## 2010 5th International Conference on Computer Science and Education

## (ICCSE 2010)

Hefei, China<br>24-27 August 2010

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|  | uabin Anhui Univ. |
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Jing Wang
Hebei Polytechnic Univ.

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| Jingyuan Yin | Shanghai Univ. |
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Wang Ya-xiang China North Industries Group Corporation
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Li Xuelin China Academy of Space Tech.

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Liang Xiong Central South Univ.
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Central South Univ.
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Central South Univ.
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Zhan Xisheng Univ.
Hubei Normal Univ.
Huazhong Univ. of Sci. \& Tech.


| Qingcheng Li <br> Zhenhua Dong | Nankai Univ. <br> Nankai Univ. |
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Maojun Huang Jiangxi Univ. of Finance \& Economics Jiali Xia Jiangxi Univ. of Finance \& Economics Bizhou Xiong Jiangxi Univ. of Finance \& Economics Xifa Liu Jiangxi Univ. of Finance \& Economics

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$\begin{array}{ll}\text { Wang Rui } & \text { Beijing Univ. of Aeronautics \& Astronautics } \\ \text { Zhao Yan } & \text { Beijing Univ. of Aeronautics \& Astronautics } \\ \text { Zhang Chunxi } & \text { Beijing Univ. of Aeronautics \& Astronautics } \\ \text { Zhao Huijie } & \text { Beijing Univ. of Aeronautics \& Astronautics } \\ \text { Zhang Guangjun } & \text { Beijing Univ. of Aeronautics \& Astronautics }\end{array}$
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Xia Hou
Hong-bo Yang
Jian-bin Liu Beijing Info. Sci. \& Tech. Univ. Beijing Info. Sci. \& Tech. Univ. Beijing Info. Sci. \& Tech. Univ.

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Qingyun Long
Shanghai Business School
Qiaoduo Hu
Shanghai Business School

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Qiong Li Zhejiang Gongshang Univ.
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Yiming Xiang Zhejiang Gongshang Univ.

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| Chair: Cai Ying | Beijing Info. Sci. \& Tech. |
| Co-Chair: Yingnan Zhao | Naniing Univ of Info. Sci \& Tech |

Co-Chair: Yingnan Zhao Nanjing Univ. of Info. Sci. \& Tech.

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Wei Wei Norwegian Univ. of Sci. \& Tech.
Irwin King The Chinese Univ. of Hong Kong
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Yingnan Zhao Nanjing Univ. of Info. Sci. \& Tech.; Jishou Univ. Fanbin Meng Jishou Univ.

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| Cen Gang | Zhejiang Univ. of Sci. \& Tech. |

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| Yunfeng Mo | Zhejiang Univ. of Sci. \& Tech. |
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| Lei Yunfa | Zhejiang Univ. of Sci. \& Tech. |
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| Meng Dong | Zhejiang Univ. of Sci. \& Tech. |
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Cen Gang
Zhejiang Univ. of Sci. \& Tech. Zhejiang Univ. of Sci. \& Tech.

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| Chunying Zhang | Hebei Polytechnic Univ. |
| Jing Wang | Hebei Polytechnic Univ. |


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| Yuliang Lu | Electronic Engineering Inst. Hefei |
| Jinhong Liu | Electronic Engineering Inst. Hefei |

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Cui Jie Univ. of Sci. \& Tech. of China;
Anhui Univ.
Huang Liusheng Univ. of Sci. \& Tech. of China
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Yang Wei Univ. of Sci. \& Tech. of China
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| Chunhua He | Henan Agricultural Univ. |
| Bingjun Li | Henan Agricultural Univ. |
| Xiaomei Zhang | Henan Agricultural Univ. |
| Zhanguo Li | Henan Agricultural Univ. |

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## Poster Presentation Sessions

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| Chair: Liu Yalu | Beijing Inst. of Petrochemical Tech. |
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Dong Huailin Xiamen Univ.
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Yalu Liu Beijing Inst. of Petrochemical Tech.
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| Ji-ping Zeng | Chongqing Three Gorges Univ. |
| Jiang Xiong | Chongqing Three Gorges Univ. |
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| Hunan Inst. of Engineering |  |


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| Qu Shilin | Univ. of Sci. \& Tech. Beijing |
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| Peili Sun | Dalian Ocean Univ. |
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| Linkai Luo | Xiamen Univ. |
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| Weihang Lv | Xiamen Univ. |
| Renshuo Zhang | Guangzhou Univ. |


Li Zhiping
Xu Tianwei
Sun Yu

Yunnan Normal Univ. Yunnan Normal Univ. Yunnan Normal Univ.

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| Co-Chair: Ou Qizhong | Guangxi Teachers Education Univ. |


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Tong Biao Liaoning Provincial College of Communication
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Miao Wang Zhongyuan Univ. of Tech.
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Zhang Hongwei Henan Polytechnic Univ.
Wang Xinhuan Henan Polytechnic Univ.
Hou Fei Henan Polytechnic Univ.
Wang Xin Henan Polytechnic Univ.
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| Wang Xinhuan | Henan Polytechnic Univ. |
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Huang Wei Hubei Univ. of Tech.; Wuhan Univ.
Chen Xin Guangdong Univ. of Foreign Studies
Han Ying
Wuhan Univ.
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Longshu Li
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| Wu Jie | Hohai Univ. |

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Liu Chengxia Beijing Info. \& Tech. Univ.
Cai Ying Beijing Info. \& Tech. Univ.
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Wang Tiefeng Beijing Info. \& Tech. Univ.
Beijing Info. \& Tech. Univ.


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| Ge Yu | Hangzhou Normal Univ. |
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Business College of Beijing Union Univ.

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| Huang Jun | China Jiliang Univ. |  |

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Zhou Wei
Liu Bao-bing $\quad$ Zhejiang Univ.

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| Yuan Guo-wu | Yunnan Univ. |
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| Xu Dan | Yunnan Univ. |
| Zhao Yang | Yunnan Univ. |

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Yang Ping Guizhou Univ.

Chen Qisong Guizhou Univ.
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| Xiaowu Zhu | China Univ. of Political Sci. \& Law |
| :--- | ---: |
| Yan Yan | Chinese Academy of Sciences |
| Xuanzhong Sun | China Univ. of Political Sci. \& Law |


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| Ming Yang | Nanjing Normal Univ. |
| Nai-song Jiang | Nanjing Normal Univ. |
| Wei-ling Cai | Nanjing Normal Univ. |

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attern, pp. 675-677.

| Zhang Qiang | Hebei Univ. of Engineering |
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| Cui Dong | Hebei Univ. of Engineering |
| Wu Yunlong | Wuhan Univ. |

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$\begin{array}{ll}\text { Zhu Wen-qiang } & \text { Jiangxi Univ. of Finance \& Economics } \\ \text { Wan Ben-ting } & \text { Jiangxi Univ. of Finance \& Economics }\end{array}$
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Shuxin Guo Jilin Univ. of Finance \& Economics
Yunge Mao Jilin Univ. of Finance \& Economics
Ming Li Jilin Univ. of Finance \& Economics
Chijun Zhang Jilin Univ. of Finance \& Economics
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Fachang Wang
Henan Inst. of Sci. \& Tech.
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| Huang Yi-ran | Guangxi Univ. |
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| Zhong Cheng | Guangxi Univ. |
| Yang Feng | Guangxi Univ. |
| Ying Meng-xiao | Guangxi Univ. |

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| Lv Jiake | Southwest Univ. |
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| Zhou Wei | Southwest Univ. |
| Wang Xuan | Southwest Univ. |


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| Jie Anquan Jiangxi Normal Univ. |  |
| Li Yuqing Jiangxi Normal Univ. |  |
| Chen Bailiang Jiangxi Normal Univ. |  |
| Ye Jihua Jiangxi Normal Univ. |  |
| Jie Zou |  |
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| Shi Lei Bohai Univ. |  |
| 16:10-17:40 ThP2.31 |  |
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| Chunting Yang Zhejiang Univ. of Sci. \& Tech. |  |
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| Research on the Construction of Undergraduate Teaching Resources Informatization Platform in Local Normal Universities and Colleges, pp. 712-715. |  |
|  |  |
| Ou Qizhong Guangxi Teachers Education Univ. |  |
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| Computer Education VI |  |
| Chair: Yingnan Zhao Nanjing Univ. of Info. Sci. \& Tech. <br> Co-Chair: Tao Jili Ningbo Inst. of Tech. |  |
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| Peng Bian | Beijing Inst. of Tech. |
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| Yi Jin | Beijing Jiaotong Univ. |
| Nairen Zhang | Beijing Inst. of Tech. |

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Gao Qun
Shandong Inst. of Business \& Tech.
Zang Yan
Taua-ye

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Rangding Wang
Ying Zhu

Ningbo Univ.
Ying Zhu
Jiangbo Qian
Ningbo Univ.
Shoudong Shi
Ningbo Univ.

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Le Na Beijing Union Univ.

Hu Danping North China Research Inst. of Electro-optics

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| Ji-li Tao | Zhejiang Univ. |
| Zhuo-yuan Wang | Zhejiang Univ. |
| Xiao-ming Chen | Zhejiang Univ. |
| Yin Cao | Zhejiang Univ. |
| Sheng-huai Xu | Zhejiang Univ. |

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| Chao Yi | Yunnan Univ. |
| :--- | ---: |
| Hongzhi Liao | Yunnan Univ. |
| Wei Zhou | Yunnan Univ. |
| Tony Chen | Yunnan Univ. |
| Jie Qin | Kunming Military College |
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Zhou Zhimin Zhejiang Water Conservancy \& Hydropoeer College
Guan Xiaohui Zhejiang Water Conservancy \& Hydropoeer College

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| Xiaofeng Pan | Shandong Univ. |
| :--- | :--- |
| Xueqing Li | Shandong Univ. |
| Huiyun Bao | Shandong Univ. |
| Xiaomin Zhang | Shandong Univ. |

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Wang Xiang-zheng
Anyang Normal Univ.

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| Jiecai Zheng | Shandong Univ. |
| :--- | :--- |
| Xueqing Li | Shandong Univ. |
| Xinxiao Zhao | Shandong Univ. |
| Xiaomin Zhang | Shandong Univ. |
| Sheng Hu | Yunnan Univ. |

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$\begin{array}{ll}\text { Qi Yang } & \text { Capital Normal Univ. } \\ \text { Zhang Dongwei } & \text { Capital Normal Univ }\end{array}$
Zhang Dongwe
Capital Normal Univ.
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Youmei Wang Wenzhou Univ.
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Xiuyou Wang
Fuyang Normal College
Hao Wang
Xuehui Bi
Jianzhong Fan
Fuyang Normal College
Fuyang Normal College
Fuyang Normal College
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| Chen Li-qing | Huaiyin Inst. of Tech. |
| :--- | :--- |
| Yan Yun-yang | Huaiyin Inst. of Tech. |

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| Zhang Qiang | Hebei Univ. of Engineering |
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| Cui Dong | Hebei Univ. of Engineering |
| Wu Yunlong | Wuhan Univ. |

Wu Yunlong
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Hejie Chen Beijing Inst. of Graphic Communication
Biyue Qin Beijing Inst. of Graphic Communication
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Gan Xiaoya Wuhan Univ. of Sci. \& Tech.
Liu Kan Zhongnan Univ. of Economics \& Law
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| Ming Yang | Nanjing Normal Univ. |
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| Hui-dong Liu | Nanjing Normal Univ. |

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| Xiao-qi He | Zhejiang Univ. |
| :--- | :--- |
| Yi-gang Wang | Zhejiang Univ. |
| Zhuo-yuan Wang | Zhejiang Univ. |
| Sheng-li Fan | Zhejiang Univ. |
| Jia-lin Cui | Zhejiang Univ. |

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Yang Liu Zhejiang Univ. of Sci. \& Tech.
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Shenglong Tan
Hubei Univ. of Economics
Lihong Chen Huazhong Univ. of Sci. \& Tech.

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| Li Xizuo | Dalian Nationalities Univ. |
| :--- | :--- |
| Wang Lingfen | Dalian Nationalities Univ. |
| Song Haiyu | Dalian Nationalities Univ. |


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| :---: | :---: |
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| Yuxia Tong | Hebei Polytechnic Univ. |
| Hong Liu | Hebei Univ. |
| Jiantao Gu | Hebei Polytechnic Univ. |
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| Jiantao Gu | Hebei Polytechnic Univ. |
| Ji Zhao | Hebei Polytechnic Univ. |
| Shufen Zhang | Hebei Polytechnic Univ. |

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| Jiantao Gu | Hebei Polytechnic Univ. |
| :--- | :--- |
| Jinghong Fu | Hebei Polytechnic Univ. |
| Yuxia Tong | Hebei Polytechnic Univ. |

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Kewei Jiang Ningbo Inst. of Tech., Zhejiang Univ.
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| Zhang Changzheng | Xi'an Univ. of Tech. |
| :--- | ---: |
| Gan Kai | Xi'an Univ. of Tech. |
| Cao Yuping | Xi'an Jiaotong Univ. |

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| Xiaoyu Zhang | Tibet Inst. for Nationalities |
| :--- | :--- |
| Li Xu | Tibet Inst. for Nationalities |
| Lei He | Tibet Inst. for Nationalities |

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Han Xu
Cao Yongcun
Minzu Univ. of China
Cao Yongcun Minzu Univ. of China

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| Wei Zhou | Northeastern Univ. |
| :--- | :--- |
| Jian-chang Liu | Northeastern Univ. |
| Shou-ping Guan | Northeastern Univ. |


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| :--- | :---: |
| Chair: Cen Gang | Zhejiang Univ. of Sci. \& Tech. <br> Jiangyin Polytechnic College |

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Yinhui Yang ZheJiang Business Tech. Inst.
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| Song Xiehai <br> Song Wei | Jiangyin Polytechnic College <br> Zhejiang Univ. of Sci. \& Tech. |
| :--- | ---: |
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| Wang Xiaochi |  |
| Zhejiang Univ. of Sci. \& Tech.; |  |
| Zhejiang Univ. City College |  |
| Zhejiang Univ. City College |  |

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| Cen Gang | Zhejiang Univ. of Sci. \& Tech. |
| :--- | :--- |
| Luo Junyan | Zhejiang Univ. of Sci. \& Tech. |
| Zhang Shaolin | Zhejiang Univ. of Sci. \& Tech. |

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Cen Yingying Zhejiang Univ. of Sci. \& Tech.

Zhu Jianhua Zhejiang Univ. of Sci. \& Tech.
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Kong Ying Zhejiang Univ. of Sci. \& Tech.
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Peng Hehuan Tianmu College Zhejiang Agriculture \& Forestry Univ.
Cheng Yunhang Tianmu College Zhejiang Agriculture \& Forestry Univ.
Li Wenli
Tianmu College Zhejiang Agriculture \& Forestry Univ.

| ThP5 | AHU Theater Area 5 |
| :--- | ---: |
| Web Application |  |
| Chair: Zhang Yihua | Jimei Univ. |
| Co-Chair: Jihua Ye | Jiangxi Normal Univ. |

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| Chengpeng Wu | Xiamen Univ. |
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| Junfeng Yao | Xiamen Univ. |
| Xiaobiao Xie | Xiamen Univ. |
| Chao Lin | Xiamen Univ. |

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| Jihua Ye | Jiangxi Normal Univ. <br> Jianlian Li <br> Jiangxi Normal Univ. <br> Anquan Jie <br> Siwen Luo$\quad$ Jiangxi Normal Univ. |
| :--- | ---: |
| Jiangxi Univ. of Finance \& Economics |  |

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Zhao Jiantao North China Electric Power Univ.
Lan Fang
North China Electric Power Univ.

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| Li Weiheng | Xiamen Univ. |
| Ding Meiyan | Xiamen Univ. |

Li Weiheng on Theory and Execution of SaaS, pp. 888-890.
Ding Meiyan Xiamen Univ.

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Bo Yu Swan College of Central South
Duluo Li Swan College of Central South Univ. of Forestry \& Tech.

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Wu Xing-su
ShangRao Normal Univ.
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Kehe Wu
Zhibin Zhang
Xiaohui Wang
North China Electric Power Univ. North China Electric Power Univ. North China Electric Power Univ.

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$\begin{array}{lr}\text { Lu Li } & \text { Suzhou Vocational Univ. } \\ \text { Guangquan Zhang } & \text { Soochow Univ.; Chinese Academy of Sci. }\end{array}$
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Jin Chen Xiamen City Univ.
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| Rui Liu | Beihang Univ. |
| :--- | :--- |
| Rui Xiong | Beihang Univ. |
| Lang Song | Beihang Univ. |

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Hu Jianpeng Shanghai Univ. of Engineering Sci.
Zhang Xiaomei Shanghai Univ. of Engineering Sci.

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| Chair: Chunzhi Wang | Hubei Univ. of Tech. |
| Co-Chair: Jian Zhou | Anhui Univ. |
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| Lei You | Tianjin Univ. |
| Chungui Liu | Tianjin Univ. |
| Sen Tong | Tianjin Univ. |

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| Zhou Li | Suzhou Vocational Univ. |
| :--- | :--- |
| Tan Fang-yong | Suzhou Vocational Univ. |
| Gao Xiao-hui | Suzhou Vocational Univ. |



| Protocol, pp. 949-951. |  |
| :--- | ---: |
| Weibo Liu | XidianUniv. |
| Wenping Ma | XidianUniv. |
| Yuanyuan Yang | XidianUniv. |
| Haolei Qin | XidianUniv. |
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| Shi Cheng | Wuhan Univ. |
| Chanle Wu | Wuhan Univ. |
| Jun Yue | Wuhan Univ. |
| Gang Ye | Wuhan Univ. |
| Lian He | Wuhan Univ. |

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| Chen Wei | Xiamen Univ. |
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| Fan Zhentao | Xiamen Univ. |



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Xixian Niu hebei Univ. of Sci. \& Tech.
Yong Gu shijiazhuang Inst. of railway Tech.
Hongbin Gao hebei Univ. of Sci. \& Tech.
Li You
hebei banking school
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Wentao Sui Shandong Univ. of Tech.

Dan Zhang Shandong Univ. of Tech.
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| Wu Chen-wen | Lanzhou Jiaotong Univ. |
| :--- | :--- |
| Wang Wei | Lanzhou Jiaotong Univ. |
| Yan Yi-lang | Lanzhou Jiaotong Univ. |
| Wang Ping | Lanzhou Jiaotong Univ. |

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Feng Tian Xi'an Univ. of Sci. \& Tech.
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Gui-fang Zhang Kunming Univ. of Sci. \& Tech. Yong Chen Iron \& Steel Research Inst.

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Yujian Jiang Communication Univ. of China
Wei Jiang Communication Univ. of China
Hui Ren
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Communication Univ. of China

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Henan Polytechnic Univ.
Yanfeng Qu
Henan Polytechnic Univ.

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| $\quad$ Aizhong Mi |  |
| Henan Polytechnic Univ.  <br> Linpeng Hai Henan Polytechnic Univ. |  |


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| :--- | ---: |
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| Wang Jian-qiang | Lanzhou Jiaotong Univ. |
| Wu Chen-wen | Lanzhou Jiaotong Univ. |

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| Wang Chunzhi | Hubei Univ. of Tech. |
| :--- | :--- |
| Jiang Wei | Hubei Univ. of Tech. |
| Chen Hong | Hubei Univ. of Tech. |
| Wei Luo | Hubei Univ. of Tech. |
| Hong Fang | Hubei Univ. of Tech. |
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Agricultural Machinery, pp. 1014-1017. Shandong Univ. of Tech.
Xiaoming Sun Bin Qi Shandong Univ. of Tech.; Northwestern Polytechnical Univ.
Xiude Zhang
Shandong Univ. of Tech.
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| Zhen Li | Hebei Univ. |
| :--- | :--- |
| Junfeng Tian | Hebei Univ. |

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Guo Lianzhi
Zhanzhou Normal Univ.
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| Jian Zhou | Anhui Univ. |
| :--- | :--- |
| Liang Tao | Anhui Univ. |



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$$
\begin{array}{lr}
\text { Li Yun } & \text { Beijing Univ. of Posts \& Telecommunications } \\
\text { Li Xiang-sheng } & \text { Shanxi Medical Univ. }
\end{array}
$$

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| Dachao Hu | Shanghai Inst. of Tech. |
| :--- | ---: |
| Dingping Ye | Chinese Academy of Sciences |

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Huang Minghe
Jiangxi Normal Univ.
Zhong Cuixiang Jiangxi Normal Univ.
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Shi Yun-song Nanjing Forestry Univ.
Shi Yu-feng Nanjing Forestry Univ.

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Huang Guobin Xuzhou Inst. of Architectural Tech.
Lin Lesheng Xuzhou Inst. of Architectural Tech.
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| Qi Wang | Wenzhou Univ. |
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| Xiaodan Wang | Southwest Univ. |

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| Yi Hu | Nanjing Univ. |
| :--- | :--- |
| Jingxiang Zhang | Nanjing Univ. |
| Yanhua Chen | Nanjing Univ. |

ThP7.12
16:10-17:40 Univ. Nanjing Univ.

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Liu Zhao-bin Jiangsu Province Support Software Engineering RandD Center for Modern Info. Tech. Application in Enterprise
Liu Wen-zhi Jiangsu Province Support Software Engineering RandD Center for Modern Info. Tech. Application in Enterprise
Gu Jun-zhong East China Normal Univ.

16:10-17:40
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Yongguang Chen Wuhan Textile Univ.
Bing Hu Wuhan Textile Univ.

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Zhejiang Inst. of Mechanical \& Electrical Engineering
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| Limin Jia | Beijing Jiaotong Univ. |
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| Xuelei Meng | Beijing Jiaotong Univ. |
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Guilin Univ. of Tech.; Xidian Univ. Zhou De-jian Guangxi Univ. of Tech.; Guilin Univ. of Tech. Liu Yao-ming

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| Song Bingxue <br> Xie Yushu | Univ. of Sci. \& Tech. Beijing <br> Univ. of Sci. \& Tech. Beijing |
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| Zeng Yao | Beijing Municipal Inst. of Labour Protection |
| Wang Peiyi | Beijing Municipal Inst. of Labour Protection |
| Wang Tong | Beijing Municipal Inst. of Labour Protection |

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| Ruliang Wang | Guangxi Teachers' Univ. |


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| Chair: Cai Changqing | Changchun In | t. of Tech. |
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| Jun Hu | Beihang Univ. |

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| Weidong Jin | Southwest Jiaotong Univ. |

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Li Bing Hunan Univ.
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Nan Zhihong
Business College of Shanxi Univ. Shanxi Univ. of Finance \& Economics

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Hebei Polytechnic Univ.
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| Yuanhui Yu | Jimei Univ. |
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| Zhuo Zhang | ChangChun Inst. of Tech. |
| Gao Wang | Ahui Heli CO.,LTD |
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| A. Govardhan | Principal JNTUH College of Engineering |
| A. Ramamohanr | S.V.Univ. |

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| Wang Yijun | Zhejiang Univ. of Sci. \& Tech.; |
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|  | Urban Systems Engineering |
| Li Zhongwei | NanKai Univ. |
| Zhou Xiaomeng | NanKai Univ. |
| Liu Kehui | Beijing Research Center of |
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Xuelian Hu

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| Co-Chair: Yang Yong | Northeast Petroleum Univ. |

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Xiaobiao Xie
Lida Lin
Qingda Zhou

Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Univ.
Xiamen Univ,
Xiamen Univ.

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| Hanxiao Shi | Zhejiang Gongshang Univ. |
| Mengli Li | Zhejiang Gongshang Univ. |
| Mengxia Cai | Zhejiang Gongshang Univ. |
| Peiqi Feng | Zhejiang Gongshang Univ. |

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$\begin{array}{ll}\text { Junjie Hu } & \text { Chinese Academy of Sciences } \\ \text { Xin Cheng } & \text { Chinese Academy of Sciences } \\ \text { Weiming Xiong } & \text { Chinese Academy of Sciences }\end{array}$
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Chinese Academy of Sciences

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Xiamen Univ.

Adaptive Resampling in Particle Filter Based on Diversity Measures, pp. 1474-1478.

Jin-xia Yu
Henan Polytechnic Univ.;

Yong-li Tang $\quad$ Henan Polytechnic Univ.

## Tsinghua Univ.

16:10-17:40
ThP10.10
Color Image Retrieval Using Edge-spatial Feature, pp. 1479-1482.
Zhao Shan
Henan Polytechnic Univ.
Gao Guo-hong
Henan Inst. of Sci. \& Tech.
Zhao Qian
JiYuan Electric Power Company
16:10-17:40 ThP10.11

A Novel Image Retrieval Based on Texture Primitive, pp. 1483-1485.

Liu Jing Henan Polytechnic Univ.
Zhao Shan Henan Polytechnic Univ.
16:10-17:40 ThP10.12
Research and Realization on a Modeling Tool of Field, pp. 1486-1489.

Wang Haitao Henan Polytechnic Univ. Jia BaoXian Henan Polytechnic Univ.

16:10-17:40
ThP10.13
Modified Mission-driven Based Teaching Reform of Electronic Commerce Quality Education, pp. 1490-1492.

Jun Mao Henan Polytechnic Univ.
16:10-17:40
ThP10.14
Design and Realization of Distributed Nodes in a Multilevel P2F
Content Delivery Network, pp. 1493-1498.

| Wang Song | Univ. of Sci. \& Tech. of China |
| :--- | :--- |
| Ling Qing | Univ. of Sci. \& Tech. of China |
| Wu Gang | Univ. of Sci. \& Tech. of China |
| Zheng Quan | Univ. of Sci. \& Tech. of China |

16:10-17:40 ThP10.15
An Adaptive Selection Algorithm of Macroblock Coding Candidate Modes, pp. 1499-1502.

| Ruan Ruolin <br> Hu Ruimin | Xianning Univ.; Wuhan Univ. |
| :--- | ---: |
| Chen Hao | Xianning Univ. |
| Xianning Univ. |  |

16:10-17:40
ThP10.17
An Extension to Contract Net Protocol for Military Agents Interactions, pp. 1506-1511.

| Xiong Li | Academy of Armored Force Engineering |
| :--- | :--- |
| Sheng Dang | Academy of Armored Force Engineering |
| Na Hao | Academy of Armored Force Engineering |

Na Hao Academy of Armored Force Engineering
Kunju Li Academy of Armored Force Engineering

| ThP11 | AHU Theater Area 11 |
| :--- | ---: |
| Computer Education VII | Beijing Union Univ. |
| Chair: Peng Tao | Univ. of Sarajevo |

16:10-17:40 ThP11.1
Research of "Visual Basic Programming" Project-Driven Teaching Model, pp. 1512-1514.

Chunying Zhang Hebei Polytechnic Univ.
Fengchun Liu Hebei Polytechnic Univ.
Li Liu Hebei Polytechnic Univ.
16:10-17:40
ThP11.2
The Study of"Urgent need knowledge fist, practice guidance, inductive learning"Model, pp. 1515-1519.

| Fengchun Liu | Hebei Polytechnic Univ. |
| :--- | :--- |
| Chunying Zhang | Hebei Polytechnic Univ. |
| Li Liu | Hebei Polytechnic Univ. |


| 16:10-17:40 | ThP11.3 |
| :--- | ---: |
| Design and Implementation for the Examination | System of |
| Multimedia Course Practice, pp. 1520-1523. |  |
| Zhao Haiyan | Tianjin Univ. |
| Zhang Gang | Tianjin Univ. |

16:10-17:40
ThP11.4
The Implementation of Automatic Scoring of computer operation of Visual Basic based on Windows Message Mechanism, pp. 1524-1526.

Li Fuyun Hainan Normal Univ. Jiang Wenjuan Hainan Normal Univ.

16:10-17:40 ThP11.5
Teaching Reform on Information Theory and Coding, pp.
1527-1530.
Na Wang Zhengzhou Inst. of Aeronautical Industry
Shenyi Qian Zhengzhou Inst. of Aeronautical Industry
Baowei Zhang Zhengzhou Inst. of Aeronautical Industry
16:10-17:40 ThP11.6
A novel computer-technology-based practical teaching for students of E-Commerce specialty, pp. 1531-1534.

Hanxiao Shi Zhejiang Gongshang Univ.
16:10-17:40
ThP11.7
Application idea for TRIZ theory in innovation education, pp.
1535-1540.
Jiang Fan Guangzhou Univ.

| 16:10-17:40 |  |
| :--- | :--- |
| Research and Practice on Issue-Driven | ThP11.8 |
| 1541-1546. |  |
| Shan Lin | Hubei Univ. of Tech. |
| Han Wang | Hubei Univ. of Tech. |
| Yanzhong Hu | Hubei Univ. of Tech. |

Gaoxing Zhao
VIA Telecomm
16:10-17:40
ThP11.16
Research On External Drive Mechanism Of Networked Learning Community, pp. 1578-1580.

Dai Li-ping Jiangxi Normal Univ.
Duan Wei Jiangxi Sci. \& Tech. Normal Univ.
16:10-17:40 ThP11.17
Determining the sustainability of virtual learning communities in
E-learning platform, pp. 1581-1586.
Hongfeng Lai
National United Univ.
16:10-17:40
ThP11.18
Research on Organizing Method of Collaborative Knowledge
Building in a Computer-Supported Language Classroom, pp. 1587-1591.

Yinjian Jiang Guangdong Polytechnic Normal Univ.
16:10-17:40 ThP11.19
Corpus-Based Teaching in Writing Class of English Majors, pp. 1592-1595.

Li Jing Hebei Univ. of Engineering Du Fengqiu Hebei Univ. of Engineering

16:10-17:40 ThP11.20
Career-oriented Information Service Talents Cultivation Mode, pp. 1596-1598.

| Lianying Sun | Beijing Union Univ. |
| :--- | :--- |
| Tao Peng | Beijing Union Univ. |
| Hong Bao | Beijing Union Univ. |

16:10-17:40 ThP11.21
Teaching Reform and Innovation of the Course - Digital Image
Processing Experiments, pp. 1599-1600.

| Haifeng Zhao | Anhui Univ. |
| :--- | :--- |
| Jin Tang | Anhui Univ. |
| Bin Luo | Anhui Univ. |

16:10-17:40 ThP11.22
Web-based Virtual Laboratory for Mechanical Engineering, pp.
1601-1604.
Yu Hou Wuhan Univ. of Sci. \& Tech.
Fang Wang Wuhan Univ. of Sci. \& Tech.
16:10-17:40 ThP11.23
Research on the Problem Space and Curriculum System ot
Discipline "Information Service", pp. 1605-1608.

| Tao Peng | Beijing Union Univ. |
| :--- | :--- |
| Lianying Sun | Beijing Union Univ. |
| Hong Bao | Beijing Union Univ. |

16:10-17:40 ThP11.24
Practical Notes on Bilingual Teaching for Science \& Engineering
Majored College Students, pp. 1609-1613.

| Ken Chen | Ningbo Univ. |
| :--- | :--- |
| Qingnian Huang | Ningbo Univ. |
| Ming Hu | Ningbo Univ. |
| Meng Zhang | Ningbo Univ. |

16:10-17:40 ThP11.25
Discovery Learning and Its Application in Geomatics Education, pp. 1614-1617.

Wang Jian China Univ. of Mining \& Tech.
Gao Jing-xiang China Univ. of Mining \& Tech.
Xu Chang-hui China Univ. of Mining \& Tech.
16:10-17:40
ThP11.26
Teaching reform and practice of "Computer communication and network", pp. 1618-1620.

| Liu Yu-zhen | Liaoning Technical Univ. |
| :--- | ---: |
| Ji Chang-peng | Liaoning Technical Univ. |
| Jia Ru | Beijing Jiaotong Univ. |
| Gao Mo | Beijing Jiaotong Univ. |

16:10-17:40
ThP11.27
Collaborators Searching Algorithm Based on Learner Metadata for
CSCL, pp. 1621-1625.

| Sheng Yan-xiu | Ocean Univ. of China |
| :--- | :--- |
| Wei Mo-ji | Ocean Univ. of China |
| Xu Jian-liang | Ocean Univ. of China |

Xu Jian-liang
ThP11.28
16:10-17:40
16:10-17:40
Characteristic specialty construction of electronics and information engineering and computer education, pp. 1626-1628.

Min Tan
Xue-you Hu
Hefei Univ.
Juan-juan Gu
Hefei Univ.
Hefei Univ.
16:10-17:40
ThP11.29
Implementing a Web-based Personalized Learning and Assessment System, pp. 1629-1632.

| Wang Yu | Air Force Dalian Communication |
| :--- | ---: |
| Sergeant College |  |
| Wang Hui | Air Force Dalian Communication |
| Sergeant College |  |
| Huang Wei | Air Force Dalian Communication |
| Sergeant College |  |
| Jiao Yongge | Air Force Dalian Communication |
| Sergeant College |  |

16:10-17:40 ThP11.30
Improving Software Engineering Courses with Case Study Approach, pp. 1633-1636.

Yu Jia Wuhan Polytechnic Univ.
16:10-17:40
ThP11.31
Examples and Application of ADAMS Software in the Mechanics of Machines Teaching, pp. 1637-1641.

| Xuyang Cao | Dalian Univ. of Tech. |
| :--- | ---: |
| W. L. Cleghorn | Univ. of Toronto |

16:10-17:40 ThP11.32
Exploration and Practice of computer courses and practice teaching model, pp. 1642-1644.

| Hua Meng | Hebei Univ. of Sci. \& Tech. |
| :--- | ---: |
| Zhe Zhao | Hebei Univ. of Sci. \& Tech. |
| Xue-li Wu | Hebei Univ. of Sci. \& Tech.; YanShan Univ. |

Xue-li Wu Hebei Univ. of Sci. \& Tech.; YanShan Univ.
Yang Liu
Hebei Univ. of Sci. \& Tech.
16:10-17:40
ThP11.33
Method Exploration and Practice to Improve the Teaching Quality
of Computer speciality Sino-Ireland Cooperative Education, pp. 1645-1648.

Rongtao Hou
Xiaoping Zhao
Jinyu Zhou
Hui Li

Nanjing Univ. of Info. Sci. \& Tech. Nanjing Univ. of Info. Sci. \& Tech. Nanjing Univ. of Info. Sci. \& Tech.

HeBei Univ. of Sci. \& Tech.
16:10-17:40 ThP11.34
A study to the practice teaching system based on the ability of the computer undergraduate professional, pp. 1649-1651.

Xingnan Li
Yi Qiang Jiujiang Univ.
Yi Qiang Jiujiang Univ.
16:10-17:40
ThP11.35
Study and Practice for the Strategy of Higher Education Reform Based on Online Course, pp. 1652-1656.

Han Lihua
Shijiazhuang Tiedao Univ.
Chang Ying Shijiazhuang Tiedao Univ.
Duan Juncui Shijiazhuang Tiedao Univ.

ThP11.36
16:10-17:40
Item-Bank in Language E-Assessment: Issues and Perspectives, pp. 1657-1660.

Cheng Ke Beijing Union Univ.
Yang Yajun Beijing Union Univ.
Wang Yingwei
Li Runhua
Beijing Union Univ.
Beijing Union Univ.
16:10-17:40
ThP11.37
The study on practice teaching system structure of Electronics and Information Engineering, pp. 1661-1664.

| Lin Qiwei | Huaqiao Univ. |
| :--- | :--- |
| Feng Gui | Huaqiao Univ. |

16:10-17:40 ThP11.38
The Application of ESA Model in Teaching Large Class English
Comprehensive Reading, pp. 1665-1668.
Tang Xuemei
Anhui Univ. of Tech. \& Sci.

| ThP12 | AHU Theater Area 12 |
| :--- | ---: |
| Wireless Mesh Network (Invited Session) |  |
| Chair: Zhao Jianhua | South China Normal Univ. |
| Co-Chair: Jun Jin | Beijing Inst. of Tech. |

16:10-17:40 ThP12.1
Wireless Channel Modeling Methods: Classification, Comparison and Application, pp. 1669-1673.

| Xiangfang Mao | Tianjin Univ. |
| :--- | :--- |
| Jie Jin | Tianjin Univ. |
| Jinsheng Yang | Tianjin Univ. |

Jinsheng Yang Tianjin Univ.
16:10-17:40
ThP12.2
History and Grouping Based Probabilistic Routing in DTNs, pp. 1674-1679.

Ruitao Zhou Beijing Inst. of Tech.
Yu Zhang Beijing Univ. of Civil Engineering \& Architecture
Yuanda Cao Beijing Inst. of Tech.
Jun Jin Beijing Inst. of Tech.
16:10-17:40
ThP12.3
An Enhanced QoS Decomposition Approach for Efficient Service Composition, pp. 1680-1684.

| Jun Jin | Beijing Inst. of Tech. |
| :--- | :--- |
| Yu Zhang | Beijing Inst. of Tech. |
| Yuanda Cao | Beijing Inst. of Tech. |
| Ruitao Zhou | Beijing Inst. of Tech. |

16:10-17:40 ThP12.4
A Stochastic Network Calculus for Service Performance in Wireless Mesh Networks , pp. 1685-1688.

| Gaocai Wang | Guangxi Univ. <br> Mingxing Lai |
| :--- | :--- |
| Guangxi Univ. |  |
| Fu Huang | Guangxi Univ. |
| Taosheng Li | Guangxi Univ. |

16:10-17:40 ThP12.5
Joint Scaling of Battery Discharge and Modulation Scheme in Wireless Sensor Networks, pp. 1689-1693.

| Tang Qiuling | Guangxi Univ. <br> Liang Ye |
| :--- | :--- |
| Qin Yongming | Guangxi Univ. |
| Wen Huan | Guangxi Univ. |

16:10-17:40 ThP12.6
Multi-path Anycast Routing Based on Ant Colony Optimization in Multi-gateway WMN, pp. 1694-1698.

| Song Ling | Guangxi Univ. <br> Cao Jie <br> Guangxi Univ. |
| :--- | ---: |
| Yang Xue-jun Guangxi Zhuang Autonomous Region Electronic |  |

Products Supervision \& Inspection Center
16:10-17:40 ThP12.7
Anycast-based Gateway Selection Algorithm for Wireless Mesh Network, pp. 1699-1702.

| Ge Zhihui | Guangxi Univ. |
| :--- | :--- |
| Li Taoshen | Guangxi Univ. |
| Qiu Xiaolan | Guangxi Univ. |


| ThP13 <br> Computer Graphics II | AHU Theater Area 13 |
| :--- | ---: |
| Chair: Wei Wei | Norwegian Univ. of Sci. \& Tech. |
| Co-Chair: Cui Xuehong | Qingdao Univ. of Sci. \& Tech. |

16:10-17:40 ThP13.1
A Local Diffusion Wavelet Approach for Scattered Data Registration Based on GPU, pp. 1703-1706.

Wu weiyong
Jiujiang Univ.
Wang Yinghui Jiujiang Univ.
16:10-17:40 ThP13.2
Algorithm of Denoising Based on Point Cloud Segmentation, pp.
1707-1711.

ThP13.2 1707-1711.

| Xu Shaowen | Jiujiang Univ. |
| :--- | :--- |
| Yang Zhenyu | Jiujiang Univ. |
| Wu Weiyong | Jiujiang Univ. |

16:10-17:40
ThP13.3
Adjustment Algorithms for Bezier Curve and Surface, pp.
1712-1716.

| Zhangxiang Ye | Xiamen Univ. |
| :--- | :--- |
| Xiang Long | Xiamen Univ. |
| Xiao-ming Zeng | Xiamen Univ. |

Xiao-ming Zeng
6:10-17:40
ThP13.4
An improved Algorithm of Fast Motion Estimation Based on H.264, pp. 1717-1721.
Qiu Xiao-bin
Huang Chun-qing
Xiamen Univ. Xiamen Univ.

16:10-17:40
ThP13.5
Mixed Tensor Product Bezier-Poisson Surfaces, pp. 1722-1726.
Xiang Long
Xiamen Univ.
Zhangxiang Ye
Xiaoming Zeng
Xiamen Univ.
Xiamen Univ.
16:10-17:40
ThP13.6
A Scalable Message Authentication Scheme for JPEG2000 Codestreams, pp. 1727-1729.

| Jing Zhang | Univ. of Sci. \& Tech. Liaoning |
| :--- | :--- |
| Xiaoqian Liu | Univ. of Sci. \& Tech. Liaoning |
| Jie Wang | Univ. of Sci. \& Tech. Liaoning |

16:10-17:40
ThP13.7
Xbench: A Benchmark Evaluating the Performance of Graphic Display System in Virtual Machines, pp. 1730-1734.

| Bin Zhou | South-central Univ. for Nationalities |
| :--- | ---: |
| Ying Zhang | Huazhong Univ. of Sci. \& Tech. |

16:10-17:40
ThP13.8
Face Detection for Security Surveillance System, pp. 1735-1738.
Zhang Jian Inst. of Physical Education
Song Wan-juan Hubei Univ. of Education
16:10-17:40
ThP13.9
Research on Simulation Method of 3D Flower Blossom Process
Based on Botany Characteristics and Random Generation
Algorithm, pp. 1739-1744.

| Xiaobiao Xie | Xiamen Univ. |
| :--- | :--- |
| Zhang Ming | Xiamen Univ. |
| Chengpeng Wu | Xiamen Univ. |
| Junfeng Yao | Xiamen Univ. |

Junfeng Yao
Xiamen

16:10-17:40
ThP13.10
An Interactive System for Heterogeneous 3D Volumetric Data Visualization, pp. 1745-1749.

Huanhuan Xu Louisiana State Univ.

Wuyi Yu
Zhang Ning
Xin Li
6.10-17:40

6:10-17:40 ThP13.11
Hole Filling using Dynamic Programming for Archaeological Data Completion, pp. 1750-1754.

| Zhao Yin | Xiamen Univ. |
| :--- | ---: |
| Wei Yu | Xiamen Univ. |
| Maoqing Li | Xiamen Univ. |
| Xin Li | Louisiana State Univ. |

Xin Li
Louisiana State Univ.
16:10-17:40
ThP13.12
An Effective algorithm of Automatic Video Object Segmentation Based On Temporal-Spatial Information, pp. 1755-1759.

Yongjian Zhang Beijing Univ. of Posts \& Telecommunications; Univ. of International Relations
Dongyu Wang
Youguo Hou
North China Univ. of Tech. Nanchang Inst. of Tech.

16:10-17:40
ThP13.13
Spectral Clustering for Sonar Image Segmentation using Morphological Wavelet and Gray Level Transformation, pp. 1760-1764.

Harbin Engineering Univ. Harbin Engineering Univ. Harbin Engineering Univ.

| 16:10-17:40 ThP13. |  |
| :---: | :---: |
| Heat Transfer Characteristics of Fire Source and Its Visualiza for Spontaneous Ore Combustion, pp. 1765-1768. |  |
|  |  |
| Liu Hui | China Jiliang Univ |
| Wu Chao | China Jiliang Univ. |
| 16:10-17:40 | ThP13 |
| A new vectorial ordering for color morphology based on margina |  |
| Zhao Chunjiang | Hefei Univ |
| 16:10-17:40 | Th |
| Flow-like Textures with Line-like Structures Images Inpainting by |  |
| Improved Tensor Diffusion Model, pp. 1773-1777. |  |
| Cui Xuehong | Qingdao Univ. of Sci. \& Tech |
| 16:10-17:40 | ThP13.1 |
| A Slice-Length Selection Algorithm Based on the Frame Le |  |
| RDO, pp. 1778-1782. |  |
| Ruan Ruolin | Wuhan Univ.; Xianning Univ |
| Hu Ruimin | Wuhan Un |
| Chen Hao | Wuhan U |
| 16:10-17:40 |  |
| The Key Technology for the ATC Tower Visualization System |  |
| Modeling Based on Creator, pp. 1783-1786. |  |
| Zhao Yifei Civil Aviation Univ. of C |  |
| Song WeiweiLi Nan | Civil Aviation Univ. of Chin |
|  | Civil Aviation Univ. of Chin |
| 16:10-17:40 | ThP |
| Characteristic Extraction of stereo images , pp. 1787-1790. |  |
| Lili Shen | Tianjin Universtiy |
| Zhuoyun Zhang | Tianjin Universtiy |
| Wang Qing | Tianjin Universtiy |
| Rongxue Zhang | uangjia electronics Co. Lt |

16:10-17:40
ThP13.20
Design and Implementation of Image Retrieval System for Science and Technology Resources Database Based on Web, pp. 1791-1795.

| Han Lihua | Shijiazhuang Tiedao Univ. |
| :--- | :--- |
| Wang Xuejun | Shijiazhuang Tiedao Univ. |


| ThP14 | AHU Theater Area 14 |
| :--- | ---: |
| Database \& Systems Engineering II |  |
| Chair: Hong Wenxing | Xiamen Univ. |
| Co-Chair: Li Liang | Beihang Univ. |

16:10-17:40 ThP14.1
An Improved Template-based Method for Mining Association
Rules from Defect Repositories, pp. 1796-1799.
Ning Li Northwestern Polytechnical Univ.
Zhanhuai Li Northwestern Polytechnical Univ.
Xia Li
Northwestern Polytechnical Univ.
16:10-17:40 ThP14.2
A Method for Sensing Spatial Spectrum Holes Based on Interference Temperature, pp. 1800-1804.

| Shang Cuili | Beijing Univ. of Posts \& Telecommunications |
| :--- | :--- |
| Wu Muqing | Beijing Univ. of Posts \& Telecommunications |
| Guo Qilin | Beijing Univ. of Posts \& Telecommunications |

16:10-17:40
ThP14.3
Research and Implement of traffic accident analysis system based on accident black spot, pp. 1805-1809.

| Jihua Ye | Jiangxi Normal Univ. |
| :--- | ---: |
| Yanhui Zhou | Jiangxi Normal Univ. |
| Ming Li | Jiangxi Normal Univ. |
| Chunlan Wang | Jiangxi Vocational \& Technical |
|  | College of Electricity |

16:10-17:40
ThP14.4


| Wu Yuan-hong <br> Tan Xiao-qiu | Zhejiang Ocean Univ. <br> Zhejiang Ocean Univ. |
| :--- | ---: |
| 16:10-17:40 | ThP15.6 |
| An approach to check the consistency | between the UML 2.0 |
| Dynamic Diagrams, pp. 1913-1917. <br> Lu Gongzheng <br> Zhang Guoquan |  |
| Shanghai Univ.; Suzhou Vacational Univ. |  |

16:10-17:40 ThP15.7
Quantitative Analysis of inter-Project Dependence with JDT and Correlation Right algorithm, pp. 1918-1922.

| Huiqun Chen | Xiamen Univ. |
| :--- | :--- |
| Beizhan Wang | Xiamen Univ. |
| Zhenpeng Zhan | Xiamen Univ. |
| Lida Lin | Xiamen Univ. |

16:10-17:40
ThP15.8
Towards the Software Architectural Design with an Integrated Aspect-Oriented Modeling Approach, pp. 1923-1928.

Haiming Zhang Naval Univ. of Engineering Wuhan
Kerong Ben Naval Univ. of Engineering Wuhan
16:10-17:40
ThP15.9
Development of 3-Dimensional CAD Management System Software for EPS, pp. 1929-1931.

Zhao Yan
Wuhan Univ. of Tech.
Li Yufei
Wuhan Univ. of Tech.

16:10-17:40
ThP15.10
The Reform and Exploration on Education Model of Software Engineering Talents, pp. 1932-1934.

Hong Wang Hubei Univ. of Economics
Tao Wang
Hubei Univ. of Economics
Shenglong Tan Hubei Univ. of Economics
16:10-17:40
ThP15.11
On Extending Aggregate Relation in UML and Its Errors Evaluation, pp. 1935-1938.
Zhao Bo Yunnan Normal Univ.
Xiao Fei Yunnan Normal Univ.

Zhang Jie Yunnan Normal Univ.
Duan Chongjiang Yunnan Normal Univ.
16:10-17:40
ThP15.12
Integrative System Structure of Quality Data Acquisition, Monitoring and Management Oriented to Cotton-spinning Enterprise, pp. 1939-1942.
$\begin{array}{ll}\text { Zhao Xiaoping } & \text { Jiangxi Univ. of Finance \& Economics } \\ \text { Dong Zhenwang } & \text { Jiangxi Univ. of Finance \& Economics }\end{array}$
Jiangxi Univ. of Finance \& Economics

