

# **2018 13th International Conference on Computer Science & Education (ICCSE 2018)**

**Colombo, Sri Lanka  
8-11 August 2018**



**IEEE Catalog Number: CFP1889F-POD  
ISBN: 978-1-5386-5496-5**

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IEEE Catalog Number:	CFP1889F-POD
ISBN (Print-On-Demand):	978-1-5386-5496-5
ISBN (Online):	978-1-5386-5495-8
ISSN:	2471-6146

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# Technical Program

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InS3	Earls Court
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Chair: Prof. LI Fengxia Co-Chair: A.P. LI Lin A.P. CHEN Yufeng	Beijing Inst. of Tech., China Beijing Inst. of Tech., China
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YAN Lingyu CAI Wencheng PAN Shang	Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech.
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<b>InS5</b>	<b>Earts Court</b>
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J. A. D. C. JAYAKODY I. MURRAY J. HERMANN S. LOKULIYANA V.R. DULUWILA	Curtin Univ. of Tech. Curtin Univ. Curtin Univ. Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech.
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LIU Kun LIU Peng WANG Chaoyu FU Tingting	Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ. Hangzhou Dianzi Univ.
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Shashika Lokuliyana Anuradha JAYAKODY Bandara N.B.R.P. Deshapriya J.W.P. Kavinda P.C. Wijewickrema T.L.	Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech.
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Yasuyuki MATSUURA Hiroki TAKADA	Gifu City Women's College Univ. of Fukui
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Sriendra Deshan ILANGAKOON Abeywardena K.Y	Sri Lanka Inst. of Information Tech. Sri Lanka Inst. of Information Tech.
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ZOU Jiancheng ZHANG Honggen	North China Univ. of Tech. North China Univ. of Tech.
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J. A. D. C. JAYAKODY	Curtin Univ. of Tech.

I. MURRAY  
J. HERMANN  
S. LOKULIYANA  
V.R. DULUWILA

Curtin Univ.  
Curtin Univ.  
Sri Lanka Inst. of Information Tech.  
Sri Lanka Inst. of Information Tech.

14:30 - 14:45

*A Robust Control Paradigm for Path Following of an Underwater Robotic Vehicle*, pp. 466-471.

Bhathiya RATHNAYAKE  
K.M.K. WEERAKOON  
G.M.R.I. GODALIYADDA  
M.P.B. EKANAYAKE

BPA1.5

Sri Lanka Technological Campus  
Sri Lanka Technological Campus  
Univ. of Peradeniya  
Univ. of Peradeniya

14:45 - 15:00

*AD Mini: Memory Improvement Tool for Alzheimer's Patients*, pp. 556-561.

D.S.D.WEERAKOON  
K.A.D.C.P.KAHANDAWAARACHCHI  
W. P. M.Thilakasiri  
J. D. S. Y. Dissanayake  
W.D.M.B.SHANTHAKUMARA

BPA1.6

Sri Lanka Inst. of Information Tech.  
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Sri Lanka Inst. of Information Tech.  
Sri Lanka Inst. of Information Tech.

**BPA2**

**Duke Court 2**

**Best Paper Award Session II**

Chair: Prof. ZHOU Wei

Beijing Jiaotong Univ., China

15:20 - 15:35

*An Application of EDM: Design of A New Online System for Correcting Exam Paper*, pp. 335-340.

LI Ying

Beihang University, China Princeton University, USA

BPA2.1

15:35 - 15:50

*An Academic Emotion Database and The Baseline Evaluation*, pp. 378-383.

BIAN Cunling  
ZHANG Ya  
WANG Deliang  
LIANG Yi  
WU Bo  
LU Weigang

BPA2.2

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

15:50 - 16:05

*Online Virtual Experiment Teaching Platform for Database Technology and Application*, pp. 437-440.

LI Lin  
CHEN Yufeng  
LI Zhongjun  
LI Dongni  
LI Fengxia  
HUANG Hua

BPA2.3

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

16:05 - 16:20

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YU Mei  
XU Tianyi  
GAO Jie  
YU Ruiguo  
DENG Rui  
LIU Ying  
ZHANG Yan  
FENG Shuang

BPA2.4

Tianjin University  
Tianjin Univ.  
Tianjin Univ.  
Tianjin Univ.  
Tianjin Univ.  
Tianjin Univ.  
Tianjin Univ.  
Tianjin Univ.

16:20 - 16:35

*The Flipped Classroom Model and Implementation Method in University Computer General Teaching*, pp. 511-516.

JIN Ying  
TAO Xianping

BPA2.5

Nanjing Univ.  
Nanjing Univ.

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S.C.M. de S Sirisuriya  
L.Ranathunge  
S.P. Karunanayake  
N. A. Abdullah

General Sir John Kotelawala Defence Univ.  
Univ. of Moratuwa  
Faculty of Education, Open Univ.  
Univ. Malaya

BPA2.6

**FriA1**

**Duke Court1**

**Education & Technology**

Chair: Prof. HU Jie

Zhejiang Univ. China

8:30 - 8:15

*Intelligent Student Services Administration System in The Context of Collegiate University*, pp. 259-262.

FENG Tianxiang  
CEN Gang  
CHEN Bo  
ZHANG Yifan

FriA1.1

Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.

8:45 - 9:00

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RAN Juan

FriA1.2

Renai College of Tianjin Univ.

ZHANG Guiyun  
ZHENG Tong  
WANG Wenhui

Tianjin Normal Univ.  
Renai College of Tianjin Univ.  
Renai College of Tianjin Univ.

9:00 - 8:45

FriA1.3

*Beyond: Mathematical Learning Tool for Primary Level Visual Impaired Students*, pp. 341-345.

Wageesha CHINTHAKA  
Pradeep ABEYGUNAWARDHANA

Sri Lanka Inst. of Information Tech.  
Sri Lanka Inst. of Information Tech.

9:15 - 9:30

FriA1.4

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Nimanthi PEIRIS  
Divya AMUNUGAMA  
Janaka WIJEKOON

Rajarata Univ. of Sri Lanka  
Sri Lanka Inst. of Information Tech.  
Sri Lanka Inst. of Information Tech.

9:30 - 9:45

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SHI Zhiyuan  
LI Hanbo  
LIN Hezhi  
HUANG Lianfen

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

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**FriA2**

**Duke Court 2**

**Data Science**

Chair: Prof. Rahula Attalage

Dean-Faculty of Graduate Studies & Research, SLIIT

8:30 - 8:45

FriA2.1

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HONG Wenxing  
ZHENG Xiaoqing  
QI Jianwei  
WANG Weiwei  
WENG Yang

Xiamen Univ.  
Xiamen Univ.  
Xiamen Univ.  
Xiamen Univ.  
Sichuan Univ.

8:45 - 9:00

FriA2.2

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WANG Xingbo

Foshan Univ. of Sci. & Technology Guangdong Engineering Center of  
Information Security for Intelligent Manufacturing System

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Suneth PATHIRANA  
David ASIRVATHAM  
Md Gapar Md Johar

Management & Sci. Univ.  
Taylor's Univ.  
Management & Sci. Univ.

9:15 - 9:30

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WANG Hao  
XIONG Caiquan  
QI Caiyun  
YIN Ziwei  
YOU Hui

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

9:30 - 9:45

FriA2.5

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K.T.S. KASTHURIARACHCHI  
S.R. LIYANAGE

Univ. of Kelaniya  
Univ. of Kelaniya

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**FriB1**

**Earls Court**

**Computer Application I**

Chair: Prof. Chandimal Jayawardena

Faculty of Computing, SLIIT

10:20 - 10:35

FriB1.1

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ZHANG Pei  
SONG You  
KANG Biaobiao  
CHEN Wei

Beihang Univ.  
Beihang Univ.  
Beihang Univ.  
Tencent Univ. Relations

10:35 - 10:50

FriB1.2

*Teaching Resources Construction of Fundamentals of Computers in The Cloud Platform*, pp. 423-427.

WEI Yuanyuan  
ZHU Ping  
WU Wanping  
HU Xinrong

Wuhan Textile Univ.  
Wuhan Textile Univ.  
Wuhan Textile Univ.  
Wuhan Textile Univ.

10:50 - 11:05

FriB1.3

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XU Zengwei  
CEN Gang  
CEN Yuefeng  
LI Xiangdong

Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.  
Zhejiang Univ. of Sci. & Tech.

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Chair: Bogdan SMOLKA		Silesian Univ. of Technology, Poland
10:20 - 10:35		FriB2.1
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10:35 - 10:50		FriB2.2
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<i>The Impact of 3D Games on Brain Blood Flow Dynamics and Its Utilization</i> , pp. 824-829.	Masumi TAKADA Kikuo ITO Toru TANIMURA Hiroshi TAHARA Akihiro SUGIURA Hiroki TAKADA	Yokkaichi Nursing & Medical Care Univ. Neurosky Japan Inc. Univ. of Fukui Remedia Co. Ltd., CEO Gifu Univ. of Medical Sci. Univ. of Fukui
<b>FriB3</b>		<b>Duke Court 2</b>
<b>Artificial Intelligence</b>		
Chair: Anuradha JAYAKODY		Sri Lanka Inst. of Information Tech., Sri Lanka
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LIN Kunhui  
GAO Chuchu  
WANG Xiaoli  
QIU Ming

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

10:50 - 11:05

FriB3.3

*How to Enhance Chinese Word Segmentation Using Knowledge Graphs*, pp. 253-258.

LIN Kunhui  
DU Wenyuan  
WANG Xiaoli  
WANG Meihong  
YANG Zixiang

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

11:05 - 11:20

FriB3.4

*A Method based on Support Vector Machine for Voice Activity Detection on Isolated Words*, pp. 284-287.

DAI Cheng  
LUO Linkai  
PENG Hong  
SUN Qingyun

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

11:20 - 11:35

FriB3.5

*An LCS-based 2D Fragmented Image Reassembly Algorithm*, pp. 687-692.

Houman KAMRAN  
ZHANG Kang  
LI Maoqing  
LI Xin

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

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**FriC1**

**Earls Court**

**Education Reform and Innovation I**

Chair: Christina ANDERSSON

Flinders Univ., Australia

13:30 - 13:45

FriC1.1

*Analysis and Countermeasures on The Resignation Rate of College Students*, pp. 66-70.

ZHOU Wei  
LIU Baobin

Jiangsu Vocational Inst. of Commerce  
Jiangsu Vocational Inst. of Commerce

13:45 - 14:00

FriC1.2

*The Design and Implementation of Intersection Points of Geometric Figures in NetPad*, pp. 446-451.

CHEN Ruxian

Guangzhou University Guangdong Provincial Engineering & Tech.  
Research Center for Mathematical Education Software

RAO Yongsheng

Guangzhou University Guizhou Provincial Academician Workstation of  
Educational Big Data Tech. & Educational Mathematics

GUAN Hao

Univ. of the Chinese Academy of Sciences Chengdu Inst. of Computer  
Application The Chinese Academy of Sciences

WANG Ying

South China Inst. of Software Engineering

14:00 - 14:15

FriC1.3

*How Does College Students' Online Learning Behavior Impact Their Academic Performance*, pp. 591-595.

SONG You  
YANG Jingwei  
FEI Xinyi  
MA Xinxin  
MA Dongyuan

Beihang Univ.  
Beihang Univ.  
Beihang Univ.  
Beihang Univ.  
Tencent Univ. Relations

14:15 - 14:30

FriC1.4

*Key Components of An E-Learning Module in Statistics for Computer Science Students*, pp. 659-662.

Christina ANDERSSON  
Gerald KROISANDT

Frankfurt Univ. of Applied Sciences  
HTW Saar

14:30 - 14:45

FriC1.5

*The Interplay of Factors Affecting Learning of Introductory Programming: A comparative Study of An Australian and An Indian University*,

pp. 669-674.

Ritu SHARMA  
SHEN Haifeng

Flinders Univ.  
Flinders Univ.

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**FriC2**

**Duke Court 1**

**Education Reform and Innovation II**

Chair: Dr. Malitha Wijesundara

SLIIT, Sri Lanka

13:30 - 13:45

FriC2.1

*Application of PBL Based Sandwich Teaching on C Programming*, pp. 82-84.

HUANG Qingfeng  
HUANG Xiaotao  
FU Cai

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

13:45 - 14:00

FriC2.2

*Experimental Case Design of Digital Logic Based on Through-type Teaching*, pp. 552-555.

ZHANG Dongdong  
QIAN Pengfei  
WANG Lisheng  
GUO Yuchen  
SUN Chengyu

Tongji Univ.  
Tongji Univ.  
Tongji Univ.  
Tongji Univ.  
Tongji Univ.

14:00 - 14:15		FriC2.3
<i>Project Bhashitha – Mobile Based Optical Character Recognition and Text-to-Speech System</i> , pp. 623-628.		
D.S.S. De Zoysa	Sri Lanka Inst. of Information Tech.	
J.M. Sampath	Sri Lanka Inst. of Information Tech.	
E.M.P De Seram	Sri Lanka Inst. of Information Tech.	
D.M.I.D. Dissanayake	Sri Lanka Inst. of Information Tech.	
L.Wijerathna	Sri Lanka Inst. of Information Tech.	
S. Theilijagoda	Sri Lanka Inst. of Information Tech.	
14:15 - 14:30		FriC2.4
<i>The Impact of The Digital Learning on EFL Students' Critical Thinking Disposition</i> , pp. 640-643.		
WEI Yueer	Zhejiang Univ.	
HU Jie	Zhejiang Univ.	
14:30 - 14:45		FriC2.5
<i>A Correlation Between Entry Pre-College and Preparatory Year Grades: A Case Study at Shaqra University</i> , pp. 680-683.		
Mohammed Al-Asali	Shaqra Univ.	
Adel Alblawi	Shaqra Univ.	
Abdulaziz Alsayyari	Shaqra Univ.	
14:45 - 15:00		FriC2.6
<i>IELTF: An ICT-based Framework for English Language Education in Sri Lanka</i> , pp. 724-729.		
Uthpala WEERAKOON	Rajarata Univ. of Sri Lanka	
Ruvini MANAGE	Sri Lanka Inst. of Information Tech.	
Janaka L. Wijekoon	Sri Lanka Inst. of Information Tech.	
<b>FriC3</b>		<b>Duke Court 2</b>
<b>e-Society</b>		
Chair: Prof. ZHOU Wei		Beijing Jiaotong Univ., China
13:30 - 13:45		FriC3.1
<i>High-Frequency Stock Trend Forecast Using LSTM Model</i> , pp. 293-296.		
YAO Siyu	Xiamen Univ.	
LUO Linkai	Xiamen Univ.	
PENG Hong	Xiamen Univ.	
13:45 - 14:00		FriC3.2
<i>Breaking The Mirroring Development of The Digitization Industry of Nonphysical Cultural Heritage</i> , pp. 417-422.		
LI Chao	Wuhan Univ. of Tech.	
XIONG Wenfei	Wuhan Univ. of Tech.	
14:00 - 14:15		FriC3.4
<i>A Detecting Method of Electromagnetic Emanations Based on Stochastic Resonance</i> , pp. 580-583.		
LIU Jinming	Jimei Univ.	
LI Yongmei	Jimei Univ.	
ZHANG Jiemin	Jimei Univ.	
MAO Jian	Jimei Univ.	
14:15 - 14:30		FriC3.5
<i>Research on Multi-Source Data Fusion in the Field of Atmospheric Environmental Monitoring</i> , pp. 644-648.		
QIAN Yixin	Beijing Jiaotong Univ.	
ZHOU Wei	Beijing Jiaotong Univ.	
WANG Chunying	Hebei Sailhero Environmental Protection HI-tech Co. Ltd.	
14:30 - 14:45		FriC3.6
<i>Location Based Garbage Management System with IoT for Smart City?</i> , pp. 699-703.		
Shashika Lokuliyana	Sri Lanka Inst. of Information Tech.	
Anuradha JAYAKODY	Sri Lanka Inst. of Information Tech.	
G.S.B. DABARERA	Sri Lanka Inst. of Information Tech.	
R.K.R. RANAWEERA	Sri Lanka Inst. of Information Tech.	
P.G.D.M. PERERA	Sri Lanka Inst. of Information Tech.	
P.A.D.V.R. PANANGALA	Sri Lanka Inst. of Information Tech.	
<b>ThuP1</b>		
<b>New IT empower Education</b>		
9:00 - 17:00		ThuP1.1
<i>Case-based Teaching Organization for Python Programming That Focuses on Skill Training</i> , pp. 117-120.		
ZHAO Guanghui	Wuhan Univ. of Tech.	
LYU Yanjun	Wuhan Univ. of Tech.	
TIAN Yixiao	Wuhan Univ. of Tech.	
WANG Zhaoxia	Wuhan Univ. of Tech.	
ZOU Chengming	Wuhan Univ. of Tech.	
9:00 - 17:00		ThuP1.2
<i>Artificial Intelligence Education Ethical Problems and Solutions</i> , pp. 155-158.		
LI Sijing	Tianjin Normal Univ.	
WANG Lan	Tianjin Normal Univ.	
9:00 - 17:00		ThuP1.3
<i>Exploration of University Information Technology Curriculum Reform Based on MOOC and SPOC</i> , pp. 159-162.		
ZHANG Boya	Tianjin Normal Univ.	
WANG Lan	Tianjin Normal Univ.	

9:00 - 17:00	<i>Analyzing The Needs of The Automotive Job Market in Morocco</i> , pp. 210-215. Ibtissam MAKDOUN Ghita MEZZOUR Kathleen M CARLEY Ismail KASSOU	Universit'e Internationale de Rabat Universit'e Internationale de Rabat Carnegie Mellon Univ. Universit'e Mohammed V Rabat	ThuP1.4
9:00 - 17:00	<i>Research on Software Service Outsourcing Competition and Talent Cultivation Under The Background of New Engineering</i> , pp. 314-318. CHEN Rongrong ZHAN Guohua LI Zhihua	Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ.	ThuP1.5
9:00 - 17:00	<i>A Smart Cultivating and Sharing System for Indoor Plants Based on IoT and Fuzzy Controlling Scheme</i> , pp. 517-522. GUAN Shuo		ThuP1.6 Tongji Univ.
9:00 - 17:00	<i>Study on Teaching Reform of Computer Course in Medical University Based on MOOC</i> , pp. 529-532. CUI Jie NING Xiaomei WU Ming LI Fengxia	Qiqihar Medical Univ. Qiqihar Medical Univ. Qiqihar Medical Univ. Beijing Inst. of Tech.	ThuP1.7
9:00 - 17:00	<i>Asynchronous Online Peer Support: Barriers to Participation for International Students</i> , pp. 649-654. Angelika MAAG Nittarin TUMMAPET P.W.C. PRASAD Abeer ALSADOON Amr ELCHOUEMI	Study Group Australia Study Group Australia Study Group Australia Study Group Australia Waldern Univ.	ThuP1.8
9:00 - 17:00	<i>Rise of Social Media Marketing: A Perspective on Higher Education</i> , pp. 704-709. XIONG Liangyun Abeer ALSADOON Angelika MAAG P.W.C. PRASAD Lau Hiong HOE Amr ELCHOUEMI	Study Group Australia Study Group Australia 1Study Group Australia Study Group Australia Multimedia Univ. Waldern Univ.	ThuP1.9
<b>ThuP2</b>			
<b>Teaching &amp; Education</b>			
9:00 - 17:00	<i>Exploration and Practice of Talent Training Mode of Network Security Specialty</i> , pp. 5-8. ZHENG Lijuan ZHANG Yunzuo LIU Dan	Shijiazhuang Tiedao Univ. Shijiazhuang Tiedao Univ. Shijiazhuang Tiedao Univ.	ThuP2.1
9:00 - 17:00	<i>Flipped Classroom Teaching Model for Engineering Education Based on CDIO</i> , pp. 9-12. LI Yingqiu LUO Wei ZHAO Xu	Dalian Neusoft Univ. of Information Dalian Neusoft Univ. of Information Dalian Neusoft Univ. of Information	ThuP2.2
9:00 - 17:00	<i>The Exploration of the Curriculum Reform of Data Structure Based on MOOC+SPOC</i> , pp. 29-33. CHEN Shuying CHEN Lei	Shandong Inst. of Business & Tech. Shandong Inst. of Business & Tech.	ThuP2.3
9:00 - 17:00	<i>The Construction of Undergraduate Machine Learning Course in The Artificial Intelligence Era</i> , pp. 62-65. SUN Wenqian GAO Xing	Xiamen Univ. Software School Xiamen Univ. Software School	ThuP2.4
9:00 - 17:00	<i>Research and Practice of Micro Lesson Teaching Based on WeChat Public Platform-Taking The "Fundamentals of Computer Application" as An Example</i> , pp. 75-78. YANG Liangtao		ThuP2.5 Shanghai Polytechnic Univ.
9:00 - 17:00	<i>Flip Classroom Teaching Quality Assessment Method Based on Markov</i> , pp. 79-81. YUAN Hongli SUN Wenjuan CHEN Yan LIU Liqin	Anhui Xinhua Univ. Anhui Xinhua Univ. Anhui Xinhua Univ. Anhui Xinhua Univ.	ThuP2.6
9:00 - 17:00	<i>Design and Performance Analysis on Static and Dynamic Pipelined CPU in Course Experiment of Computer Architecture</i> , pp. 111-116. QIN Guofeng HU Yue		ThuP2.7 Tongji Univ. Tongji Univ.

HUANG Linyu Guo Yuchen		Tongji Univ. Tongji Univ.
9:00 - 17:00 <i>Characteristic Personnel Training and Teaching Reform via Advanced Centralized Practice Courses Under The New Format of Internet</i> , pp. 135-139.		ThuP2.8
MENG Yun LU Zhengqiu		Ningbo Dahongying Univ. Zhejiang Fashion Inst. of Tech.
9:00 - 17:00 <i>Study on Fuzzy Evaluation of The Quality of MOOC Teaching Based on AHP</i> , pp. 183-186.		ThuP2.9
LI Minzhi SUN Qi		Lanzhou Jiaotong Univ. Lanzhou Jiaotong Univ.
9:00 - 17:00 <i>The Comprehensive Experiment in The Course of Computer Organization and Architecture</i> , pp. 221-226.		ThuP2.10
ZHANG Sheng LIU Hong		Nanchang Hangkong Univ. Nanchang Hangkong Univ.
9:00 - 17:00 <i>Research on The Project Teaching Evaluation Model Based on AHP</i> , pp. 233-236.		ThuP2.11
XIONG Caigao PAN Dal		Hubei Business College Hubei Business College
9:00 - 17:00 <i>Research on The Application of Digital Engraving Software in The Teaching of Digital Media Art Design Course— Centered on The Course of Three-Dimensional Modeling</i> , pp. 243-247.		ThuP2.12
YANG Yuan		Shanghai Univ. of Engineering Sciences
9:00 - 17:00 <i>The Teaching Exploration and Practice of DSP Course</i> , pp. 280-283.		ThuP2.13
ZHOU Jingjing ZHU Yi ZHAN Cuili LIN Mingyu		Hubei Business College Hubei Business College Hubei Business College Hubei Business College
9:00 - 17:00 <i>Research and Design of Course Experiment System Based on Cloud Platform Taking “The Advanced Application of Office Software” as An Example</i> , pp. 288-292.		ThuP2.14
NIU Chengming ZHAN Guohua LI Zihua		Hangzhou Normal Univ. Hangzhou Normal Univ. Hangzhou Normal Univ.
9:00 - 17:00 <i>Experiences in Blended Learning Based on Blackboard in Hubei University of Education</i> , pp. 324-329.		ThuP2.15
YANG He  XING Zheng QING Wang HAN Yongjing		Hubei Univ. of Education Wuhan Huada National ELearning Technologies Co., Ltd Wuhan Mechanical Tech. College Hubei Univ. of Education Hubei Univ. of Education
9:00 - 17:00 <i>Application of The SPOC Mixed Teaching Mode in The Post-MOOC Period</i> , pp. 358-362.		ThuP2.16
LI Tong WANG Qiaojie XIE Kai		Beijing Inst. of Graphic Communication Beijing Hospital Beijing Inst. of Graphic Communication
9:00 - 17:00 <i>An Image Retrieval Learning Platform with Authentication System</i> , pp. 363-367.		ThuP2.17
LU Shengyu		Xiamen Univ.
9:00 - 17:00 <i>Exploration and Consideration on the Course System Construction of IoT Specialty</i> , pp. 373-377.		ThuP2.18
LUO Juan WANG Chun ZHENG Yanliu ZHAO Huan LI Zhiyong XIAO Degui		Hunan Univ. Hunan Univ. Hunan Univ. Hunan Univ. Hunan Univ. Hunan Univ.
9:00 - 17:00 <i>On OBE-CDIO into Inquiry Teaching Reform</i> , pp. 408-411.		ThuP2.19
JIA Yue		Dalian Neusoft Univ. of Information
9:00 - 17:00 <i>Construction and Exploration of Software Development Professional Training Platform Based on College-enterprise Collaborative Education Mode</i> , pp. 412-416.		ThuP2.20
WANG Xinghui JIA Yue		Dalian Neusoft Univ. of Information Dalian Neusoft Univ. of Information
9:00 - 17:00 <i>An E-learning Support Middleware with Quiz Automatic Selection for MOOC</i> , pp. 488-492.		ThuP2.21

XIA Tian	Shanghai Second Polytechnic Univ.
9:00 - 17:00 <i>Research on Application of SPOC Flipped Classroom in Computer Basic Courses</i> , pp. 539-541.	ThuP2.22
LIAO Yunyan YU Qiang WANG Changjing	Jiangxi Normal Univ. Jiangxi Normal Univ. Jiangxi Normal Univ.
9:00 - 17:00 <i>A Method for Analysis of Online Discussion Forum in Moodle</i> , pp. 548-551.	ThuP2.23
HU Qingchun HUANG Yong  DENG Liping	East China Univ. of Sci. & Tech. Shanghai Audio-video Education Center, Shanghai Distance Education Group Shanghai, China Hong Kong Baptist Univ.
9:00 - 17:00 <i>A Deep Learning Approach for Online Learning Emotion Recognition</i> , pp. 567-571.	ThuP2.24
MA Chao SUN Chongliang SONG Donglei LI Xuan XU Hao	Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ. Jilin Univ. Zhuhai College of Jilin Univ.
9:00 - 17:00 <i>Reform and Research of Computer Professional Curriculum System Based on Systematic Capability Training under The Background of Emerging Engineering Education</i> , pp. 572-576.	ThuP2.25
CHEN Shuying  CHEN Lei	Key Laboratory of Intelligent Information Processing in Universities of Shandong Shandong Inst. of Business & Tech. Shandong Inst. of Business & Tech.
9:00 - 17:00 <i>Exploration of MOOC+SPOC Mixed Teaching Mode in College Computer Foundation Course</i> , pp. 577-579.	ThuP2.26
WU Yue WU Xiaohua CHEN Jia ZHAO Xuejun	Beijing Univ. of Posts & Telecommunications China Univ. of Mining & Technology, Beijing China Univ. of Mining & Technology, Beijing China Univ. of Mining & Technology, Beijing
9:00 - 17:00 <i>Analysis of Mobile Learning Function and Design Principles Based on WeChat</i> , pp. 584-587.	ThuP2.27
JIANG Jie HOU Yuan XIONG Zhen	Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>The Design of Mobile Learning Resources Based on WeChat</i> , pp. 588-590.	ThuP2.28
JIANG Jie HOU Yuan XIONG Zhen	Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>Construction of Students' Comprehensive Quality Evaluation Model Based on Improved AHP</i> , pp. 618-622.	ThuP2.29
QIN Feng CHENG Yao ZHENG Xiao	Anhui Univ. of Tech. Anhui Univ. of Tech. Anhui Univ. of Tech.
9:00 - 17:00 <i>Research on Clustering Mining and Feature Analysis of Online Learning Behavioral Data Based on SPOC</i> , pp. 629-634.	ThuP2.30
ZHANG Guiyun ZHANG Yu RAN Juan	Tianjin Normal Univ. Tianjin Normal Univ. Renai College of Tianjin Univ.
9:00 - 17:00 <i>The Application of KNN Algorithm Based on Time Factor in The Warning Mechanism of Dismissal in Colleges and Universities</i> , pp. 714-718.	ThuP2.31
XU Xuelin LV Xiulin LI Hongyi ZHAO Di	Beihang Univ. Beihang Univ. Beihang Univ. Beihang Univ.
9:00 - 17:00 <i>Design and Development of ASP-based Network Teaching Platform</i> , pp. 742-746.	ThuP2.32
YUAN Jiugen XING Ruonan KUANG Rongrong	JiangXi Sci. & Tech. Normal Univ. Jiangxi Normal Univ. Jiangxi Normal Univ.
9:00 - 17:00 <i>Teaching System Design of Moodle-based Mobile Terminal</i> , pp. 747-751.	ThuP2.33
YUAN Jiugen XING Ruonan KUANG Rongrong	JiangXi Sci. & Tech. Normal Univ. Jiangxi Normal Univ. Jiangxi Normal Univ.
9:00 - 17:00 <i>An Optimization of PAD Paradigm for Higher Vocational Education Based on Effective Learning</i> , pp. 756-759.	ThuP2.34

XU Xiaohui GUO Xinyi	Chongqing College of Electronic Engineering Chongqing College of Electronic Engineering
9:00 - 17:00 <i>Research on Innovation in Programming Course for Applied Undergraduates</i> , pp. 766-769. WANG Na LI Liping	ThuP2.35 Shanghai Polytechnic Univ. Shanghai Polytechnic Univ.
9:00 - 17:00 <i>Cluster Analysis on The Teaching Evaluation Data from College Students</i> , pp. 839-844. GU Pingping ZHENG Yuhui	ThuP2.36 Xiamen Univ. Tan Kah Kee College Xiamen Univ.
9:00 - 17:00 <i>Design and Teaching Practice of Simulation Experiment of "I" Shaped Metamaterial</i> , pp. 850-853. JIN Jie WANG Qing LI Yi ZHENG Zexun HE Zhengrui LI Xi LIU Gaohua SU Hansong	ThuP2.37 Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ.
<b>ThuP3 Computer Application</b>	
9:00 - 17:00 <i>Shilling Attack Detection Based on Data Tracking</i> , pp. 13-16. QI Lingtao HUANG Haiping WANG Peng WANG Ruchuan	ThuP3.1 Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications Nanjing Univ. of Posts & Telecommunications
9:00 - 17:00 <i>Investigation and Analysis of Blended Learning Based on MOOC + SPOC</i> , pp. 24-28. GOU Pingzhang SONG Shanshan ZENG Yuxuan REN Xiaokang	ThuP3.2 Northwest Normal Univ. Northwest Normal Univ. Northwest Normal Univ. Northwest Normal Univ.
9:00 - 17:00 <i>Application of Transfer Learning in The Recognition of TAO</i> , pp. 34-39. WU Cong ZOU Yixuan	ThuP3.3 Hubei Univ. of Tech. Hubei Univ. of Tech.
9:00 - 17:00 <i>Simulation Analysis of Gear Local Fault by Drive Motor Stator Current Method under The Inverter Environment</i> , pp. 40-45. SHI Xianjiang ZHU Xiangdong ZHANG Jian	ThuP3.4 Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech. Harbin Univ. of Sci. & Tech.
9:00 - 17:00 <i>Nonlinear H-infinity Control for Spacecraft Attitude Maneuver Based on SOS Optimization</i> , pp. 46-51. ZHOU Yanru HUANG Chengkai SUN Yuan SHAO Zhenhua	ThuP3.5 Xiamen Univ. of Tech. Xiamen Univ. of Tech. Xiamen Univ. of Tech. Xiamen Univ. of Tech.
9:00 - 17:00 <i>A New Multi-Layer Classification Method Based on Logistic Regression</i> , pp. 52-55. KANG Kai GAO Fengqiang FENG Junguo	ThuP3.6 Xiamen Univ. Tan Kah Kee College Xiamen Univ. Tan Kah Kee College Xiamen Univ. Tan Kah Kee College
9:00 - 17:00 <i>Design of Intelligent Fire-fighting System of A Big Public Building Emergency Evacuation Navigation System for Mobile Terminal</i> , pp. 90-95. JIANG Huixian ZHANG Shaoping	ThuP3.7 Fujian Normal Univ. Fujian Normal Univ.
9:00 - 17:00 <i>Multi-modal University Teaching Research Based on Big Data</i> , pp. 96-99. ZHANG Xingyun ZHANG Qiusheng	ThuP3.8 Hubei Business College Hubei Business College
9:00 - 17:00 <i>A New Certificateless Signcryption Scheme without Bilinear Pairing</i> , pp. 106-110. LI Cul BAI Yun SHI Lin BAI Wenhua	ThuP3.9 National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech. National Univ. of Defense Tech.

9:00 - 17:00 <i>Level Set Image Segmentation of CV-GAC Model</i> , pp. 121-125. YANG Lin TONG Luo	ThuP3.10 Sanya Univ. Sanya Univ.
9:00 - 17:00 <i>An Adapted Query Tree Anti-collision Algorithm Based on Information of Collided Tags</i> , pp. 126-130. XU Yezi QIU Yishu YANG Lvqing LU Jinsheng BAI Youjing	ThuP3.11 Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Research on Blended Teaching Reform and Innovation Strategy Based on MOOC Education</i> , pp. 131-134. WANG Hao LI Huiyan	ThuP3.12 Tianjin University Sanya Aviation & Tourism College Sanya Univ.
9:00 - 17:00 <i>Design and Implementation of Driver's License Recognition System</i> , pp. 140-143. KANG Kai XIE Hehan	ThuP3.13 Xiamen Univ. Tan Kah Kee College Xiamen Univ. Tan Kah Kee College
9:00 - 17:00 <i>Course Design for Personal Information Security Literature with New-media Teaching</i> , pp. 150-154. LIU Xiaoli LIN Longxin CHEN Zhangrong LUO Sanchuan HE Tengjiao DU Baorong	ThuP3.14 Jinan Univ. Jinan Univ. Jinan Univ. Jinan Univ. Jinan Univ. Jinan Univ.
9:00 - 17:00 <i>The Research on Flying Vehicle Decelerating Control Method</i> , pp. 174-177. QIN Xiaoli YANG Ming	ThuP3.15 Sci. & Tech. on Space Physics Laboratory Sci. & Tech. on Space Physics Laboratory
9:00 - 17:00 <i>Disciplinary Variations in Computer Programming</i> , pp. 187-191. SITU Fangling SONG You MA Xinxin MA Dongyuan	ThuP3.16 Beihang Univ. Beihang Univ. Beihang Univ. Tencent Univ. Relations
9:00 - 17:00 <i>Convolutional Neural Network-based Joint Extraction of Adverse Drug Events</i> , pp. 197-201. ZHAO Junzhe ZHOU Tianying DAI Wenhua	ThuP3.17 Hubei Univ. of Sci. & Tech. Hubei Univ. of Sci. & Tech. Hubei Univ. of Sci. & Tech.
9:00 - 17:00 <i>Spectrum Multiplexing for LTE-U and Wi-Fi in Heterogeneous Network</i> , pp. 216-220. SU Yuhan HUANG Lianfen KE Siqiang TANG Yuliang	ThuP3.18 Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Research on Streaming Media Cache Optimization Based on Mobile Edge Computing</i> , pp. 227-232. HE Weisheng SU Yuhan HUANG Lianfen ZHAO YiFeng	ThuP3.19 Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Simulation Model of Emergency Evacuation Based on Artificial Fish Swarm Algorithm</i> , pp. 263-268. ZONG Xinlu FAN Xinkai JIANG Yingli DU Jiayuan WANG Yichao	ThuP3.20 Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech.
9:00 - 17:00 <i>Research on 3D Reconstruction Based on Multiple Views</i> , pp. 269-273. CHEN Xu WU Qingfeng WANG Shengzhe	ThuP3.21 Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Exploration of Computer-related Majors School-enterprise Cooperation Training Model under The Background of New Engineering</i> , pp. 297-301. ZHANG Qiusheng LIN Mingyu	ThuP3.22 Hubei Business College Hubei Business College

9:00 - 17:00 <i>Research on The Economic Hinterland Division of Port Sea-rail Combined Transportation</i> , pp. 308-313. YE Chong CHEN Shuai	ThuP3.23  Fuzhou Univ. Fuzhou Univ.
9:00 - 17:00 <i>A Compression Algorithm of Fastq File Based on Distribution Characteristics Analysis</i> , pp. 368-372. LU Shengyu CHEN Hanping PENG Lifa WANG Beizhan WANG Hongji ZHOU Xiuze	ThuP3.24  Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Research on Fintech Industry Development and Talent Training Status</i> , pp. 384-387. SUN Mei LIN Peiguang NIE Xiushan	ThuP3.25  Shandong Univ. of Finance & Economics Shandong Univ. of Finance & Economics Shandong Univ. of Finance & Economics
9:00 - 17:00 <i>Re-examining The Community of Inquiry Framework from The Perspective of Learning Analytics</i> , pp. 393-397. XU Songer LUO Heng TAN Yueying	ThuP3.26  Central China Normal Univ. Central China Normal Univ. Central China Normal Univ.
9:00 - 17:00 <i>Distributed Hybrid Rice Algorithm Based on Hadoop</i> , pp. 398-401. YAN Lingyu LUO Qixing DENG Xingpeng CHEN Hongwei YE Zhiwei	ThuP3.27  Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech. Hubei Univ. of Tech.
9:00 - 17:00 <i>Research on UI Visual Design of Digital Museum Based on User Experience</i> , pp. 428-431. TONG Yanting CUI Binyue CHEN Yulin	ThuP3.28  Wuhan Univ. of Tech. College Hebei Univ. of Economics & Business Tamkang Univ.
9:00 - 17:00 <i>A Hybrid Collaborative Filtering Algorithm Based on KNN and Gradient Boosting</i> , pp. 432-436. LU Shengyu WANG Beizhan WANG Hongji HONG Qingqi	ThuP3.29  Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>A Virtual Experiment Platform for Principles of Digital Communication</i> , pp. 472-475. SHENG Yu WEN Dezheng SONG Hong DUAN Guihua AN Ying	ThuP3.30  Central South Univ. Central South Univ. Central South Univ. Central South Univ. Central South Univ.
9:00 - 17:00 <i>Urban Population Growth Model Based on SPSS Regression Analysis</i> , pp. 481-487. SONG Xinfang	ThuP3.31  Beijing Information Tech. College
9:00 - 17:00 <i>The Research of Assembling Computer Based on Augmented Reality</i> , pp. 493-495. XIONG Zhen ZHI Lin JIANG Jie	ThuP3.32  Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>The Research of Developing Virtual Jewelry Worn System Based on AR Toolkit</i> , pp. 496-498. XIONG Zhen ZHI Lin JIANG Jie	ThuP3.33  Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>An Improved BM3D Method for cDNA Microarray Image Denoising</i> , pp. 523-528. SHAO Guifang GAO Yubo ZUO Jiayu YUE Yuqing YANG Jianbo	ThuP3.34  Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Design and Implementation of Personalized Spots Route Recommendation System</i> , pp. 533-538. CAO Langcai	ThuP3.35  Xiamen Univ.



TAO Jian CHEN Bilitan		Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>On Secondary Development of PTV-VISSIM for Traffic Optimization</i> , pp. 542-547.		ThuP3.36
YANG Lu LAN Weiyao		Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>A Study of Camera Application Methods in The Unity 3D</i> , pp. 608-610.		ThuP3.37
KUANG Yang BAI Xiaomei ZHOU Xiaoya		Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>The Research of Virtual Reality Scene Modeling Based on Unity 3D</i> , pp. 611-613.		ThuP3.38
KUANG Yang BAI Xiaomei		Jiang Xi Sci. & Tech. Normal Univ. Jiang Xi Sci. & Tech. Normal Univ.
9:00 - 17:00 <i>The Reform of Computer Basic Course Teaching Model Promoted by Competition for College Students</i> , pp. 791-793.		ThuP3.39
YU Niefang PENG Xiaoning LI Xiaomei		Huaihua Univ. Huaihua Univ. Huaihua Univ.
9:00 - 17:00 <i>Evaluation of O2O E-tailers with Threshold Policy and Drop Shipping Option under Multiperiod Environments</i> , pp. 809-813.		ThuP3.40
CHENG Yuepeng	Hebei Univ. of Economics & Business North China Inst. of Aerospace Engineering	
CHEN Na HAN Lei	Hebei Univ. of Economics & Business Meteorological Tech. & Equipment Centre of Hebei Province	
9:00 - 17:00 <i>Integration of Science and Technology into the Ocean Policies of Industrialized Counties and Its Development</i> , pp. 814-818.		ThuP3.41
KOMORI Yuta	Ocean Policy Research Institute, Japan The Sasakawa Peace Foundation, Japan	
GOJO Riho	Meiji University, Japan	
9:00 - 17:00 <i>A Smart and Active Way for Protection of Local Cultural Heritages</i> , pp. 819-823.		ThuP3.42
CUI Binyue ZHOU Wei Fan Guangquan WU Yanbin CUI Yijie	Hebei Univ. of Economics & Business Beijing Jiaotong Univ. Hebei Univ. of Economics & Business Hebei Univ. of Economics & Business Inner Mongolia Univ.	
9:00 - 17:00 <i>Design and Implementation of College Consumption Analysis System Based on NoSQL Database</i> , pp. 830-834.		ThuP3.43
ZHENG Haishan JIANG Xiaolian		Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Research on Automatic Test of WEB System Based on LOADRUNNER</i> , pp. 835-838.		ThuP3.44
QIU Linling WU Qingfeng		Xiamen Univ. Xiamen Univ.
9:00 - 17:00 <i>Software Realization of Network Off-line Scheduling with Time-Triggered Ethernet on the Basis of Response Constraint</i> , pp. 845-849.		ThuP3.45
WANG Qing TENG Liping YANG Yaotong WU Huimin HONG Wenxing LI WenJian		Tianjin Univ. Tianjin Univ. Tianjin Univ. Tianjin Univ. Xiamen Univ. TianJin Jinhang Computing Tech. Research Inst.