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<tr>
<th>Session</th>
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<tbody>
<tr>
<td>WeA1.1</td>
<td>Juvenile Robot Programming</td>
<td>CHEN Yongqiang, Tao Pin</td>
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<td>WeA1.2</td>
<td>Multi-integrated Reform for the Course of Data Structure</td>
<td>Qian Wang, Dongsheng Zou, Liang Ge</td>
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<td>WeA1.3</td>
<td>Precision Teaching Based on Data-driven Model</td>
<td>Ying Li, Zhang Jiong, Tianyu Chen</td>
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<td>WeA1.4</td>
<td>Research and Design of Computer Main Course Standard</td>
<td>Ying Li, Li Zheng, Shicheng Yu, Qianben Qi</td>
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<td>WeA1.5</td>
<td>Research on the Knowledge and Ability Dual-driven Teaching Model for the Course of Compilers Principles</td>
<td>Yanxiang HE, Zhuomin DU, Hanfei WANG</td>
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<tr>
<td>WeA1.6</td>
<td>Research on the Knowledge Hierarchy and Practical Teaching of Operating System course under the Background of Emerging Engineering</td>
<td>Xiangqun Chen, Weizhen Sun, Yu Luo, Lei Wang, Yong Xiang</td>
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<tr>
<td>WeA1.7</td>
<td>Sustainable C++ Education in General High School: from Teaching Programming Skills to Developing Computational Thinking</td>
<td>Wang Xiduo, Liu Jialin, Zhang Zhizhen</td>
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<tr>
<td>WeA1.8</td>
<td>Exploiting Crowd-based Learning Method in Software Engineering Course</td>
<td>Xinjun Mao, Yao Lu, Yi Yang</td>
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<tr>
<td>WeA1.9</td>
<td>Web-based Teamwork: Distributed Software Development Course under Covid-19</td>
<td>Rui ZHANG, Pedro Mestre, Carlos Serodio, Matilia Prada, Wenjuan GAO</td>
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WeB1
Invited Session II

Chair: Hiroki Takada
Univ. of Fukui

2020-8-19 14:00 - 16:00

A Study of Evaluation of Vision Training System to Prevent Mild Cognitive Impairment
Fumiya Kinoshita
Toyama Prefectural Univ.
Rentaro Ono
Univ. of Fukui
Keita Ichikawa
Univ. of Fukui
Kosuke Hirayama
Univ. of Fukui
Masumi Takada
Yokkaichi Nursing & Medical Care Univ.
Hiroki Takada
Univ. of Fukui

2020-8-19 14:00 - 16:00

Corona E-Learning Cocktail - Sustainability of University Education in Times of Pandemics
Carsten Lecon
Univ. of Applied Sciences

2020-8-19 14:00 - 16:00

Course Selection Optimization: Case study - Faculty of Science, University of Peradeniya, Sri Lanka
Rumali Perera
Univ. of Peradeniya
Erurika Dayaratna
Univ. of Peradeniya

2020-8-19 14:00 - 16:00

Detection of Careless Mistakes during Programming Learning using a Simple Electroencephalograph
Katsuyuki Umezawa
Shonan Inst. of Tech.
Makoto Nakazawa
Junior College of Aizu
Manabu Kobayashi
Waseda Univ.
Yuutaka Ishii
Chiba Univ.
Mchiko Nakano
Waseda Univ.
Shigeichi Hirasesawa
Waseda Univ.

2020-8-19 14:00 - 16:00

Development and Evaluation of a Real-time Analysis Method for Free-Description Questionnaire Responses
Yoshihiro Adachi
Toyo Univ.
Takanori Negishi
Toyo Univ.

2020-8-19 14:00 - 16:00

Distributed Computational Framework in TOTEM Architecture Enabled by Blockchain
Dhanya Therese Jose
Univ. of Stavanger
Antorweep Chakravorty
Univ. of Stavanger
Chunming Rong
Univ. of Stavanger

2020-8-19 14:00 - 16:00

Numerical Analysis of Body Sway for Evaluation of 3D Sickness
Kohki NAKANE
Univ. of Fukui
Rentaro ONO
Univ. of Fukui
Shotaro YAMAMOTO
Univ. of Fukui
Masumi TAKADA
Yokkaichi Nursing & Medical Care Univ.
Fumiya KINOSHITA
Toyama Prefectural Univ.
Akihiro SUGIURA
Gifu Univ. of Medical Sci.

2020-8-19 14:00 - 16:00

Viewer's Age Dependence in Subjective Evaluation of Low-Quality Images Presented on High-Definition Displays
Hiromu Ishio
Fukuyama City Univ.
Masaru Miyao

WeC1
Invited Session III

Chair: Yun Guo
Nankai Univ.

2020-8-19 14:00 - 16:00

A New Teaching Pattern and Evaluation System of Knowledge Point Puzzle in Massive Online Computer Courses
Peipei Gao
Nankai Univ.
Yuanhong Zhao
Brunel Univ. London
Fang Wang
Brunel Univ. London
Mingxiao Lu
Nankai Univ.

2020-8-19 14:00 - 16:00

Analysis of College Students’ attitudes
Meixue Wu
Nankai Univ.
Formative and Summative Assessment in University Programming Course: Mediation of Problem-Based Learning and Moderation of Peer Evaluation, pp. 112-117.

Research on the Relationship between Air Pollution and College Students’ Exam Scores, pp. 118-122.

Student Achievement Analysis and Prediction Based on the Whole Learning Process, pp. 123-128.

Teaching Practice and Exploration of Compiling Principles under the Background of First-class Curriculum Construction, pp. 129-132.


A New Simple Programming Language for Education, pp. 145-149.


Different Perspectives on Students, pp. 156-161.

Mariann Hardey  
Sue Black  

Durham Univ.  

2020-8-19 16:00 - 18:00  
Incorporating IoT and Data Analytics in an Introductory Programming Course, pp. 169-175.  
Gina Cooper  
Russ Walker  
Ed Hill  
Natalie Waksman  
DevVry Univ.  

2020-8-19 16:00 - 18:00  
Lujing Yu  
Hui Jiang  
Hongming Zhu  
Qinpei Zhao  
Jessie Chen  
Tongji Univ.  

2020-8-19 16:00 - 18:00  
Jialin Yu  
Oalanrewaju Tahir Aduragba  
Zhonglian Sun  
Sue Black  
Lei Shi  
Durham Univ.  

WeB2  
Computer Science I  
Chair: Qing Wang  
Tianjin Univ.  

2020-8-19 16:00 - 18:00  
A New Bearing-Fault Classification Method Based on Deep Learning, pp. 191-196.  
Junjie Deng  
Gege Luo  
Caidan Zhao  
Xiamen Univ.  

2020-8-19 16:00 - 18:00  
An Intelligent Maritime Communication Signal Recognition Algorithm Based on ACWGAN, pp. 197-201.  
Zhao Caidan  
He Zeping  
Luo Gege  
Chen Caiyun  
Xiamen Univ.  

2020-8-19 16:00 - 18:00  
Detection of Android Malicious Family Based on Manifest Information, pp. 202-205.  
Yingmin Zhang  
Chao Feng  
Lianfen Huang  
Chaolin Ye  
Le Weng  
Xiamen Univ.  

2020-8-19 16:00 - 18:00  
Huwen Lin  
Hezhi Lin  
Xiaoxuan Fang  
Mingkang Wang  
Lianfen Huang  
Xiamen Univ.  

2020-8-19 16:00 - 18:00  
Zhehao Zhou  
Shenbao Yu  
Jiewen Guan  
Bilian Chen  
Langcai Cao  
Xiamen Univ.  

2020-8-19 16:00 - 18:00  
Multi-modal Laryngeal Data Acquisition and Processing System, pp. 217-221.  
Jiacheng Xuan  
Hezhi Lin  
Xiamen Univ.  

WeB2.1  
A New Bearing-Fault Classification Method Based on Deep Learning  
Junjie Deng  
Gege Luo  
Caidan Zhao  
Xiamen Univ.  

WeB2.2  
An Intelligent Maritime Communication Signal Recognition Algorithm Based on ACWGAN  
Zhao Caidan  
He Zeping  
Luo Gege  
Chen Caiyun  
Xiamen Univ.  

WeB2.3  
Detection of Android Malicious Family Based on Manifest Information  
Yingmin Zhang  
Chao Feng  
Lianfen Huang  
Chaolin Ye  
Le Weng  
Xiamen Univ.  

WeB2.5  
Modeling Transition Matrix for a Collaborative Rating Prediction Recommendation System via Nonnegative Tensor Decomposition  
Zhehao Zhou  
Shenbao Yu  
Jiewen Guan  
Bilian Chen  
Langcai Cao  
Xiamen Univ.  

WeB2.6  
Multi-modal Laryngeal Data Acquisition and Processing System  
Jiacheng Xuan  
Hezhi Lin  
Xiamen Univ.
<table>
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<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeB2.7</td>
<td>Stacked Model with Autoencoder for Financial Time Series Prediction</td>
<td>Lianfen Huang (Xiamen Univ.)</td>
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<td>Haiying Zhang (Xiamen Univ.), Qiaomei Liang (Xiamen Univ.), Rongqi Wang (Xiamen Rural Commercial Bank), Qingqiang Wu (Xiamen Univ.)</td>
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<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeB2.8</td>
<td>Research on WeChat Mini Program APP Service of Academic Social Network Application</td>
<td>Haiying Zhang (Xiamen Univ. Library), Guangqin Zhang (Peking University), Jing Lin (Xiamen Univ. Library), Yankai Huang (Xiamen Univ.), Xiaoqing Lin (Fujian Normal Univ.)</td>
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<td>Jia Li (Xiamen Univ. Library), Guangqin Zhang (Peking University), Jing Lin (Xiamen Univ. Library), Yankai Huang (Xiamen Univ.), Xiaoqing Lin (Fujian Normal Univ.)</td>
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**WeC2**

**Educational Technology II**

<table>
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<th>Date</th>
<th>Time</th>
<th>Session</th>
<th>Title</th>
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<tbody>
<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.1</td>
<td>A Study on the Role of MOOCs in Computer Basic Teaching in Universities</td>
<td>Boqin Liu (Southwest Univ.), Hanrong Chen (Southwest Univ.)</td>
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<td>Yuan Jiugen (Jiangxi Sci. &amp; Tech. Normal Univ.), Fan Anqi (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.2</td>
<td>Application and Model of Virtual Reality in Physical Experiment</td>
<td>Yuan Jiugen (Jiangxi Sci. &amp; Tech. Normal Univ.), Fan Anqi (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<td>Li Jianhong (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<td>Boqin Liu (Southwest Univ.), Hanrong Chen (Southwest Univ.), Junmei (Southwest Univ.)</td>
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<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.3</td>
<td>Cloud Computing-based Big Data Mining Connotation and Solution</td>
<td>Yuan Jiugen (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<tr>
<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.4</td>
<td>Construction of Teaching System Based on Blackboard Teaching Platform</td>
<td>Li Jianhong (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<td>Li Jianhong (Jiangxi Sci. &amp; Tech. Normal Univ.), Wu Xinyue (Jiangxi Sci. &amp; Tech. Normal Univ.)</td>
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<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.5</td>
<td>Design and Implementation of University Continuing Education Informatization Platform Based on SaaS Model</td>
<td>Boqin Liu (Southwest Univ.), Hanrong Chen (Southwest Univ.), Junmei (Southwest Univ.)</td>
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<tr>
<td>2020-8-19</td>
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<td>WeC2.6</td>
<td>Design of Mobile Learning Platform Based on Android</td>
<td>Jiugen Yuan (Jiangxi Sci. &amp; Tech. Normal Univ.), Yang Jing (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<td>2020-8-19</td>
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<td>WeC2.7</td>
<td>Design Research of Physical Virtual Experiment Based on Virtual Reality Technology</td>
<td>Jiugen Yuan (Jiangxi Sci. &amp; Tech. Normal Univ.), Yang Jing (Jiangxi Sci. &amp; Tech. Normal Univ.), Xing Ruonan (Jiangxi Normal Univ.)</td>
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<td>2020-8-19</td>
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<td>WeC2.8</td>
<td>Discussion on Teaching Reform of Computer Education Major Based on Information Key Competency</td>
<td>Yan Liang (Tianjin Normal Univ.), Changhe Li (Tianjin Economic Technological Development Area No.1 Middle School)</td>
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<td>He Junmei (Southwest Univ.), Liu Boqin (Southwest Univ.)</td>
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<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.9</td>
<td>Reform and Practice of University Computer Basic Course Teaching Mode Based on Smart learning</td>
<td>He Junmei (Southwest Univ.), Liu Boqin (Southwest Univ.)</td>
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<td>2020-8-19</td>
<td>16:00 - 18:00</td>
<td>WeC2.10</td>
<td>Research and Practice of Pre-service Information Technology Teachers 2</td>
<td>Yan Liang (Tianjin Normal Univ.), Changhe Li (Tianjin Economic Technological Development Area No.1 Middle School)</td>
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### ThA1  e-Society/smart-Society/Industrial Design

**Chair:** Binyue Cui  
**Co-Chair:** Yongyi Zhang  
**Hebei Univ. of Economics & Business**  
**Guangdong Univ. of Finance & Economics**

2020-8-20 8:30 - 10:30  
**ThA1.1**  
Approach to Improving Training of Human Workers in Industrial Applications through the Use of Intelligence Augmentation and Human-in-the-Loop, pp. 283-288.  
Benedikt Maettig  
Hermann Foot  
Fraunhofer-Institute for Material Flow & Logistics IML

2020-8-20 8:30 - 10:30  
**ThA1.2**  
Xing Fan  
Xingjian Zheng  
Yongqi Ge  
Ningxia Univ.

2020-8-20 8:30 - 10:30  
**ThA1.3**  
Research on Application of Python Web Crawler Technology in DCEP and Legal Risk, pp. 293-299.  
Yongyi Zhang  
Guangdong Univ. of Finance & Economics

2020-8-20 8:30 - 10:30  
**ThA1.4**  
Simulation Analysis of Particle-CO2 Solid-Gas Two-Phase Flow Field Based on Precision Cleaning, pp. 300-305.  
Hong Zhao-bin  
Guo Ling-yu  
Chen Shui-xuan  
Qiuyi-hui  
Xiamen Univ. of Tech.

2020-8-20 8:30 - 10:30  
**ThA1.5**  
Li Qin  
Huazhong Agricultural University/Hubei Engineering Tech. Research Center of Agricultural Big

2020-8-20 8:30 - 10:30  
**ThA1.6**  
The 3D Projection Function on NetPad, pp. 312-316.  
Qixin Zhou  
Chuanzhong Li  
Ruiqi Cai  
Miaoxuan Li  
Chuanjun Zhang  
Hao Guan  
Guangzhou Univ.

2020-8-20 8:30 - 10:30  
**ThA1.7**  
Two-lane Multipoint Overtaking Decision Model Based on Vehicle Network, pp. 317-322.  
Simu Qin  
Xu Li  
Jianchun Wang  
Shandong Univ. of Sci. & Tech.

### ThB1  Computer Science II

**Chair:** Chunzhi Wang  
**Co-Chair:** Cen Gang  
**Hubei Univ. of Tech.**  
**Zhejiang Univ. of Sci. & Tech.**

2020-8-20 10:30 - 12:30  
**ThB1.1**  
Design of Children Education Auxiliary System Based on CNN, pp. 325-330.  
Shen Mengting  
Cen Gang  
Zhou Wen  
Zhu Runkai  
Liang Yaqin  
Zhejiang Univ. of Sci. & Tech.

2020-8-20 10:30 - 12:30  
**ThB1.2**  
Design of Contract Review System in Enterprise Legal Department Based on Natural Language Processing, pp. 331-335.  
Liang Yaqin  
Cen Gang  
Zhu Runkai  
Shen Mengting  
Zhejiang Univ. of Sci. & Tech.
2020-8-20 10:30 - 12:30
Zhu Runkai Zhejiang Univ. of Sci. & Tech.
Cen Gang Zhejiang Univ. of Sci. & Tech.
Ai Yining Zhejiang Univ. of Sci. & Tech.
Jiang Xingfei Zhejiang Univ. of Sci. & Tech.

2020-8-20 10:30 - 12:30
Design of Temporary Vehicle Parking Management System of Residential Area Based on Credit System, pp. 341-344.
Chunzi Wang Hubei Univ. of Tech.
Ruoxi Wang Wuhan Fiberhome Technical Services Co., Ltd
Zhiqun Su Wuhan Fiberhome Technical Services Co., Ltd

2020-8-20 10:30 - 12:30
Design of Video Cloud Networking Scheme in Expressway, pp. 345-348.
Chunzi Wang Hubei Univ. of Tech.
Ruoxi Wang Wuhan Fiberhome Technical Services Co., Ltd
Siwei Wei CCC Second Highway Consultants Co, Ltd
Yong Zeng Wuhan Fiberhome Technical Services Co., Ltd

2020-8-20 10:30 - 12:30
Garbage Classification System Based on AI and IoT, pp. 349-352.
Ding Zhaojie Zhejiang Univ. of Sci. & Tech.
Zhu Chenjie Zhejiang Univ. of Sci. & Tech.
Wang Jiajie Zhejiang Univ. of Sci. & Tech.
Qiu Yifan Zhejiang Univ. of Sci. & Tech.
Cen Gang Zhejiang Univ. of Sci. & Tech.

2020-8-20 10:30 - 12:30
Fengxiang Zhang Huazhong Univ. of Sci. & Tech.

2020-8-20 10:30 - 12:30
Short-Term Highway Traffic Flow Forecasting Based on XGBoost, pp. 359-362.
Jiawei Cao Zhejiang Univ. of Sci. & Tech.
Gang Cen Zhejiang Univ. of Sci. & Tech.
Yuefeng Cen Zhejiang Univ. of Sci. & Tech.
Weifeng Ma Zhejiang Univ. of Sci. & Tech.

ThC1
Educational Technology III
Oral Session

Chair: Haoxiang Lang Ontario Tech Univ.
Co-Chair: Huagang Zhou Nanning Univ.

2020-8-20 8:30 - 10:30
Zhao Changhua Huaibai Univ.
Mi Chunqiao Huaibai Univ.

2020-8-20 8:30 - 10:30
A Tangible-Augmented Concept Inventory to Identify Novices’ Misconceptions in Programming, pp. 370-374.
Henry Julie Univ. of Namur
Magis Tom Univ. of Namur
Clarinval Antoine Univ. of Namur
Vanderose Benoit Univ. of Namur
Dumas Bruno Univ. of Namur

2020-8-20 8:30 - 10:30
Xinyi Guo Chongqing College of Electronic Engineering
Xiaohui Xu Chongqing College of Electronic Engineering

2020-8-20 8:30 - 10:30
Cultivating Personal Capabilities Based on Problem-Based Learning: A Practice in Web Development, pp. 379-382.
Huagang Zhou Nanning Univ.
Jian Li Nanning Univ.
Jielin Zhong Nanning Univ.

2020-8-20 8:30 - 10:30
Zhang Li Nanjing Univ.
Zhang Jie Nanjing Univ.
Huang Daming Nanjing Univ.
2020-8-20 8:30 - 10:30  
**Exploration on Theoretical and Practical Projects of Software Architecture Course**, pp. 391-395.  
Liang Zhang  
Yanxu Li  
Ning Ge  
Beihang Univ.

2020-8-20 8:30 - 10:30  
Yujie Zhang  
Yuhao Dou  
Xiangwu Meng  
Yi'an Lai  
Yuhao Lu  
Xin Wang  
Beijing Univ. of Posts & Telecommunications

2020-8-20 8:30 - 10:30  
**How to Promote the Development of Youth Information Technology Education in China through Programming Ability for Adolescents Standard**, pp. 401-405.  
Jin Ying  
Zhang Jie  
Tao Ye  
Zhang Li  
Nanjing Univ.

2020-8-20 8:30 - 10:30  
Yuelei Yang  
Haoxiang Lang  
Ontario Tech Univ.

2020-8-20 10:30 - 12:30  
**A Spark-based Distributed Dragonfly Algorithm for Feature Selection**, pp. 419-423.  
Hongwei Chen  
Dongqiang Liu  
Lin Han  
Shuyu Yao  
Congyuan Jin  
Xiang Hu  
Wuhan Fiberhome Technical Services Co., Ltd/Fiberhome Telecommunication Technologies Co., Ltd

2020-8-20 10:30 - 12:30  
**An Improved Salp Swarm Algorithm Based on Spark for Feature Selection**, pp. 424-429.  
Hongwei Chen  
Fangrui Liu  
Pengyang Chang  
Shuyu Yao  
Fei Huang  
Jiwei Hu  
Wuhan Fiberhome Technical Services Co., Ltd/Fiberhome Telecommunication Technologies Co., Ltd

2020-8-20 10:30 - 12:30  
Juntao Fan  
Lin Zhi  
Jiangxi Sci. & Tech. Normal Univ.

2020-8-20 10:30 - 12:30  
**Fast Parallel Extraction Method of Normalized Vegetation Index**, pp. 433-437.  
Xianyu Zuo  
Tongyuan Qi  
Baojun Qiao  
Zhita Deng  
Qiang Ge  
Henan Univ.
Wen Qiu
Univ. of Chinese Academy of Sciences
Jing Du
Tsinghua Univ.
Fei Li
Tsinghua Univ.

2020-8-20 10:30 - 12:30
Juntao Fan
Jiangxi Sci. & Tech. Normal Univ.
Lin Zhi
Jiangxi Sci. & Tech. Normal Univ.

2020-8-20 10:30 - 12:30
Jie Wang
Guangzhou Univ.
Linjing Zhang
Fuzhou Administration Inst.
Chuanzhong Li
Guangzhou Univ.
Ruqi Cai
Guangzhou Univ.
Wanwei Chen
Guangzhou Univ.
Yongsheng Rao
Guangzhou Univ.

2020-8-20 10:30 - 12:30
Li-ping Yang
Huaazhong Agricultural University/Hubei Engineering Tech.
Fang Zheng
Huaazhong Agricultural University/Hubei Engineering Tech.
Li Qin
Huaazhong Agricultural University/Hubei Engineering Tech.

2020-8-20 10:30 - 12:30
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Zitian Wang
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Hubei Univ. of Tech.
Aijun Liu
Hubei Univ. of Tech.
Xiang Hu
Wuhan Fiberhome Technical ServicesCo.,Ltd/Fiberhome Telecommunication Technologies Co.,Ltd

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Computer Science III

Chair: Sena Seneviratne
Sydney Univ.
Co-Chair: Luona Song
Beijing Univ. of Posts & Telecommunications

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Luona Song
Beijing Univ. of Posts & Telecommunications
Xin Guo
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Yiqi Fan
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Hubei Univ. of Tech.
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Dahai Xia
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Huazhong Univ. of Sci. & Tech.
Wei Liu
Huazhong Univ. of Sci. & Tech.
Xinyu Li
Huazhong Univ. of Sci. & Tech.
Weiwei Wang
Huazhong Univ. of Sci. & Tech.
Wenqing Cheng
Huazhong Univ. of Sci. & Tech.

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M. Irtaza Nawaz Tarar
National Univ. of Sciences & Technology, Islamabad, Pakistan
Faizan Ahmed
National Univ. of Sciences & Technology, Islamabad, Pakistan
Wasi Haider Butt
National Univ. of Sciences & Technology, Islamabad, Pakistan

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Tsinghua Univ.

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Huiju Zhou, Nanguan Middle School Zunyi City, Guizhou
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Jiming Chen, Zhejiang University/Alibaba-Zhejiang Univ. Joint Research Inst. of Frontier Technologies
Shibo He, Zhejiang University/Alibaba-Zhejiang Univ. Joint Research Inst. of Frontier Technologies

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Zhe YU, Changshu Inst. of Technology/Harbin branch of United Network Telecommunications Corporation
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Jin-sen ZHAI, Changshu Inst. of Technology/Harbin branch of United Network Telecommunications Corporation
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Bo Li, Huazhong Agricultural University/Hubei Engineering Tech. Research Center of Agricultural Big
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**Chair:** Jana Jost  
**Co-Chair:** Hao Wang  
**Fraunhofer Inst. for Material Flow & Logistics**  
**Hospitality Inst. of Sanya**

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Benedikt Mättig  
Tobias Schneider  
Fraunhofer Inst. for Material Flow & Logistics  
Fraunhofer IML  
TU Dortmund

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Qiao Xiaoming  
Yang Hemeng  
Zhou Zhubo  
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Tianjin Zhongwei Aerospace Data System Tech. Co.Ltd  
Tianjin Zhongwei Aerospace Data System Tech. Co.Ltd

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Jin Ying  
Tao Ye  
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Yanqing Peng  
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Junyan Jiang  
Jun Qin  
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Shengxi Liang  
Yanyan Song  
Ping Zong  
Nanjing Univ. of Posts & Telecommunications  
Nanjing Univ. of Posts & Telecommunications  
Communication Univ. of China  
Nanjing Univ. of Posts & Telecommunications

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**Zhejiang Univ.**

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Wuhan Fiberhome Technical Services Co., Ltd/Fiberhome Telecommunication Technologies Co., Ltd,
Zhong Zong  JSTI Group

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Linguo Yan  Hubei Univ. of Tech.
Chunzhi Wang  Hubei Univ. of Tech.
Min Li  Hubei Univ. of Tech.
Huiling Xia  Hubei Univ. of Tech.

Jinli Yan  National Univ. of Defense Tech.
Chunbo Jia  National Univ. of Defense Tech.
Lu Tang  National Univ. of Defense Tech.
Tao Li  National Univ. of Defense Tech.
Gaofeng Lv  National Univ. of Defense Tech.
Wei Quan  National Univ. of Defense Tech.

Jinli Yan  National Univ. of Defense Tech.
Lu Tang  National Univ. of Defense Tech.
Tao Li  National Univ. of Defense Tech.
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Co-Chair: Weina Cheng  Central China Normal Univ.
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Zhengzhou Univ.  
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Nanjing Normal Univ.  
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