu	Guangdong Inst. of Sci. & Tech.	Dongdong Zhang	Tongji Univ.
Hongming Zhu	Harbin Univ. of Sci. & Tech.	9:00 - 17:00	ThP5.12
		<i>MIPS CPU Test System for Practice Teaching</i> , pp. 663-666.	
9:00 - 17:00	ThP5.6	Lisheng Wang	Tongji Univ.
<i>Research on Design and Development of High-quality Micro-lecture Resources</i> , pp. 634-638.		Jianhong Ruan	Tongji Univ.
Dan Dan Wei	Jiangxi Sci. & Tech. Normal Univ.	Dongdong Zhang	Tongji Univ.
Le Xing Qiu	Nan Chang Army College		
Hua Hua Yu	Jiangxi Sci. & Tech. Normal Univ.	9:00 - 17:00	ThP5.13
		<i>The Exploration of Interactive Software Engineering Training Model</i> , pp. 667-672.	
9:00 - 17:00	ThP5.7	Xiubo Liang	Zhejiang Univ.
<i>Research on the Improvement of Python Language Programming Course Teaching Methods based on Visualization</i> , pp. 639-644.		Yanlei Chen	Zhejiang Univ.
Xiaoyan Kui	Central South Univ.	Qichun Huang	Zhejiang Univ.
Weiguo Liu	Central South Univ.	9:00 - 17:00	ThP5.14
Jiazhi Xia	Central South Univ.	<i>Design and Implementation of Software Outsourcing Talent Training Public Service Platform</i> , pp. 673-675.	
Huakun Du	Central South Univ.	Jiang Li	Hangzhou Normal Univ.
		Zhan Guohua	Hangzhou Normal Univ.
9:00 - 17:00	ThP5.8	Niu Chengming	
<i>Statistical Graph Classification in Intelligent Mathematics Problem Solving System for High School Student</i> , pp. 645-650.		Yu Ge	
Yafei Shi	Central China Normal Univ.	Xu Yonggang	
Yantao Wei	Central China Normal Univ.	Li Zhihua	
Ting Wu	Central China Normal Univ.		
Qingtang Liu	Central China Normal Univ.		
9:00 - 17:00	ThP5.9	9:00 - 17:00	ThP6.1
<i>The Construction of Undergraduate Data Mining Course in the Big Data Age</i> , pp. 651-654.		<i>Research on the Influence Factor of Kindergarten Teachers' Information Technology Use Behavior</i> , pp. 679-683.	
Xiaofang Zhang	Huazhong Univ. of Sci. & Tech.	Zhang Liqin	Jiangxi Sci. & Tech. Normal Univ.
Xiaotao Huang	Huazhong Univ. of Sci. & Tech.		

ThP6	Poster Session
Engineering Education III	

Wan Chunhui	Jiangxi Water Resources Inst.	9:00 - 17:00	ThP6.8
<i>Teaching Reform and Practice of the Basic Computer Course based on Flipped Classroom</i> , pp. 713-716.			
9:00 - 17:00	ThP6.2	LiXiao Ma	Hebei GEO Univ.
<i>Exploration and Research on the Construction of MOOC + SPOC Platform based on Internet Data Center</i> , pp. 684-689.			
Bo Chen	Hubei Univ. of Sci. & Tech.	JiChao Hu	Hebei GEO Univ.
Chun-hui Wu	Hubei Univ. of Sci. & Tech.	YiYing Chen	Hebei GEO Univ.
Hong-sheng Chen	Hubei Univ. of Sci. & Tech.	XueJing Liu	Hebei GEO Univ.
		WenBin Li	Hebei GEO Univ.
9:00 - 17:00	ThP6.3	9:00 - 17:00	ThP6.9
<i>The Design and Implementation for Automatic Evaluation System of Virtual Experiment Report</i> , pp. 717-721.			
<i>A Lifelong Learning System Based on School-enterprise Cooperation</i> , pp. 690-693.			
Baobin Liu	Jiangsu Vocational Inst. of Commerce	Yufeng Chen	Beijing Inst. of Tech.
Wei Zhou	Jiangsu Vocational Inst. of Commerce	Xuemin Liu	Beijing Inst. of Tech.
9:00 - 17:00	ThP6.4	Panpan Huo	Beijing Inst. of Tech.
<i>Education Data Mining: How to Mine Interactive Text in MOOCs using Natural Language Process</i> , pp. 694-699.			
Feng Yu	Harbin Univ. of Commerce	Lin Li	Beijing Inst. of Tech.
Dequan Zheng	Harbin Univ. of Commerce	Fengxia Li	Beijing Inst. of Tech.
9:00 - 17:00	ThP6.5	9:00 - 17:00	ThP6.10
<i>Multi-Dimensional Computer Basic Education Practice and Research</i> , pp. 722-725.			
<i>Discovering Learning Behavior Patterns to Predict Dropout in MOOC</i> , pp. 700-704.			
Bowei Hong	Ocean Univ. of China	Yizhi Wang	Beijing Jiaotong Univ.
Zhiqiang Wei	Ocean Univ. of China	Wei Zhou	Beijing Jiaotong Univ.
Yongquan Yang	Ocean Univ. of China	Lingyun Lu	Beijing Jiaotong Univ.
9:00 - 17:00	ThP6.6	9:00 - 17:00	ThP6.11
<i>Teaching Practise of Blended Learnig on Computer General Courses for Undergraduates</i> , pp. 726-729.			
<i>Reform of Teaching Mode for Computer Specialty Based on MOOCs</i> , pp. 705-708.			
Xinlu Zong	Hubei Univ. of Tech.	Chunli Chen	China Univ. of Sci.s(Beijing)
Hui Xu	Hubei Univ. of Tech.	Xinqi Zheng	China Univ. of Sci.s(Beijing)
9:00 - 17:00	ThP6.7	9:00 - 17:00	ThP6.12
<i>Integrating MOOC and SPOC into the Physical Classroom for Fundamentals of Computer Course</i> , pp. 730-733.			
<i>The Design and Implementation of Generic Practice Evaluation Platform for iStudy</i> , pp. 709-712.			
Pan Tingting	Hangzhou Normal Univ.	Yanling Shao	Nanyang Inst. of Tech.
Zhan Guohua	Hangzhou Normal Univ.	Qingji Xue	Nanyang Inst. of Tech.
Zhang Liang		Xuejian Sun	Nanyang Inst. of Tech.
Yu Ge		Haiquan Yuan	Nanyang Inst. of Tech.
Xu Yonggang		9:00 - 17:00	ThP6.13
Li Zhihua		<i>Research on the Model of University Computer Innovation Teaching in MOOC + SPOC under Deep Cooperative</i> , pp. 734-739.	
Qi Bin		Zhang Chunying	North China Univ. of Tech.
		Liu Ying	North China Univ. of Tech.

9:00 - 17:00 ThP6.14
A Real-Time Virtual Piano Based on Gesture Capture Data, pp. 740-743.
 Wei Qiao Beijing Inst. of Tech.
 Rui Wei Beijing Inst. of Tech.
 Sanyuan Zhao Beijing Inst. of Tech.
 Da Huo Beijing Inst. of Tech.
 Fengxia Li Beijing Inst. of Tech.

9:00 - 17:00 ThP6.15
A Virtual Experiment Platform Based on OpenStack, pp. 744-749.
 Yu Sheng Central South Univ.
 Hulei Fan Central South Univ.
 Lei Xiao Central South Univ.
 Juan Huang Central South Univ.

ThP7 Poster Session
Interdisciplinary

9:00 - 17:00 ThP7.1
Electronic Medical Record System based on Augmented Reality, pp. 753-756.
 Minghui Weng Xiamen Univ.
 Lianfen Huang Xiamen Univ.
 Chao Feng Xiamen Univ.
 Fenglian Gao Xiamen Univ.
 Hezhi Lin Xiamen Univ.

9:00 - 17:00 ThP7.2
Fault Diagnosis of Wind Turbine Planetary Gear Box Based on EMD and Resonance Demodulation, pp. 757-762.
 Junshan Si Harbin Univ. of Sci. & Tech.
 Yi Cao Harbin Univ. of Sci. & Tech.
 Xianjiang Shi Harbin Univ. of Sci. & Tech.

9:00 - 17:00 ThP7.3
Simulation Study on Gear Fault Diagnosis Simulation Test-bed of Doubly Fed Wind Generator, pp. 763-768.
 Xianjiang Shi Harbin Univ. of Sci. & Tech.
 Qingkang Gao Harbin Univ. of Sci. & Tech.
 Wantao Li Harbin Univ. of Sci. & Tech.
 Hua Guo Harbin Univ. of Sci. & Tech.

9:00 - 17:00 ThP7.4

Energy Harvesting System and Circuits for Ambient WiFi Energy Harvesting, pp. 769-772.
 Xuelin Chen Xiamen Univ.
 Lianfen Huang Xiamen Univ.
 Jianli Xing Xiamen Univ.
 Zhiyuan Shi Xiamen Univ.
 Zuosheng Xie Xiamen Univ.

9:00 - 17:00 ThP7.5
Experimental Study on Heat Transfer and Resistance Performance of Corrugated Tube, pp. 773-776.
 Zhengchong Hu Hubei Business College
 Yiming Chen Hubei Business College
 Wei Pi Hubei Business College

9:00 - 17:00 ThP7.6
EMC Design of Intelligent Pole-mounted Switch Controller, pp. 777-781.
 Li Bingkun South China Univ. of Tech.

9:00 - 17:00 ThP7.7
Hardware Scheme of a Universal Intelligent Pole-Mounted Switchgear Controller, pp. 782-786.
 Lin Yapei Guangzhou Power Supply Co. Ltd
 Li Hongguang Guangzhou Power Supply Co. Ltd
 Guan Junle Guangzhou Power Supply Co. Ltd
 Wang Xuefeng Guangzhou Power Supply Co. Ltd
 Qin Huanxin Guangzhou Power Supply Co. Ltd
 Zhang Kai Xiamen Univ. of Tech.
 Chen Li'an Xiamen Univ. of Tech.
 Tian Hong Xiamen Univ. of Tech.
 Chen Benbin Xiamen Univ. of Tech.

9:00 - 17:00 ThP7.8
A Design of Multi-vision Localization and Navigation Service Robot System, pp. 787-790.
 Jia Guo Xiamen Univ.
 Xingyu Xiao Xiamen Univ.
 Panwang Pan Xiamen Univ.
 Xiaotong Luo Xiamen Univ.

9:00 - 17:00 ThP7.9
A Novel Underwater Localization Algorithm Fusing AHRS with Altimeters, pp. 791-794.
 Yang Luo Harbin Inst. of Tech.
 Jianguo Tao Harbin Inst. of Tech.

Zhandong Li Harbin Inst. of Tech.
Liang Ding Harbin Inst. of Tech.
Zongquan Deng Harbin Inst. of Tech.
Chenjian Zhao Shanghai Marine Equipment Research Inst.

Tingxi Wen Xiamen Univ.
Huailin Dong Xiamen Univ.
9:00 - 17:00 ThP7.11

9:00 - 17:00 ThP7.10
Classified Research on Epilepsy Electroencephalogram of RBF Neural Network Based on Particle Swarm, pp.

Design and Simulation of Hollow Rotating Lamp Frame for Stage, pp. 800-803.

795-799.
Kunsen Li Xiamen Univ.
Weizhen Luo Xiamen Univ.

Yanling Zhao Harbin Univ. of Sci. & Tech.
Jingwei Zhang Harbin Univ. of Sci. & Tech.
Wenjuan Li Harbin Univ. of Sci. & Tech.