

Weina Fu  
Lin Yun (Eds.)



469

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# Advanced Hybrid Information Processing

6th EAI International Conference, ADHIP 2022  
Changsha, China, September 29–30, 2022  
Proceedings, Part II

Part 2



# Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering

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Weina Fu · Lin Yun  
Editors

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# Preface

We are delighted to introduce the proceedings of the Sixth European Alliance for Innovation (EAI) International Conference on Advanced Hybrid Information Processing (ADHIP 2022). This conference brought together researchers, developers and practitioners from around the world who are leveraging and developing hybrid information processing technologies as well as related learning, training, and practice methods. The theme of ADHIP 2022 was “Hybrid Information Processing in Meta World”.

The technical program of ADHIP 2022 consisted of 109 full papers, which were selected from 276 submissions by at least 3 reviewers each, including 2 invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Track 1, Information Extraction and Processing in Digital World; Track 2, Education Based Methods in Learning and Teaching; Track 3, Various Systems for Digital World. The technical program also featured two keynote speeches: “Graph Learning for Combinatorial Optimization”, by Yun Peng from Guangzhou University, China, which focused on the advantages of using graph learning models for combinatorial optimization, and presented a thorough overview of recent studies of graph learning-based CO methods and several remarks on future research directions; and “Intelligent Fire Scene Analysis Using Efficient Convolutional Neural Networks”, by Khan Muhammad from Sungkyunkwan University, Republic of Korea, which presented currently available approaches for early fire detection and highlighted some major drawbacks of current methods, and it also discussed a few representative vision-based fire detection, segmentation, and analysis methods along with the available fire datasets, and the major challenges in this area.

Coordination with the steering chair Imrich Chlamtac was essential for the success of the conference. We sincerely appreciate his constant support and guidance. It was also a great pleasure to work with such an excellent organizing committee team, we appreciate their hard work in organizing and supporting the conference. In particular, the Technical Program Committee, led by our TPC Chair, Khan Muhammad who completed the peer-review process of technical papers and made a high-quality technical program. We are also grateful to the Conference Managers, to Ivana Bujdakova for her support, and to all the authors who submitted their papers to the ADHIP 2022 conference.

We strongly believe that the ADHIP conference provides a good forum for researchers, developers, and practitioners to discuss all the science and technology aspects that are relevant to hybrid information processing. We also expect that future ADHIP conferences will be as successful and stimulating, as indicated by the contributions presented in this volume.

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## Contents – Part II

Composite Fault Signal Detection Method of Electromechanical Equipment Based on Empirical Mode Decomposition .....	1
<i>Guolong Fu, Jintian Yin, Shengyi Wu, Li Liu, and Zhihua Peng</i>	
Research on Fast Separation Method of Motor Fault Signal Based on Wavelet Entropy .....	14
<i>Jintian Yin, Li Liu, Junfei Nie, Zhihua Peng, and Riheng Chen</i>	
Steering Control Method of Mobile Forklift Based on Sensing Signal .....	26
<i>Haochen Zhang and Chen Xian</i>	
Extraction Method of Vibroseis Phase Signal Based on Time-Varying Narrowband Filtering .....	40
<i>Haochen Zhang and Chen Xian</i>	
Research on Intelligent Prediction of Power Transformation Operation Cost Based on Multi-dimensional Mixed Information .....	55
<i>Ying Wang, Xuemei Zhu, Ye Ke, Jing Yu, and Yonghong Li</i>	
Research on Automatic Storage of Remote Mobile Surveillance Video Information Based on Cloud Terminal .....	70
<i>Zihe Wei and Zhihui Zou</i>	
Recognition of Self-organized Aggregation Behavior in Social Networks Based on Ant Colony Algorithm .....	84
<i>Nan Hu and Hongjian Li</i>	
Data Clustering Mining Method of Social Network Talent Recruitment Stream Based on MST Algorithm .....	99
<i>Hongjian Li and Nan Hu</i>	
Risk Control Method of Enterprise Social Network Marketing Based on Big Data Fusion Technology .....	112
<i>Zhiyi Deng and Jin Li</i>	
Intelligent Push Method of Human Resources Big Data Based on Wireless Social Network .....	127
<i>Xiaoyi Wen and Jin Li</i>	

Situational Simulation Teaching System of Information Literacy Education Based on Mobile Terminal .....	142
<i>Xin Wang and Fan Lv</i>	
Dynamic Integration Method of Economic Teaching Resources Based on Information Fusion .....	156
<i>Fan Lv, Ying Chen, and Xin Wang</i>	
Business Information Mining Technology of Social Media Platform Based on PageRank Algorithm .....	170
<i>Ying Liu</i>	
Intelligent Mining Algorithm of Macroeconomic Information for Social Network .....	187
<i>Ying Liu</i>	
Nonlinear Time-Varying Weak Signal Enhancement Method Based on Particle Filter .....	201
<i>Zhiming Li</i>	
Design of Adaptive Multi Stream Transmission Control Method in Social Communication Network .....	217
<i>Zhiming Li</i>	
Real Time Broadcasting Method of Sports Events Using Wireless Network Communication Technology .....	232
<i>Xueqiu Tang and Yang Yang</i>	
Sports Event Data Acquisition Method Based on BP Neural Network and Wireless Sensor Technology .....	245
<i>Yang Yang and Xueqiu Tang</i>	
Recommendation Method of Ideological and Political Mobile Teaching Resources Based on Deep Reinforcement Learning .....	257
<i>Yonghua Wang</i>	
Personalized Recommendation Method of Nursing Multimedia Teaching Resources Based on Mobile Learning .....	273
<i>Haitao Zhang and Yufeng Sang</i>	
A Method of Abnormal Psychological Recognition for Students in Mobile Physical Education Based on Data Mining .....	286
<i>Changyuan Chen and Kun You</i>	

Design of Online Auxiliary Teaching System for Accounting Major Based on Mobile Terminal .....	297
<i>Yanbin Tang</i>	
Mobile Teaching Quality Evaluation Model of Industry-University-Research Education Based on Data Mining .....	312
<i>Yanbin Tang</i>	
Classified Evaluation Model of Online Teaching Quality in Colleges and Universities Based on Mobile Terminal .....	325
<i>Lei Han and Qiusheng Lin</i>	
Dynamic Recognition Method of Track and Field Posture Based on Mobile Monitoring Technology .....	336
<i>Qiusheng Lin and Lei Han</i>	
Personalized Recommendation Method of Online Music Teaching Resources Based on Mobile Terminal .....	349
<i>Hui Lin, Ying Lin, and Hongping Huang</i>	
Dynamic Evaluation Method of College English Cross-Cultural Teaching Based on Mobile Terminal Technology .....	362
<i>Ying Lin, Hui Lin, Megawati Soekarno, and Yangbo Wu</i>	
Blockchain-Based Social Media Software Privacy Data Cloud Storage Method .....	376
<i>Jianjun Tang and Xiaopan Chen</i>	
Research on Abnormal Behavior Extraction Method of Mobile Surveillance Video Based on Big Data .....	390
<i>Liyong Wan and Ruirong Jiang</i>	
Network Information Security Risk Assessment Method Based on Machine Learning Algorithm .....	403
<i>Ruirong Jiang and Liyong Wan</i>	
A Dynamic Monitoring Method of Social Network Worm Attack Based on Improved Decision Tree .....	417
<i>Wei Ge</i>	
A Method for Dynamic Allocation of Wireless Communication Network Resources Based on Social Relations .....	431
<i>Changhua Li and Wei Ge</i>	

A Novel Weight Adaptive Multi Factor Authorization Technology .....	446
<i>Ruiqi Zeng, Leyu Lin, and Yue Zhao</i>	
Multi-source Data Collection Data Security Analysis .....	458
<i>Lei Ma and Yunwei Li</i>	
Detection Method of Fake News Spread in Social Network Based on Deep Learning .....	473
<i>Yandan Lu and Hongmei Ye</i>	
Tracing Method of False News Based on Python Web Crawler Technology .....	489
<i>Hongmei Ye, Yandan Lu, and Gang Qiu</i>	
Design of Mobile Monitoring System for Natural Resources Audit Considering Risk Control .....	503
<i>Huang Meng and Xuejing Du</i>	
Psychological Motivation Model of Employee Turnover Risk Management Based on ERP System .....	519
<i>Han Yin</i>	
Prediction Method of Consumption Behaviour on Social Network Oriented to User Mental Model .....	534
<i>Han Yin</i>	
Construction Safety Monitoring System Based on UAV Image .....	546
<i>E. Yang, Jing Yang, Kangyan Zeng, and Yan Zheng</i>	
Research on Construction Risk Monitoring Method Based on Mobile Terminal .....	557
<i>Jing Yang, Kangyan Zeng, Caixia Zuo, and E. Yang</i>	
Construction Risk Monitoring Method of Subway Foundation Pit Engineering Based on Simulated Annealing Neural Network .....	571
<i>Tengfei Ma, Mingxian Zhang, Zhuoli Ji, Shuibing Zhang, and Yi Zhang</i>	
Design of Mobile Monitoring System for Tower Crane in Assembly Construction Based on Internet of Things Technology .....	588
<i>Dongwei Zhang, Shun Li, and Hongxu Zhao</i>	
Personalized Recommendation Method of Innovation and Entrepreneurship Education Resources Based on Social Network Platform .....	604
<i>Shun Li, Dongwei Zhang, and Xiaolin Zhou</i>	

<p>Digital Management System of Library Books Based on Web Platform . . . . .</p> <p style="padding-left: 2em;"><i>Xing Zhang</i></p>	<p>620</p>
<p>Design of Numerical Control Machining Simulation Teaching System Based on Mobile Terminal . . . . .</p> <p style="padding-left: 2em;"><i>Liang Song and Juan Song</i></p>	<p>632</p>
<p>Evaluation Method of Mobile Online Course Effect of Gender Psychological Education for Primary School Students . . . . .</p> <p style="padding-left: 2em;"><i>Yi Zhang and Tengfei Ma</i></p>	<p>647</p>
<p>Evaluation Method of Teaching Quality of Adolescent Health Physical Education Based on Mobile Education Technology . . . . .</p> <p style="padding-left: 2em;"><i>Yanfeng Wu and Xu Liu</i></p>	<p>662</p>
<p>Evaluation Method of Physical Education Teaching Quality in Higher Vocational Colleges Using Mobile Teaching Terminal . . . . .</p> <p style="padding-left: 2em;"><i>Wei He and Daoyong Pan</i></p>	<p>676</p>
<p>Simulation of Impact Force Absorption of Synthetic Rubber Materials in Volleyball Court Based on Discrete Element Method . . . . .</p> <p style="padding-left: 2em;"><i>Jun Xie and Gang Qiu</i></p>	<p>688</p>
<p>Research on False Public Opinion Recognition Method of Social Network Based on Fuzzy Cluster Analysis . . . . .</p> <p style="padding-left: 2em;"><i>Gang Qiu and Jun Xie</i></p>	<p>703</p>
<p>Research on Abnormal Target Recognition of Full Information Mobile Monitoring Based on Machine Vision . . . . .</p> <p style="padding-left: 2em;"><i>Yudong Wei and Yuhong Xia</i></p>	<p>720</p>
<p><b>Author Index . . . . .</b></p>	<p><b>735</b></p>

## Contents – Part I

Practical Model of College Students' Innovation and Entrepreneurship Education Based on Social Cognitive Career Theory .....	1
<i>Miaomiao Xu and Jun Li</i>	
3D Visualization Method of Folk Museum Collection Information Based on Virtual Reality .....	14
<i>He Wang and Zi Yang</i>	
Design of Pond Water Quality Monitoring System Based on Mobile UAV Technology .....	28
<i>Shaoyong Cao, Xinyan Yin, Huanqing Han, and Dongqin Li</i>	
Passive Positioning Method of Marine Mobile Buoy Based on Vibration Signal Extraction .....	41
<i>Xuanqun Li and Yun Du</i>	
Optimization of Data Query Method Based on Fuzzy Theory .....	56
<i>Yunwei Li and Lei Ma</i>	
Study Demand Mining Method of College Students' Physical Health Preservation Based on Cognitive Model .....	68
<i>Kun You and Changyuan Chen</i>	
High Precision Extraction of UAV Tracking Image Information Based on Big Data Technology .....	81
<i>Xiaobo Jiang and Wenda Xie</i>	
Monitoring Method of Ideological and Political Class Learning Status Based on Mobile Learning Behavior Data .....	95
<i>Yonghua Wang</i>	
Real Time Monitoring Method of Exercise Load in Dance Training Course Based on Intelligent Device .....	107
<i>XiaoSha Sun and Xiang Gao</i>	
An Efficient Compression Coding Method for Multimedia Video Data Based on CNN .....	123
<i>Xu Liu and Yanfeng Wu</i>	

Intelligent Push Method of News and Information for Network Users Based on Big Data .....	137
<i>Ting Chen and Zihui Jin</i>	
Sports Simulation Training System Based on Virtual Reality Technology .....	151
<i>Xiang Gao and XiaoSha Sun</i>	
A Design Scheme of Data Security for Unmanned Aerial Vehicles .....	165
<i>Dongyu Yang, Yue Zhao, Zhongqiang Yi, Dandan Yang, and Shanxiang He</i>	
Distance Teaching Method of Welding Process Course for Mobile Learning Platform .....	179
<i>Juan Song and Liang Song</i>	
Automatic Recognition Method of Table Tennis Motion Trajectory Based on Deep Learning in Table Tennis Training .....	191
<i>Liusong Huang, Fei Zhang, and Yanling Zhang</i>	
Construction of Social Network Big Data Storage Model Under Cloud Computing .....	205
<i>Zihui Jin and Ting Chen</i>	
Anomaly Monitoring System of Enterprise Financial and Economic Information Based on Entropy Clustering .....	217
<i>Yu Chen and Kaili Wang</i>	
Classification and Retrieval Method of Library Book Information Based on Data Mining .....	231
<i>Xing Zhang</i>	
Construction of Cognitive Model of Traditional Sports Health Preservation from the Perspective of Body-Medicine Integration .....	244
<i>Fangyan Yang, Chun Zhou, and Ying Liu</i>	
Design of Remote Video Surveillance System Based on Cloud Computing .....	257
<i>Wei Zou and Zhitao Yu</i>	
Physical Movement Monitoring Method of College Physical Education Students Based on Genetic Algorithm .....	271
<i>Daoyong Pan and Wei He</i>	
Research on Large Data Mining for Online Education of Mobile Terminal Based on Block Chain Technology .....	286
<i>Zhitao Yu and Wei Zou</i>	



Separation Algorithm of Fixed Wing UAV Positioning Signal Based on AI . . . .	300
<i>Zhihui Zou and Zihe Wei</i>	
Research on Hybrid Maintenance Cost Prediction of Smart Grid Based on Multi-dimensional Information . . . . .	313
<i>Ying Wang, Xuemei Zhu, Ye Ke, Chenhong Zheng, and Shiming Zhang</i>	
Infrared Image Face Recognition Method Based on Signal Interference Technology . . . . .	327
<i>Zongren Chen and Wenda Xie</i>	
Remote Tutoring System of Ideological and Political Course Based on Mobile Client . . . . .	339
<i>Xiaopan Chen and Jianjun Tang</i>	
Operational Risk Prevention and Control Monitoring of Smart Financial System Based on Deep Learning . . . . .	353
<i>Hui Zhu</i>	
Remote Monitoring Method of Athlete Training Intensity Based on Mobile Internet of Things . . . . .	366
<i>Qiang Zhang and Hui Xu</i>	
Research on Equipment Management System of Smart Hospital Based on Data Visualization . . . . .	381
<i>Yuanling Ma, Xiao Ma, Chengnan Pan, Runlin Li, and Zhi Fang</i>	
Design of Information Consultation System for the Whole Process of Construction Engineering Based on BIM Technology . . . . .	397
<i>Yufei Ye, Xiao Ma, Zepan Yang, Cancan Liao, and Leihang Chen</i>	
The Mobile Teaching Method of Law Course Based on Wireless Communication Technology . . . . .	411
<i>Xuejing Du, Yi Wang, and Meng Huang</i>	
Design of Financial and Economic Monitoring System Based on Big Data Clustering . . . . .	426
<i>Kaili Wang and Yu Chen</i>	
Recommendation Method of College English Online Mobile Teaching Resources Based on Big Data Mining Algorithm . . . . .	440
<i>Yuhong Xia and Yudong Wei</i>	

Design of Electronic Communication Power Monitoring System Based on GPRS Technology .....	453
<i>Ying Liu and Fangyan Yang</i>	
Online Interactive Platform for College English Intensive Reading Teaching Based on Cloud Service .....	467
<i>Lin Fan</i>	
Intelligent Platform for College English Blended Teaching Based on Mobile Learning .....	481
<i>Lin Fan</i>	
Cloud Service-Based Online Self-learning Platform for College English Multimedia Courses .....	494
<i>Guiling Yang</i>	
Research on Export Trade Information Sharing Method Based on Social Network Data .....	510
<i>Guiling Yang</i>	
Intelligent Evaluation Algorithm of Undergraduate College English Mobile Learning Efficiency Based on Big Data .....	522
<i>Hui Li</i>	
Design of Online Learning Efficiency Evaluation Algorithm for College English Based on Data Mining .....	537
<i>Hui Li</i>	
Design of Network Traffic Anomaly Monitoring System Based on Data Mining .....	549
<i>Yanling Huang and Liusong Huang</i>	
Research on Operational Risk Monitoring Method of Intelligent Financial System Based on Deep Learning and Improved RPA .....	564
<i>Liang Yuan and Hui Zhu</i>	
Mobile Terminal-Oriented Real-Time Monitoring Method for Athletes' Special Training Load .....	578
<i>Hui Xu and Qiang Zhang</i>	
Design of Energy Consumption Monitoring System for Group Building Construction Based on Mobile Node .....	592
<i>Yan Zheng, E. Yang, Shuangping Cao, and Kangyan Zeng</i>	

Construction of Mobile Education Platform for Entrepreneurial Courses  
of Economic Management Specialty Based on Cloud Computing ..... 607  
*Huishu Yuan and Xiang Zou*

Social Network Real Estate Advertisement Push Method Based on Big  
Data Analysis ..... 620  
*Yun Du and Xuanqun Li*

Prediction Method of Crack Depth of Concrete Building Components  
Based on Ultrasonic Signal ..... 634  
*Kangyan Zeng, Yan Zheng, Jiayuan Xie, and Caixia Zuo*

Virtual Reconstruction of Museum Spatial Information Based on Unity3D ..... 648  
*Zi Yang and He Wang*

Research on Encrypted Transmission Method of Survey Data of Offshore  
Engineering Buoy ..... 660  
*Wenyan Wang and Huanyu Zhao*

Tracking Method of Ocean Drifting Buoy Based on Spectrum Analysis ..... 673  
*Huanyu Zhao and Wenyan Wang*

Compensation Method of Infrared Body Temperature Measurement  
Accuracy Under Mobile Monitoring Technology ..... 688  
*Jun Li, Jun Xing, Yi Zhou, Qingyao Pan, and Miaomiao Xu*

Risk Identification Model of Enterprise Strategic Financing Based  
on Online Learning ..... 702  
*Xiang Zou and Huishu Yuan*

Research on Autonomous Learning Management Software Based  
on Mobile Terminal ..... 715  
*Han Yin and Qinglong Liao*

Research on Online Monitoring of Power Supply Reliability of Distribution  
Network Based on Mobile Communication Technology ..... 728  
*Qinglong Liao, Qunying Yang, Dongsheng Zhang, Xiao Tan,  
Xiaodong Wu, and Han Yin*

Multi Node Water Quality Monitoring System of Fish Pond Based  
on Unmanned Ship Technology ..... 744  
*Shaoyong Cao, Xinyan Yin, Huanqing Han, and Dongqin Li*

Evaluation Model of Teaching Quality of College English Integrated into Ideological and Political Course Under Social Network ..... 760  
*Yang Gui and Jiang Jiang*

Application of Cloud Security Terminal in Information Management of Power Industry ..... 771  
*Jiang Jiang, Hanyang Xie, Yuqing Li, and Jinman Luo*

**Author Index** ..... 785