

3rd International Conference on Modern Education and Information Management (ICMEIM 2022)

Held online

Atlantis Highlights in Social Sciences, Education and
Humanities Volume 703

Chengdu, China
16 - 18 September 2022

Part 1 of 2

Editors:

**Vishalache Balakrishnan
Intakhab Alam Khan
Mehmet Cuneyt Birkok**

ISBN: 978-1-7138-7078-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Print copyright© (2022) by Atlantis Press (part of Springer Nature)
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Van Godewijkstraat 30
3311GX Dordrecht
The Netherlands

contact@atlantis-press.com

Printed with permission by Curran Associates, Inc. (2023)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

Keyword Retrieval of Foreign Media Discourse Based on Dynamic Speech Recognition.....	1
<i>Meng Li</i>	
Research on the Strategy of Promoting Python Teaching by Online Practice Platform	12
<i>Jinli Li, Xuebo Zhang, Lin Wang</i>	
A Review of Domestic and Overseas Research on Data Literacy Education.....	23
<i>Yuqing Tang, Lu Han</i>	
An Investigation into EFL Learners' Evaluation of the On-Line Diagnostic Assessment: The Case of UDig Reading Test.....	30
<i>Yan Gao</i>	
High School English Performance Analysis Using Interpretable Machine Learning Approach	38
<i>Shufang Qu, Hun Lee Koay</i>	
Design of Circuit Course Micro-course Based on ADDIE Model.....	47
<i>Xing Xu, Ruicheng Yan, Xiaoling Yan</i>	
The Design and Development of Comprehensive Analysis System of Investigation and Interrogation Text Based on Data Mining	56
<i>Hong Zhou, Yipeng Yang</i>	
A Hybrid Teaching Model for the Software Requirement Analysis and Modeling Course.....	61
<i>Haibo Li, Miao Chen</i>	
Construction and Application of Intelligent Supervision Platform for Food Safety in Colleges and Universities Under Big Data Technology	66
<i>Lei Su</i>	
Linkage Analysis Between Bitcoin and Nasdaq Index Based on ARIMAX Model.....	71
<i>Ruixin Hu, Xuecheng Wang</i>	
Evaluation Indexes of Influence and Its Application of Military-Related WeChat Official Accounts in the New Era.....	79
<i>Wei Liu, Linjun Fan</i>	
An Empirical Study on the Development of Educational Economy in Ethnic Areas Behind Modern Information Technology	85
<i>Chuanli Wei, Jianghong Zhao</i>	
An Empirical Study of Students' Entrepreneurship Analysis Based on Data Mining Technology.....	92
<i>Hong Zhang</i>	
Research on SPOC Blended Teaching Mode of Higher Vocational English Based on “Output- Oriented Method”.....	113
<i>Nini Zhang</i>	

Evaluation of Normal Students' Teaching Ability from the Perspective of Wisdom Education— Taking Chongqing Normal University as an Example	122
<i>Siru Ren</i>	
The Visual Analysis of Hanfu Research from the Perspective of Digital Humanities Based on CNKI	129
<i>Lanying Guo, Danhong Xu</i>	
Application and Practice of “Student-Centered” Information-Based Teaching Mode in Automobile Maintenance Course	138
<i>Xiaojuan Lin, Linjun Tong, Jianwen Cai, Jianjun Ma</i>	
Design of Online Teaching Platform of College National Music Under the Background of Internet+ Education	147
<i>Yantao Shi</i>	
Reform and Innovation Mode of College Music Teaching Under the Background of Internet Plus Times	156
<i>Yantao Shi</i>	
The Construction of Online Learning Platform of Ideological and Political Education in Colleges and Universities Under the Background of Internet+ Education	166
<i>Liling Xu</i>	
Research on the Supply and Demand Pattern of Inter-provincial Compulsory Educational Resources in China Based on Hierarchical Clustering Analysis	171
<i>Xiaohui Fan, Liujuan Chen, Jiawei Chen, Yan Liu</i>	
Applying K-Means Algorithm to Students' Online Learning Data Mining: From Perspective of “1+X” BIM Vocational Skill Level System Reform.....	184
<i>Lili Zhang, Xiaorong Chen, Dunhua Huang, Mengyuan Lin, Tingting Liu</i>	
Strategies of Improving the Internationalization of Local Universities Based on ISEC Project	193
<i>Xiaoran Lin, Yachao Wang, Jianke Li, Jifang Wang</i>	
The Effectiveness of Using Corpus Technology in College English Teaching.....	202
<i>Shan Xia</i>	
Face Recognition Based on Citation Network and Main Path Analysis Research on Technology Evolution Path	211
<i>Shenxu Wang, Duanwu Yan, Decheng Duan, Mingcheng Liu</i>	
The Construction of Online Teaching Platform of Ideological and Political Education in Physical Education Curriculum Based on Web Technology	218
<i>Chunhui Lv</i>	
Course Selection Recommendation Based on Hybrid Recommendation Algorithms	223
<i>Luxiao Zhu, Ben Wang</i>	
Application and Practice of Online Teaching of Computer Image Processing Courses Under the Concept of OBE Education	230
<i>Li Wang</i>	
The Construction of Double Network Simulation Training System for College Students Based on Cloud Platform	235
<i>Hua Xie</i>	

Analysis of the Impact of Smart Taxation on Enterprises Based on the Fourth Golden Tax Information System	240
<i>Tieping Wang</i>	
A Preliminary Study on the Shift from “Rule of Law Curriculum” to “Curriculum with Rule of Law Concept”	245
<i>Xiaxia Cao, Ying Wang, Xiang Li</i>	
Construction and Research of Short-Term Training Smart Classroom.....	254
<i>Chao Zhang, Chunxiao Song, Huiyan Yin, Yang Han, Qiang Luo</i>	
Syntheses Knowledge of Targeted Poverty Alleviation in 2012–2021 of China: A Bibliometric Analysis.....	263
<i>Changyu Fu, Yaqiao Zhao</i>	
Research on the Design of Training Evaluation Assistant Analysis System Based on Digital Capability Label Hierarchy	272
<i>Yanheng Zhao, Zhan Shi, Weijie Chen, Ran Fang, Xudong Zhang</i>	
The Design and Implementation of Interactive Online Training Teaching System in Digital Education Environment	281
<i>Tingting Hao, Yang Liu, Xiuping Li, Yue Li, Hanting Wang</i>	
Develop an Online Portfolio Model for Optimal Trading Strategies.....	292
<i>Junyu Xiong, Zhaoyi Li, Yuyao Zhang, Guoyan Chen, Xuesong Liu</i>	
A Correlation Study of Self-efficacy and Occupational Burnout Among University Foreign Language Teachers	300
<i>Yali Qiang</i>	
Japanese Online and Offline Hybrid Teaching-Learning Analysis Model Built on Big Data Technology	307
<i>Jingshu He</i>	
How to Promote Deep Learning of Chinese Language Learners in Asynchronous Interaction Mode: Taking Recorded Courses as an Example.....	315
<i>Xia Zhan</i>	
The Collaboration of Universities with Primary and Secondary Schools Empowered by Information Technology in Promoting Teachers’ Professional Innovation Development	324
<i>Shanshan Wu, Hailang Chen</i>	
Construction of Teaching Reform Model of International Trade Based on Correlation Analysis and Regression Analysis in SPSS Statistical Software.....	331
<i>Wang Aiqin, Yuan Qingyuan</i>	
Empirical Research on Academic Acculturation of Sino-Foreign Double-Degree Chinese Undergraduates in the Modern Education Times.....	340
<i>Bojun Zou</i>	
Applied Research of Data Fusion Governance and Sharing System on Education Informatization	346
<i>Kun Liu, Guofeng Xu, Peng Wang</i>	
The Exploration of SPOC Development and Application in Higher Mathematics Under the Environment of “Internet + Education”	353
<i>Xiuhui Liang, Dan Zhang, Xiushu Liang</i>	

The Design and Implementation of Online Teaching System for Photography Major Under the Background of “Internet Plus”	358
<i>Caicai Li</i>	
Research on the Development of Digital Online Education in Colleges and Universities During the Period of COVID-19	363
<i>Xin Cheng, Lijun Wang, Xinxin Liu, Jing Jin, Yating Wang, Yidan Zhou</i>	
Study on the Travel Barriers and Social Supports of Autistic Children Using Knowledge Graph	371
<i>Xianling Xia, Yue Meng, Changjiang Tao, Zhiping Zheng</i>	
Research and Construction of Power Communication Transmission Network Operation and Maintenance Training System	376
<i>Yanheng Zhao, Chunxiao Song, Ran Fang, Zhan Shi, Xudong Zhang</i>	
Analysis on the Layout of Education Industry Under Information Science: A Case Study of Hefei.....	383
<i>Zerui Yuan</i>	
Measuring the Effect of Smart Tourism Technology on Travelers’ Perceived Value, Use Intention, and Overall Tourism Destination Satisfaction	392
<i>Ziyi Wang, Zixiao Lin</i>	
Quantitative Analysis of Intelligent Speech System Applied to English Speech Assessment	401
<i>Ye Wang</i>	
Modern Engineering Project Management Based on Deep Artificial Intelligence Technology	406
<i>Ailian Gao, Nolan L. Guillao, Ziping Yu</i>	
Art Teaching Design Based on ARCS Motivation Model	415
<i>Zhaoyu Li</i>	
A Study on Teachers’ Oral Corrective Feedback Based on Computer Data Analysis	424
<i>Ting Li</i>	
Research on Classroom Teaching Quality Evaluation of “Database Principle and Application” Based on OBE Concept.....	432
<i>Dandan He, Fang Qin</i>	
Analysis of the Relationship Between Job Satisfaction and Turnover Tendency of Teachers in Dongguan Private Universities Based on SPSS	439
<i>Xiaocheng Wang, Qingmei Chen</i>	
Research on Sentiment Analysis in Network Public Opinion – A Case Study of Song Plagiarism.....	447
<i>Yao Li, Sihui Li, Jingjing Jiang, Huimei Wei</i>	
The Way to Embed People’s Democracy in the Whole Process into Urban Grass-Roots Governance Through Modern Information Technology	455
<i>Rongxuan Guo</i>	
Dynamically Evaluating Innovation Efficiency and Its Determinants of Public Research and Development (R&D) Systems	461
<i>Qianqian Yuan</i>	
Credit Bank Training System for Digital Creativity and Media Majors in Art Design	470
<i>Xia Sun</i>	

Student-Centered Stratified Service Management Mode of Polytechnic Colleges—A Case Study of Shandong Institute of Commerce and Technology	478
<i>Xiaoliang Cui</i>	
“5G + VR” Technology Enables the Construction of Smart Classrooms in Universities	487
<i>Wenwen Zhu, Siyue Wang</i>	
Building a New Online and Offline Hybrid Teaching Evaluation Index System and Application Research	495
<i>Hui Chen, Rongjun Huang</i>	
Research and Implementation of Online English Education Learning Performance Prediction Under the Background of Big Data	502
<i>Han Bao</i>	
A Survey Analysis on Online Teaching in an Independent College During the Post-pandemic Era	511
<i>Yulian Chen</i>	

PART 2

The Exploration of O2O Teaching Mode in College English Classroom	521
<i>Yuanmin Zhang, Hanyan Liu, Kaini Zhi</i>	
The Research on Architecture and Key Technology in Constructing Digital Twin Campus in Education Metaverse	529
<i>Xiuchen Mi, Menghui Yuan</i>	
Strategies for Improving College Students' Media Literacy Under the Background of Computer Modern Information Technology	536
<i>Youyuan Feng, Jun Tu</i>	
Design and Practice of Artificial Intelligence in Physical Education System	544
<i>Yuwen Wan</i>	
Research on Design and Construction of Learning Cyberspace Based on PST Framework in Higher Education	550
<i>Qun Ji, Peishun Wang</i>	
Research on the Intelligent Construction Mode of Vocational Education Based on Big Data Mining	558
<i>Chunhua Wang, Fei Wang</i>	
Construction of Online Teaching Quality Assurance Index System Based on Big Data and TQM Theory	563
<i>Lei Wang</i>	
Design of Track and Field Stopwatch Timing System Based on Serial Communication Software	569
<i>Ali Yu</i>	
Research on Scientific Research Information Management System Under the Background of Big Data	575
<i>Zhengqian Feng, Wang Li, Ning Dang, Xikai Ding, Zhongwei Chen</i>	
The Transformation Mechanism of China's Scientific and Technological Achievements from the Perspective of Knowledge Flow	582
<i>Liman Shan</i>	

Special Take-Off Technical Diagnosis of Zi'ang Dong, the Gymnasiade Champion in Men's High Jump	588
<i>Jiawei Liu, Tinggang Yuan, Jinbao Hou</i>	
Design of Physical Education Teaching Quality Evaluation System Based on BS Architecture	597
<i>Yuhua Huang</i>	
The Design and Application of Online Training System for College Physical Education Teachers Under the Background of "Internet+ Education"	603
<i>Yue Jia</i>	
From "Blended" to "Integrated": Computer Aided Online-Merge-Offline Teaching Reform Supported by MOOCs and PPT in the "Internet+" Era	608
<i>Yueyue She</i>	
Research on the Education Future Scene of Artificial Intelligence from the View of Machine Behavior	616
<i>Wenhua Liu</i>	
Research on the Application Mode of Online Course Construction Based on the "Five Optimized Integration"	623
<i>Yani Zhang, Linbo Su, Mengxi Wang, Jingke Wan, Lei Qin, Jiaoke Lv</i>	
Research on the Function of Smart Training Room Based on IOT Technology.....	631
<i>Chunxiao Song, Chao Zhang, Yanheng Zhao, Ran Fang, Kai Zhang</i>	
A Tentative Analysis of College Students' Acceptance, Difficulties and Solutions to Introducing Digital Storytelling into English Classes with Assistance of Modern Computer Technology	639
<i>Jiana Liu</i>	
Considerations on Digital Teaching in Computer Science Courses in Universities in the Post-pandemic Era - Taking Computer Operating Systems as an Example.....	646
<i>Yimin Ma</i>	
Analysis of Needs of Higher Vocational College Students for Textbooks Based on Text Mining Techniques.....	654
<i>Lijuan Xu, Yu Zhao, Zhenkui Xi, Ping Wang</i>	
Based on Student Learning Data Management Platform a Framework and Strategies of Ideological and Political Elements Discovering in Computer Algorithm Course	667
<i>Yanhong Yang, Bingjie Zhang, Zhihong Dong</i>	
Research on the Stability of School Enterprise Alliance Cooperation Considering Trust and Risk Factors	676
<i>Fengguang Tian, Zhen Liu</i>	
Based on the Principal Component Analysis and Ridge Regression Equation to Explore the Influencing Factors of English Ability in Chengdu Technological University, China.....	682
<i>Ziqian Liu, Feilong Qin, Zheng Zeng, Shilin Wang, Jie He, Ke Wang, Liuli Lu</i>	
Design and Implementation of Online Teaching System of Chinese Ancient History Based on Web Technology	693
<i>Yingzhe Chen</i>	
Research on College English MOOC System Based on Artificial Intelligence Algorithm	699
<i>Xiaowen Du</i>	

Research on Flexible Blended Learning of Traditional Chinese Medicine History Based on Modular Design in Post COVID-19	705
<i>Si-cui Wang, Zhen-yu Li</i>	
Research on the Evaluation and Evaluation Standards of College Sports Performance Based on Computer Technology	717
<i>Dawei Guo</i>	
Research on the Training System of Professional and Skilled Personnel of Information Security Application Technology in Higher Vocational Colleges Under the Background of Modern Information Technology	723
<i>Ran Fang, Yanheng Zhao, Chunxiao Song, Zhan Shi, Xudong Zhang</i>	
Peer-Review Statements	730
<i>Vishalache Balakrishnan, Intakhab Alam Khan, Mehmet Cüneyt Birkök</i>	
Teaching Reform of Polymer Material Molding and Processing Course	733
<i>Ronghua Zhang</i>	
The Design and Construction of College English Multi-modal Assisted Teaching System Based on Virtual Classroom.....	738
<i>Haiqi Liu</i>	
Analysis Report About Reform of the Classification and Evaluation Mechanism for Scientific and Technological Talents Based on Questionnaire Star Platform.....	748
<i>Bo Zhang, Liang Zhang, Xiaonan Wu</i>	
Exploration of Folk Literature and Communication Ways Under the New Media Environment in the Internet Age	761
<i>Na Zhao</i>	
Antecedents of Continuance Intention of Technology Acceptance Model (TAM) Associated with the Learning Management System (LMS) in Online-Merge-Offline (OMO) Learning	770
<i>Shasha Yu, Xuejun Zhang, Liang Wu, Bo Wang</i>	
The Design and Construction of Online Teaching Mode of Chinese Language and Literature Under the Background of Internet + Education	784
<i>Fan Zhang</i>	
Research on the Mode of Language Ability Cultivating Using Multiple Regression Analysis	789
<i>Qixiang Wu, Lin He</i>	
Evaluation of Professional Command Ability Based on Cloud Model	797
<i>Li Li, Weiqi Sun, Yumo Xia, Bin Zhou, Kun Li</i>	
Innovation and Practice of Collaborative Education Mode of Integration of Embedded Technology and Application Specialty.....	806
<i>Jianbao Zhang, Shiping Bao, Bing Luo</i>	
Analysis of the Elements of Special Education Development in the Context of Information-Based Education.....	815
<i>Xin Sun, Xiuhua Shi</i>	
Research on Teaching Aided System of Digital Music Course Based on Computer Application Technology	823
<i>Ping Zhou</i>	

Online and Offline Blended College English Classroom Teaching Based on MOOC Internet Platform.....	829
<i>Changxing Liu</i>	
Achievement Motivation and Career Maturity of High School Students: The Mediating Role of Career Self-efficacy.....	836
<i>Ziqian Chen, Lu Han</i>	
Design and Implementation of Web-Based College English Teaching Resource Sharing Platform	845
<i>Dan Zhang, Xiuhui Liang</i>	
Optimization of the Indicator System for Students' Evaluation of Teaching in Universities Based on the AHP Method	850
<i>Yingxin Jiang, Shigai Li, Yang Li</i>	
A Study on the Formation Path of Secondary School Physics Teachers' Professional Identity Based on fsQCA.....	858
<i>Dian Zhang, Hanbing Meng, Lin Cheng, Ye Xin, Xizhuang Yun</i>	
Hotspots and Trends of Higher Education Quality Assurance Research.....	869
<i>Qin Qin</i>	
Application of Smart Finance and Taxation Integration Based on Big Data in Accounting Teaching	875
<i>Tieping Wang</i>	
The Consistency Between Sustainable Development Ability and Comprehensive Quality of Higher Vocational Students Based on Survey Research.....	881
<i>Bin Yang, Yan Zhao, Zhimei Wang</i>	
Analysis on Technology of Strategic Emerging Industries in Guangdong Province: Based on Invention Patent Data from 2011 to 2020.....	889
<i>Hongshen Pang, Haiyun Xu, Xinxing Zhang</i>	
The Impact of Organizational Learning Based on ERP System on Technological Innovation.....	896
<i>Zhoucan Xu</i>	
Research on the Improvement Path of University Teachers' Information Teaching Ability Based on C-TAM-TPB Framework	908
<i>Ling Peng, Bangwen Jiang</i>	
On Cultivation of Intercultural Communication Competence in College Students' Autonomous Language Learning Via Computer Technology.....	918
<i>Nan Qin</i>	
Research on the Reform Path of "Student-Centered" General Education in Universities in China	931
<i>Xiaorong Wang</i>	
Application of Three-Dimensional Interactive Mode of Emotion Regulation Coaching to Reduce the Incidence of Unsafe Behavior Based on SPSS Analysis	939
<i>Huawei Yang, Yuanwei Li, Xiuhua Li, Rui Qi, Yuan Chen</i>	
Patriotism Education for the Teenagers from Chinese Villages: A Case Study in Huayuan No. 3 Middle School, Xiangxi, Hunan	947
<i>Jingjing Pu</i>	

Research on the Innovation of “Internet+” Classroom Instruction in Undergraduate Business School.....	960
<i>Boren Gao</i>	
Construction of Trinity Practical Education Platform of “Course Ideology and Politics, Discipline Competition and School-Enterprise Cooperative” for Software Engineering Major Based on New Engineering	970
<i>Jiujiu Yu, Jishan Zhang, Yanxing Yu, Ning Wu, Wenling Sun, Yingying Mei</i>	
Intelligent Tool-Assisted and Computer-Simulated Flat Styles in Contemporary Arts and Crafts Design.....	979
<i>Jiaqi Yang</i>	
A Quantitative Research to Coupling and Coordination for Red Tourism with Ideological and Political Education Development of College Students in Guangdong-Hong Kong-Macao Greater Bay Area	984
<i>Yanhong Liu, Xiaoqin Yang, Hongqiang Zhang, Jun Yuan, Zhen Wang</i>	
Learning Process Management Model Based on Formative Assessment.....	998
<i>Ling Huang, Xing Fan</i>	
Research on the Current Situation and Influencing Factors of College Students’ Online Learning Investment in Local Application-Oriented Universities: Take Linyi University as an Example	1010
<i>Fei Gao, Nover Keithley Mente, Donna Marie A. Oyam</i>	
Study on the Emergency Shelter Spatial Accessibility Based on Simulation of Evacuation Process.....	1018
<i>Zilin Ding, Hongjun Dong, Yajing Li, Xinqiang Yao, Hui Zhang</i>	
A Study on Reading Practice Systems in Primary School Chinese Textbooks-Based on Descriptive Statistical Analysis	1029
<i>Ziwei Tang, Zhen Kong</i>	
Innovation of Talent Quality Evaluation Based on VR Big Data	1037
<i>Liqun Gu, Meng Fang</i>	

Author Index