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Technical Program

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Chair: Ms. Du Jing	Tsinghua Univ., China
13:10 - 13:25 <i>Enhancing English Vocabulary Learning via Computerized Adaptive Testing</i> , pp. 3-5. Yang Fang Zhang Huanrui Yang Mingrui	InS1.1 Tsinghua Univ. Tsinghua Univ. St.stephen's Episcopal School
13:25 - 13:40 <i>Knowledge System Modeling in MOOC</i> , pp. 6-8. Lingling Wu Li Zheng	InS1.2 Tsinghua Univ. Tsinghua Univ.
13:40 - 13:55 <i>Interactive Teaching Support Systems in Smart Classrooms: Research and Practice</i> , pp. 9-11. ZHONG Xiao-Liu LI Hai-Xia XU Jun-Hua SONG Shu-Qiang	InS1.3 Tsinghua Univ. Tsinghua Univ. Tsinghua Univ. Tsinghua Univ.
13:55 - 14:10 <i>Synchronized UML Diagrams for Object-Oriented Program Comprehension</i> , pp. 12-17. Jeong Yang Young Lee Deep Gandhi Sruthi Ganesan Valli	InS1.4 Texas A&M Univ.-San Antonio Texas A&M Univ.-Kingsville Texas A&M Univ.-Kingsville Texas A&M Univ.-Kingsville
14:10 - 14:25 <i>A Unified Approach to Automate the Usage of Plagiarism Detection Tools in Programming Courses</i> , pp. 18-23. A. Omar Portillo-Dominguez Vanessa Ayala-Rivera Evin Murphy John Murphy	InS1.5 Univ.College Dublin Univ.College Dublin Univ.College Dublin Univ.College Dublin
14:25 - 14:40 <i>Putting Computer Engineering and Computer Science Programs Together - The Case of AlBaha University</i> , pp. 24-29. Nadeem Hassan	InS1.6 AlBaha Univ.
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Chair: Prof. LI Fengxia Co-Chair: Dr. Yue Yu	Beijing Inst. of Tech., China Beijing Inst. of Tech., China
13:10 - 13:25 <i>Digital Logic Experiment Teaching Based on Experimental Platform</i> , pp. 30-34. Li Shanshan Yang Shiqiang	InS2.1 Tsinghua Univ. Tsinghua Univ.
13:25 - 13:40 <i>Smart Mobile APP of Museum -Investigations and Design for Local Culture Protection</i> , pp. 35-38. Binyue CUI Wei ZHOU Guangquan FAN Yanbin WU	InS2.2 Hebei Univ. of Economics & Business Beijing Jiaotong Univ. Hebei Univ. of Economics & Business Hebei Univ. of Economics & Business
13:40 - 13:55 <i>Online Learning Support based on Learning Process in Blended Learning</i> , pp. 39-43. Wangjia Zhang	InS2.3 Ocean Univ. of China
13:55 - 14:10 <i>The Application of 3D Printing in Mathematics Education</i> , pp. 44-47.	InS2.4

Yuyang Sun Qingzhong Li	Capital Normal Univ. Capital Normal Univ.
14:10 - 14:25 <i>A HCI Design for Developing Touch-Operation-Based DGS: What You Think is What You Get</i> , pp. 48-53. Xiaowei Zhong Yongsheng Rao	InS2.5 Guangzhou Univ. Guangzhou Univ. Guizhou Provincial Academician Workstation of Educational Big Data Tech. & Educational Mathematics Guangzhou Univ. Guangzhou Univ.
Juan Tang Yong Huang	
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Chair: Prof. Hiroki TAKADA	Univ. of Fukui, Japan
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15:30 - 15:45 <i>Numerical Simulation of Equilibrium Systems While Viewing Stereoscopic Video Clips</i> , pp. 68-71. Fumiya Kinoshita Hiroki Takada	InS3.3 Toyama Prefectural Univ. Univ. of Fukui
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BPA1	Oral Session
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Chair: Dr. Weng Yang	Sichuan Univ., China

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Thomas Hvid Spangsberg		Aarhus Univ.
Martin Brynskov		Aarhus Univ.
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Tobias Fauser		Embry-Riddle Aeronautical Univ.
Stephen Bruder		Embry-Riddle Aeronautical Univ.
Aly El-Osery		New Mexico Tech
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Hiromu Ishio		Fukuyama City Univ.
Ryota Kimura		Nagoya Univ.
Masaru Miyao		Nagoya Univ.
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Jiancheng Zou		North China Univ. of Tech.
Honggen Zhang		North China Univ. of Tech.
Tengfan Weng		North China Univ. of Tech.
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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
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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
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Chair: Dr. Cui Binyue		Hebei Univ. of Economics & Business, China
15:00 - 15:15		BPA2.1
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Jing DU		Tsinghua Univ.
Jian YANG		Tsinghua Univ.
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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
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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
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Yue Yu		Beijing Inst. of Tech.

Fengxia Li
Sanyuan Zhao
Hua Liu

Beijing Inst. of Tech.
Beijing Inst. of Tech.
Beijing Inst. of Tech.

16:00 - 16:15

BPA2.5

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Suyou Li
Zhigang Guo
Yaqiong Liu
Guochu Shou
Yihong Hu

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Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications

16:15 - 16:30

BPA2.6

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Qi Wang
Haipeng Wan
Shengquan Yu

Beijing Normal Univ.
Beijing Normal Univ.
Beijing Normal Univ.

ThA1

Oral Session

Artificial Intelligence

Chair: Dr. M. A. Rafe Biswas
Co-Chair: Silvino José P. S. Bastos

The Univ. of Texas at Tyler, USA
Univ. of Texas at El Paso, Brazil

10:20 - 10:35

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Therrick-Ari Anderson

Lincoln Univ.

10:35 - 10:50

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Jiazhi Du
Rui Shi
Yuanyi Zhen
Weigang Lu

Ocean Univ. of China
East China Normal Univ.
Ocean Univ. of China
Ocean Univ. of China

10:50 - 11:05

ThA1.3

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Jiazhi Du
Shijun Dong
Chunrong Li
Weigang Lu

Ocean Univ. of China
Ocean Univ. of China
Ocean Univ. of China
Ocean Univ. of China

11:05 - 11:20

ThA1.4

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Mohammad Abu Rafe Biswas
Melvin D. Robinson

Univ. of Texas at Tyler
Univ. of Texas at Tyler

11:20 - 11:35

ThA1.5

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Zhaohui Luo
Weisheng He
Minghui Liwang
Lianfen Huang
Yifeng Zhao
Jun Geng

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Beijing Univ. of Posts & Telecommunications

11:35 - 11:50

ThA1.6

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Silvino P. Bastos
Gustavo A. Sáenz
Anupama B. Kaul

Univ. of Texas at El Paso
Univ. of Texas at El Paso
Univ. of Texas at El Paso

ThA2

Oral Session

Information & Technology

Chair: Prof. Lee Li
Co-Chair: Shujiao Wang

National Sun Yat-Sen Univ., Taiwan
Beijing Univ. of Posts & Telecommunications, China

10:20 - 10:35

ThA2.1

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Li Lee

National Sun Yat-Sen Univ.

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 Bingwu Chen Xiamen Univ.

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 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

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 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

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

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 Chair: Naser Al Madi Kent State Univ., USA

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 Han Zhen-zhong National Univ. of Defense Tech.
 Liu Pei-guo National Univ. of Defense Tech.
 Mao Jian National Univ. of Defense Tech.
 Jimei Univ.

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 Ping Zhong Central South Univ.
 Hugang Gu Central South Univ.
 Pengfeng Li Central South Univ.
 Min Xiao Xiamen Univ. of Tech.
 Xiaofeng Du Xiamen Univ. of Tech.

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 Naser S Al Madi Kent State Univ.
 Javed I Khan Kent State Univ.

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 Lianfen Huang Xiamen Univ.
 Jianghe Yang Xiamen Univ.
 Chao Feng Xiamen Univ.

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 Chair: Nikilesh Urella Louisiana State Univ., USA
 Co-Chair: Celong Liu Louisiana State Univ., USA

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 Jiemin Zhang Jimei Univ.
 Fangda Lu Texas State Univ.
 Jian Mao Jimei Univ.

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 Yong Zhang Beijing Univ. of Posts & Telecommunications

Shuoming Zhang
Ruonan Li
Da Guo
Yifei Wei
Yan Sun

Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Beijing Univ. of Posts & Telecommunications
Baidu China Co., Ltd.

14:00 - 14:15

ThB1.3

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Nikilesh Urella
Jennifer Hughes
Erich Conrad
Junsong Zhang
Xin Li

Louisiana State Univ.
Louisiana State Univ.
Louisiana State Univ.
Xiamen Univ.
Louisiana State Univ.

14:15 - 14:30

ThB1.4

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Celong Liu
Zhonggui Chen
Xin Li

Louisiana State Univ.
Xiamen Univ.
Louisiana State Univ.

14:30 - 14:45

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Yang Shuaishuai
Yu Zhengwei
Liu Bin
Lu Yunfeng
Gao Zhijie

Beihang Univ.
Beihang Univ.
Beihang Univ.
Beihang Univ.
96658 Units

ThB2

Oral Session

Computer Application II

Chair: Assistant Prof. Zhao Caidan

Xiamen Univ., China

13:30 - 13:45

ThB2.1

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Shuang Zhao
Qing Wang

Tianjin Univ.
Tianjin Univ.

13:45 - 14:00

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Yue Yu
Xiangru Chen
Jiancheng Qiao
Fengxia Li

Beijing Inst. of Tech.
Beijing Inst. of Tech.
Beijing Inst. of Tech.
Beijing Inst. of Tech.

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Caidan Zhao
Mingxian Shi
Zhibiao Cai
Caiyun Chen

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Univ.

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Liu Jinming

Liu Taikang
Zhang Jiemin
Li Yongmei

National Univ. of Defense Tech.
Jimei Univ.
Electronics Tech. Group Corporation
Jimei Univ.
Jimei Univ.

14:30 - 14:45

ThB2.5

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Benbin Chen
Lingli Xie
Hong Tian
Li'an Chen

Xiamen Univ. of Tech.
Xiamen Univ. of Tech.
Xiamen Univ. of Tech.
Xiamen Univ. of Tech.

ThB3

Oral Session

Education Reform and Innovation

Chair: Mr. Roosevelt Stallings III
Co-Chair: Jia Yue

Lincoln Univ., USA
Dalian Neusoft Univ. of Info., China

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Ying Wang	South China Inst. of Software Engineering
Yongsheng Rao	Guangzhou Univ.
	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
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Na Wang	Shanghai Polytechnic Univ.
Chuang Ma	Shanghai Polytechnic Univ.
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Roosevelt Stallings III	Lincoln Univ.
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Liu Zhaobin	Suzhou Vocational Univ.
	Jiangsu Province Support Software Engineering R&D Center for
	Modern Info. Tech. Application in Enterprise
	Suzhou Vocational Univ.
Liu Wenzhi	Jiangsu Province Support Software Engineering R&D Center for
	Modern Info. Tech. Application in Enterprise
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Jia Yue	Dalian Neusoft Univ. of Info.
Han Rui	Dalian Rockwell Automation Co., Ltd

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Kunhui Lin	Xiamen Univ.
Yangbin Pan	Xiamen Univ.
Xiaoli Wang	Xiamen Univ.
Mengsang Wu	Xiamen Univ.
Shiyu Su	Xiamen Univ.
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Yuqian Li	Nanjing Univ. of Posts & Telecommunications
Feng Zhu	Nanjing Univ. of Posts & Telecommunications
Peng Li	Nanjing Univ. of Posts & Telecommunications
Ruchuan Wang	Nanjing Univ. of Posts & Telecommunications
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Kunhui Lin	Xiamen Univ.
Liting Jing	Xiamen Univ.
Meihong Wang	Xiamen Univ.
Ming Qiu	Xiamen Univ.
Ze'an Ji	Xiamen Univ.
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Da Huo	Beijing Inst. of Tech.
Yufeng Chen	Beijing Inst. of Tech.
Fengxia Li	Beijing Inst. of Tech.
Zhengchao Lei	Beijing Inst. of Tech.
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Pengsong Duan	Zhengzhou Univ.
Zhen Li	Zhengzhou Univ.

Yamin Wang Bo Zhang Yangjie Cao	Zhengzhou Univ. Zhengzhou Univ. Zhengzhou Univ.
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9:00 - 17:00 <i>Safety Management System for College Students' Outdoor Activities Based on Mobile Terminal</i> , pp. 361-366. ZHANG Yi CEN Gang SHEN Liqiang HUA Yifeng LUO Junyan CHEN Xuan	ThP1.11 Zhejiang Univ. of Sci. & Tech. Zhejiang Univ. of Sci. & Tech. Zhejiang Univ. of Sci. & Tech. Zhejiang Univ. of Sci. & Tech. Zhejiang Univ. of Sci. & Tech. Zhejiang Univ. of Sci. & Tech.
9:00 - 17:00 <i>Research on Relation between Average Degree and Convergence Performance of Distributed Synchronization Algorithm in WSNs</i> , pp. 367-371. Xuan Zhang Xiao Lin Zhe Zheng Qi Yang	ThP1.12 Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
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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
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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
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Xiaoqin Huang		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
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Yi Wang		Northwestern Polytechnical Univ.
Yang Yang		AVIC Xi'an Flight Automatic Control Research Inst.
9:00 - 17:00		ThP2.5
<i>A HMM-based Content Forwarding Strategy in LEO Satellite System</i> , pp. 401-406.		
Weidong Liao		Beijing Univ. of Posts & Telecommunications
Yong Zhang		Beijing Univ. of Posts & Telecommunications
Tengteng 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
9:00 - 17:00		ThP2.6
<i>An Improved Binary Search RFID Anti-collision Algorithm</i> , pp. 407-411.		
Youjing Bai		Xiamen Univ.
Lvqing Yang		Xiamen Univ.
Guoxing Zhang		Xiamen Univ.
Yezi Xu		Xiamen Univ.
9:00 - 17:00		ThP2.7
<i>Saliency Detection for RGBD Image Using Optimization</i> , pp. 412-415.		
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		ThP2.8
<i>Smart Home System Design Based on Internet of Things</i> , pp. 416-420.		
Rui Liu		Ningxia Univ.
Yongqi Ge		Ningxia Univ.
9:00 - 17:00		ThP2.9
<i>Interactive Smart Home Design Based on Internet of Things</i> , pp. 421-425.		
Yujun Han		Jiangsu Vocational Inst. of Commerce
Baobin Liu		Jiangsu Vocational Inst. of Commerce
9:00 - 17:00		ThP2.10
<i>Research on Text Mining Algorithm Based on Focused Crawler</i> , pp. 426-429.		
Qiusheng Zhang		Hubei Business College

Mingyu Lin
Jianping Jun
Xingyun Zhang

Hubei Business College
Hubei Business College
Hubei Business College

9:00 - 17:00

ThP2.11

Research on Evaluation of Early Childhood Education Software, pp. 430-435.

Zhang Liqin
Huang Xiao

Jiangxi Sci. & Tech. Normal Univ.
Jiangxi Sci. & Tech. Normal Univ.

9:00 - 17:00

ThP2.12

Improved K-Means Algorithm Based on Hybrid Fruit Fly Optimization and Differential Evolution, pp. 436-439.

Jixiong Hu
Chunzhi Wang
Chuan Liu
Zhiwei Ye

Hubei Univ. of Tech.
Hubei Univ. of Tech.
Hubei Univ. of Tech.
Hubei Univ. of Tech.

9:00 - 17:00

ThP2.13

Automatic Diagnosing of Infant Hip Based on Graf Criteria, pp. 440-445.

Xiang Yu
Dongyun Lin
Weiyao Lan
Bingan Zhong
Ping Lv

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Haicang Hospital
Xiamen Maternal & Children Health Care Hospital

ThP3

Poster Session

Computer Science II

9:00 - 17:00

ThP3.1

Research on the Design of Teaching Service APP Based on User Experience – Taking "i Sino-Korea" as an Example, pp. 446-451.

Lu Geng

Shanghai Univ. of Engineering Sci.

9:00 - 17:00

ThP3.2

A Research on Simultaneous Fault Diagnosis Based on Paired-RVM, pp. 452-457.

Wei Jiang
Liping Yang

City College of Wuhan Univ. of Sci. & Tech.
Huazhong Agricultural Univ.

9:00 - 17:00

ThP3.3

Peer to Peer Traffic Identification Using Support Vector Machine and Bat-Inspired Optimization Algorithm, pp. 458-464.

Liu Chuan
Chunzhi Wang
Hu Jixiong
Zhiwei Ye

Hubei Univ. of Tech.
Hubei Univ. of Tech.
Hubei Univ. of Tech.
Hubei Univ. of Tech.

9:00 - 17:00

ThP3.4

Research and Implementation of Laser Shooting System Based on Linux, pp. 465-470.

Dengyou Wang
Shunxiang Wu
Weiming Guo

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.

9:00 - 17:00

ThP3.5

A Forensics Method for Android Devices Based on the Technique of Temporary Root, pp. 471-474.

Weiming Guo
Shunxiang Wu
Dengyou Wang

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.

9:00 - 17:00

ThP3.6

Link Prediction Algorithm Based on Local Centrality of Common Neighbor Nodes Using Multi-Attribute Ranking, pp. 475-480.

Mingqiang Zhou
Rongchen Liu
Xin Zhao
Qingsheng Zhu

Chongqing Univ.
Chongqing Univ.
Chongqing Univ.
Chongqing Univ.

9:00 - 17:00

ThP3.7

Research on the Error of the Fourier Algorithm with DC Filtering in Fault Current Calculation of Power System, pp. 481-484.

Zhou Shijie
Li Hongguang
Li Guangfa
Wen Weihong
Zhang Shijia
Cui Jian
Chen Li'an

Guangzhou Power Supply Co. Ltd
Guangzhou Power Supply Co. Ltd
Guangzhou Power Supply Co. Ltd
Guangzhou Power Supply Co. Ltd
Guangzhou Power Supply Co. Ltd
Xiamen Univ. of Tech.
Xiamen Univ. of Tech.

Tian Hong Chen Benbin	Xiamen Univ. of Tech. Xiamen Univ. of Tech.
9:00 - 17:00 <i>Cascaded Five-level Inverter System by Model-based Design</i> , pp. 485-489. Wenjuan Li Zheda Ren Chunfeng Yue Yanbo Xu	ThP3.8 Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech.
9:00 - 17:00 <i>Curriculum Standards Development in China and Case Study</i> , pp. 490-493. Haiyan Lu Defu Zheng	ThP3.9 Weidong Cloud Education Group Weidong Cloud Education Group
9:00 - 17:00 <i>Design of Software Structure for a Novel Pole Mounted Switch Controller Based on Embedded Linux</i> , pp. 494-498. Guo Minghai Zhang Senhua Ma Wenjing Deng Ming Gong Xiaodong Tian Hong Chen Li'an Chen Benbin	ThP3.10 Guangzhou Power Supply Co. Ltd Guangzhou Power Supply Co. Ltd Guangzhou Power Supply Co. Ltd Guangzhou Power Supply Co. Ltd Guangzhou Power Supply Co. Ltd Xiamen Univ. of Tech. Xiamen Univ. of Tech. Xiamen Univ. of Tech.
9:00 - 17:00 <i>Software Reliability Evaluation Method based on Fault Propagation Testing</i> , pp. 499-504. He Ren-ya Tang Long-li Wang Xiao-liang Yu Zheng-wei Wu Yu-mei	ThP3.11 China State Shipbuilding Corporation China State Shipbuilding Corporation China State Shipbuilding Corporation Beihang Univ. Beihang Univ.
9:00 - 17:00 <i>L1-regularization Logistic Regression for Event-driven Stock Market Prediction</i> , pp. 505-510. Si-Shu Luo Yang Weng Wei-Wei Wang Wen-Xing Hong	ThP3.12 Sichuan Univ. Sichuan Univ. Xiamen Univ. Xiamen Univ.
ThP4 Engineering Education I	Poster Session
9:00 - 17:00 <i>A New Marking Technique in Semi-Automated Assessment</i> , pp. 511-516. Selim Buyrukoglu Firat Batmaz Russell Lock	ThP4.1 Loughborough Univ. Loughborough Univ. Loughborough Univ.
9:00 - 17:00 <i>Seizing the SPOC Opportunity and Promoting Reform of University Computer Foundation Teaching in Independent Colleges</i> , pp. 517-522. Ran Juan	ThP4.2 Tianjin Univ. Renai College
9:00 - 17:00 <i>Integrated Experiment Design of Digital Logic Course and Computer Composition Principle Course</i> , pp. 523-527. Dongdong Zhang Lisheng Wang Yuchen Guo	ThP4.3 Tongji Univ. Tongji Univ. Tongji Univ.
9:00 - 17:00 <i>Design of Computer Network Experimental Course in Flipped Laboratory Mode</i> , pp. 528-531. Chen-zhi Guan	ThP4.4 Nanchang Normal Univ.
9:00 - 17:00 <i>Experimental Teaching Design and Practice on Big Data Course</i> , pp. 532-535. Xiaotao Huang Niannian Qin Xiaofang Zhang Fen Wang	ThP4.5 Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech. Huazhong Univ. of Sci. & Tech.

9:00 - 17:00		ThP4.6
<i>Research on the Teaching Reform of Database Curriculum Major in Computer in Big Data era</i> , pp. 536-539.		
Lin Mingyu		Hubei Business College
Jun Jianping		Hubei Business College
Zhu Yi		Hubei Business College
Zhan Cuili		Hubei Business College
9:00 - 17:00		ThP4.7
<i>The Application of Teaching Method Based on Project-driven in the Teaching of "Principle and Application of DSP"</i> , pp. 540-543.		
Zhou Jingjing		Hubei Business College
Zhan Cuili		Hubei Business College
Zhu Yi		Hubei Business College
Lin Mingyu		Hubei Business College
9:00 - 17:00		ThP4.8
<i>Research on the Blended Teaching Mode of "Basic Computer Science" Based on "MOOC + Virtual Experiment"</i> , pp. 544-547.		
Wang Li-wen		Xi'an Univ. of Sci. & Tech.
HUANG Xu		Xi'an Univ. of Sci. & Tech.
9:00 - 17:00		ThP4.9
<i>Analysis and Reflections on Talent Cultivation of Profession Master's Degree in Modern Educational Technology</i> , pp. 548-552.		
He Yang		Hubei Univ. of Education
Si Xiong		Hubei Univ. of Education
9:00 - 17:00		ThP4.10
<i>The Monitoring and Early-warning System of Students' learning Based on the Campus Cloud</i> , pp. 553-556.		
Zhang FuSheng		Harbin Univ.
Yang Ling		Harbin Univ.
Jia ZongFu		Harbin Univ.
Qi XinJun		Harbin Univ.
Zong MingKui		Harbin Univ.
9:00 - 17:00		ThP4.11
<i>Practice and Study of the Flipped Classroom Based on Active Learning Ability Enrichment</i> , pp. 557-560.		
Leng Junqiang		Harbin Institute of Tech. at Weihai
Zhai Jing		Harbin Institute of Tech. at Weihai
Li Jianghua		Harbin Engineering Univ.
9:00 - 17:00		ThP4.12
<i>Teaching Mode Reform of Computer Major Oriented by Engineering Ability Training</i> , pp. 561-565.		
Dongdong Zhang		Tongji Univ.
Lisheng Wang		Tongji Univ.
Zhihua Wei		Tongji Univ.
Guofeng Qin		Tongji Univ.
Chen Ye		Tongji Univ.
Yuchen Guo		Tongji Univ.
9:00 - 17:00		ThP4.13
<i>Exploration of Teaching Method of Python Programming Based on the Case of Technical Problem</i> , pp. 566-569.		
Guanghui Zhao		Wuhan Univ. of Tech.
Shumin Zhao		Wuhan Univ. of Tech.
Chengming Zou		Wuhan Univ. of Tech.
Zhaoxia Wang		Wuhan Univ. of Tech.
9:00 - 17:00		ThP4.14
<i>The Feasibility and Prospect of University Education Reform Based on the Integration of Education and Industry</i> , pp. 570-573.		
Lei Li		Harbin Finance Univ.
Jingjia Qi		Harbin Finance Univ.

ThP5 Engineering Education II

Poster Session

9:00 - 17:00		ThP5.1
<i>The Course Interest Analysis of Extracurricular Scientific Practical Activity of Students in Grade Seven</i> , pp. 574-579.		
Wei Yungang		Beijing Normal Univ.
Shi Lina		Beijing Normal Univ.
Sun Bo		Beijing Normal Univ.
Zhu Xiaoming		Beijing Normal Univ.
9:00 - 17:00		ThP5.2

Flipped Classroom Teaching Design based on SPOC in Ordinary Undergraduate College, pp. 580-583.

Guihua Han
Mingyu Lin
Cuilin Li
Jianping Ju

Hubei Business College
Hubei Business College
Hubei Business College
Hubei Business College

9:00 - 17:00

ThP5.3

Research on the Reform of Flipped Classroom in Computer Science of University Based on SPOC, pp. 584-588.

Sufang An
Wenbin Li
Jichao Hu
Lixiao Ma
Jiwei Xu

Hebei GEO Univ.
Hebei GEO Univ.
Hebei GEO Univ.
Hebei GEO Univ.
Hebei GEO Univ.

9:00 - 17:00

ThP5.4

Study on Influence and Revelation of Flipped Classroom on University Education, pp. 589-591.

Yang Lin
Li Huiyan

Sanya Univ.
Sanya Univ.

9:00 - 17:00

ThP5.5

Comparative Study of Innovation and Entrepreneurship Education, pp. 592-596.

Chengjiang Lu
Hongming Zhu

Guangdong Inst. of Sci. & Tech.
Harbin Univ. of Sci. & Tech.

9:00 - 17:00

ThP5.6

Research on Design and Development of High-quality Micro-lecture Resources, pp. 597-601.

Dan Dan Wei
Le Xing Qiu
Hua Hua Yu

Jiangxi Sci. & Tech. Normal Univ.
Nan Chang Army College
Jiangxi Sci. & Tech. Normal Univ.

9:00 - 17:00

ThP5.7

Research on the Improvement of Python Language Programming Course Teaching Methods based on Visualization, pp. 602-607.

Xiaoyan Kui
Weiguo Liu
Jiazhi Xia
Huakun Du

Central South Univ.
Central South Univ.
Central South Univ.
Central South Univ.

9:00 - 17:00

ThP5.8

Statistical Graph Classification in Intelligent Mathematics Problem Solving System for High School Student, pp. 608-613.

Yafei Shi
Yantao Wei
Ting Wu
Qingtang Liu

Central China Normal Univ.
Central China Normal Univ.
Central China Normal Univ.
Central China Normal Univ.

9:00 - 17:00

ThP5.9

The Construction of Undergraduate Data Mining Course in the Big Data Age, pp. 614-617.

Xiaofang Zhang
Xiaotao Huang
Fen Wang

Huazhong Univ. of Sci. & Tech.
Huazhong Univ. of Sci. & Tech.
Huazhong Univ. of Sci. & Tech.

9:00 - 17:00

ThP5.10

A Visualization Knowledge Peer Network (VKPN) Approach to Scaffold Social Learning, pp. 618-621.

Jinju Duan

South West Univ.

9:00 - 17:00

ThP5.11

Automatic Testing Scheme of Hardware Description Language Programs for Practice Teaching, pp. 622-625.

Lisheng Wang
Hang Zhou
Dongdong Zhang

Tongji Univ.
Tongji Univ.
Tongji Univ.

9:00 - 17:00

ThP5.12

MIPS CPU Test System for Practice Teaching, pp. 626-629.

Lisheng Wang
Jianhong Ruan
Dongdong Zhang

Tongji Univ.
Tongji Univ.
Tongji Univ.

9:00 - 17:00

ThP5.13

The Exploration of Interactive Software Engineering Training Model, pp. 630-635.

Xiubo Liang
Yanlei Chen
Qichun Huang

Zhejiang Univ.
Zhejiang Univ.
Zhejiang Univ.

9:00 - 17:00	ThP5.14
<i>Design and Implementation of Software Outsourcing Talent Training Public Service Platform</i> , pp. 636-638.	
Jiang Li	Hangzhou Normal Univ.
Zhan Guohua	Hangzhou Normal Univ.
Niu Chengming	
Yu Ge	
Xu Yonggang	
Li Zhihua	

ThP6	Poster Session
Engineering Education III	

9:00 - 17:00	ThP6.1
<i>Research on the Influence Factor of Kindergarten Teachers' Information Technology Use Behavior</i> , pp. 639-643.	
Zhang Liqin	Jiangxi Sci. & Tech. Normal Univ.
Wan Chunhui	Jiangxi Water Resources Inst.

9:00 - 17:00	ThP6.2
<i>Exploration and Research on the Construction of MOOC + SPOC Platform based on Internet Data Center</i> , pp. 644-649.	
Bo Chen	Hubei Univ. of Sci. & Tech.
Chun-hui Wu	Hubei Univ. of Sci. & Tech.
Hong-sheng Chen	Hubei Univ. of Sci. & Tech.

9:00 - 17:00	ThP6.3
<i>A Lifelong Learning System Based on School-enterprise Cooperation</i> , pp. 650-653.	
Baobin Liu	Jiangsu Vocational Inst. of Commerce
Wei Zhou	Jiangsu Vocational Inst. of Commerce

9:00 - 17:00	ThP6.4
<i>Education Data Mining: How to Mine Interactive Text in MOOCs using Natural Language Process</i> , pp. 654-659.	
Feng Yu	Harbin Univ. of Commerce
Dequan Zheng	Harbin Univ. of Commerce

9:00 - 17:00	ThP6.5
<i>Discovering Learning Behavior Patterns to Predict Dropout in MOOC</i> , pp. 660-664.	
Bowei Hong	Ocean Univ. of China
Zhiqiang Wei	Ocean Univ. of China
Yongquan Yang	Ocean Univ. of China

9:00 - 17:00	ThP6.6
<i>Reform of Teaching Mode for Computer Specialty Based on MOOCs</i> , pp. 665-668.	
Xinlu Zong	Hubei Univ. of Tech.
Hui Xu	Hubei Univ. of Tech.

9:00 - 17:00	ThP6.7
<i>The Design and Implementation of Generic Practice Evaluation Platform for iStudy</i> , pp. 669-672.	
Pan Tingting	Hangzhou Normal Univ.
Zhan Guohua	Hangzhou Normal Univ.
Zhang Liang	
Yu Ge	
Xu Yonggang	
Li Zhihua	
Qi Bin	

9:00 - 17:00	ThP6.8
<i>Teaching Reform and Practice of the Basic Computer Course based on Flipped Classroom</i> , pp. 673-676.	
LiXiao Ma	Hebei GEO Univ.
JiChao Hu	Hebei GEO Univ.
YiYing Chen	Hebei GEO Univ.
XueJing Liu	Hebei GEO Univ.
WenBin Li	Hebei GEO Univ.

9:00 - 17:00	ThP6.9
<i>The Design and Implementation for Automatic Evaluation System of Virtual Experiment Report</i> , pp. 677-681.	
Yufeng Chen	Beijing Inst. of Tech.
Xuemin Liu	Beijing Inst. of Tech.
Panpan Huo	Beijing Inst. of Tech.
Lin Li	Beijing Inst. of Tech.
Fengxia Li	Beijing Inst. of Tech.

9:00 - 17:00		ThP6.10
<i>Multi-Dimensional Computer Basic Education Practice and Research</i> , pp. 682-685.		
Yizhi Wang	Beijing Jiaotong Univ.	
Wei Zhou	Beijing Jiaotong Univ.	
Lingyun Lu	Beijing Jiaotong Univ.	
9:00 - 17:00		ThP6.11
<i>Teaching Practise of Blended Learnig on Computer General Courses for Undergraduates</i> , pp. 686-689.		
Chunli Chen	China Univ. of Sci.s(Beijing)	
Xinqi Zheng	China Univ. of Sci.s(Beijing)	
9:00 - 17:00		ThP6.12
<i>Integrating MOOC and SPOC into the Physical Classroom for Fundamentals of Computer Course</i> , pp. 690-693.		
Yanling Shao	Nanyang Inst. of Tech.	
Qingji Xue	Nanyang Inst. of Tech.	
Xuejian Sun	Nanyang Inst. of Tech.	
Haiquan Yuan	Nanyang Inst. of Tech.	
9:00 - 17:00		ThP6.13
<i>Research on the Model of University Computer Innovation Teaching in MOOC + SPOC under Deep Cooperative</i> , pp. 694-699.		
Zhang Chunying	North China Univ. of Tech.	
Liu Ying	North China Univ. of Tech.	
9:00 - 17:00		ThP6.14
<i>A Real-Time Virtual Piano Based on Gesture Capture Data</i> , pp. 700-703.		
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
<i>A Virtual Experiment Platform Based on OpenStack</i> , pp. 704-709.		
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
<i>Electronic Medical Record System based on Augmented Reality</i> , pp. 710-713.		
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
<i>Fault Diagnosis of Wind Turbine Planetary Gear Box Based on EMD and Resonance Demodulation</i> , pp. 714-719.		
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
<i>Simulation Study on Gear Fault Diagnosis Simulation Test-bed of Doubly Fed Wind Generator</i> , pp. 720-725.		
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
<i>Energy Harvesting System and Circuits for Ambient WiFi Energy Harvesting</i> , pp. 726-729.		
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
<i>Experimental Study on Heat Transfer and Resistance Performance of Corrugated Tube</i> , pp. 730-733.	
Zhengchong Hu	Hubei Business College
Yiming Chen	Hubei Business College
Wei Pi	Hubei Business College
9:00 - 17:00	ThP7.6
<i>EMC Design of Intelligent Pole-mounted Switch Controller</i> , pp. 734-738.	
Li Bingkun	South China Univ. of Tech.
9:00 - 17:00	ThP7.7
<i>Hardware Scheme of a Universal Intelligent Pole-Mounted Switchgear Controller</i> , pp. 739-743.	
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
<i>A Design of Multi-vision Localization and Navigation Service Robot System</i> , pp. 744-747.	
Jia Guo	Xiamen Univ.
Xingyu Xiao	Xiamen Univ.
Panwang Pan	Xiamen Univ.
Xiaotong Luo	Xiamen Univ.
9:00 - 17:00	ThP7.9
<i>A Novel Underwater Localization Algorithm Fusing AHRS with Altimeters</i> , pp. 748-751.	
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.
9:00 - 17:00	ThP7.10
<i>Classified Research on Epilepsy Electroencephalogram of RBF Neural Network Based on Particle Swarm</i> , pp. 752-756.	
Kunsen Li	Xiamen Univ.
Weizhen Luo	Xiamen Univ.
Tingxi Wen	Xiamen Univ.
Huailin Dong	Xiamen Univ.
9:00 - 17:00	ThP7.11
<i>Design and Simulation of Hollow Rotating Lamp Frame for Stage</i> , pp. 757-760.	
Yanling Zhao	Harbin Univ. of Sci. & Tech.
Jingwei Zhang	Harbin Univ. of Sci. & Tech.
Wenjuan Li	Harbin Univ. of Sci. & Tech.