Exploring the Impact of Artificial Intelligence on Business Talent Development in Higher Education：A Systematic Literature Review and Research Agenda

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Appendix 1   Supplementary Explanation of Search Strategy and Process

Step 1: On January 17, 2025, search the Scopus database using key terms in the TITLE-ABS-KEY field. The search string is as follows: TITLE-ABS-KEY=((("education" OR "higher education" OR "business education" OR "management education" OR　"business schools"))　AND　(("artificial intelligence" OR "robot*" OR "machine learning" OR "computer vision" OR "neural network" OR "deep learning" OR "natural language processing" OR "big data" OR "data science" OR "data mining"))　AND　(("business" OR "management" OR "market*" OR "supply chain management" OR "commerce" OR "finance" OR "accounting" OR "econom*" OR "entrepreneurship" OR "operations management" OR "human resource management" OR "strategic management" OR "decision science" OR "logistics management" OR "risk management" OR "investment management")))，By setting the time range from January 1, 2015 to December 31, 2024, 19,524 documents were obtained. Among them, 8,744 papers of the type "Article & Article Review" were selected. After excluding non-English and retracted documents, 8,276 papers remained. By choosing the source publication type as "Journal", 8,222 papers were left. Finally, by selecting the subject categories of "Business, Management and Accounting + Decision Sciences + Economics, Econometrics and Finance", 1,210 papers were left.

Step Two: On January 17, 2025, through the Web of Science Core Collection, the Social Sciences Citation Index database was selected. Key terms were used for a search in the Topic field, with the search string and time range being exactly the same as those used in the Scopus database, resulting in 1,810 documents. Then, the type was narrowed down to Article & Article Review & Early Access and the language to English, leaving 1,735 documents. After selecting the subject categories of "Management + Operations Research Management Science + Economics + Business + Business Finance + Education Educational Research + Education Scientific Disciplines + Hospitality Leisure Sport Tourism + Communication + Education Special + Information Science Library Science + Computer Sciences Interdisciplinary + Computer Science Interdisciplinary Applications + Computer Science Artificial Intelligence + Computer Science Cybernetics + Computer Science Theory Methods + Computer Science Software Engineering", 1,009 papers remained.

Appendix 2   List of Papers on AI and Business Education in Higher Education Institutions Cited 30 Times or More from 2015 to 2024

Citat-ion	Paper Title	Authors	Affiliation (Country)	Publication Title	Methods	Module	Theme
670	Marketing analytics for data-rich environments	Wedel et al.	University of Maryland (USA)	*Journal of Marketing*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
343	Artificial intelligence and sustainable development	Goralsk et al.	University of North Carolina (USA)	*The International Journal of Management Education*	Qualitative	Teaching Content and Curriculum Design	Interdisciplinary Integration
268	The digital transformation of external audit and its impact on corporate governance	Manita et al.	Université Paris-Dauphine (France)	*Technological Forecasting and Social Change*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
140	Embracing Digitalization: Student Learning and New Technologies	Crittenden et al.	Northeastern University (USA)	*Journal of Marketing Education*	Qualitative	Paradigm Shift in Learning	Experiential Learning
139	Toward integration of Big Data, technology and information systems competencies into the accounting curriculum	Sledgian-owski et al.	Hofstra University (USA)	*Journal of Accounting Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
137	Mediating effect of use perceptions on technology readiness and adoption of artificial intelligence in accounting	Damerji et al.	Concordia University (Canada)	*Accounting Education*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
137	Redefining entrepreneurship education in the age of artificial intelligence: An explorative analysis	Vecchiarini et al.	Politecnico di Milano (Italy)	*The International Journal of Management Education*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
123	The Evolution and Future of Retailing and Retailing Education	Grewal et al.	Babson College (USA)	*Journal of Marketing Education*	Qualitative	Teaching Content and Curriculum Design	Interdisciplinary Integration
112	Blockchain technology, business data analytics, and artificial intelligence: Use in the accounting profession and ideas for inclusion into the accounting curriculum	Qasim et al.	Zayed University (United Arab Emirates)	*Journal of Emerging Technologies in Accounting*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
110	"Big Data": A new twist to accounting	Janvrin et al.	Iowa State University (USA)	*Journal of Accounting Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
79	Generative artificial intelligence (ChatGPT): Implications for management educators	Ratten et al.	La Trobe University (Australia)	*The International Journal of Management Education*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
74	Education and training for successful career in big data and business analytics	Dubey et al.	Montpellier Business School (France)	*Industrial and Commercial Training*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
72	Relevance of big data to forensic accounting practice and education	Rezaee et al.	University of Memphis (USA)	*Managerial Auditing Journal*	Quantitative	Teaching Content and Curriculum	AI-related Technologies

No.	Title	Author	Institution	Journal	Method	Category 1	Category 2
61	Let's stop trying to be "sexy" – preparing managers for the (big) data-driven business era	Carillo et al.	Toulouse Business School (France)	*Business Process Management Journal*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
55	The Impact of Generative AI on Syllabus Design and Learning	Kim et al.	Korea University (South Korea)	*Journal of Marketing Education*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
55	Artificial intelligence in business curriculum: The pedagogy and learning outcomes	Xu et al.	Bentley University (USA)	*The International Journal of Management Education*	Mixed	Paradigm Shift in Learning	Active Learning
53	ChatGPT has Aced the Test of Understanding in College Economics: Now What?	Geerling et al.	University of Virginia (USA)	*American Economist*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
53	Does higher education properly prepare graduates for the growing artificial intelligence market? Gaps' identification using text mining	Benhayoun et al.	Université Paris-Saclay (France)	*Human Systems Management*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
45	Big Data and Data Science: Opportunities and Challenges of iSchools	Song et al.	Drexel University (USA)	Journal of Data and Information Science	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
38	Team challenges: Is artificial intelligence the solution?	Webber et al.	Suffolk University (USA)	*Business Horizons*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
37	Artificial intelligence and business education: What should be taught	Sollosy et al.	Marshall University (USA)	*The International Journal of Management Education*	Qualitative	Teaching Content and Curriculum Design	Interdisciplinary Integration
37	Professional, Research, and Publishing Trends in Operations and Supply Chain Management	Simpson et al.	Monash University (Australia)	*Journal of Supply Chain Management*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
37	Application of Analytics in Supply Chain Management from Industry and Academic Perspective	Kumar,A. et al.	IMT Nagpur(India)	*FIIB Business Review*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
35	Exploring University Students' Perceptions of Generative Artificial Intelligence in Education	Țală et al.	Bucharest University of Economic Studies (Romania)	*Amfiteatru Economic*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
35	Digital Explosion and Entrepreneurship Education: Impact on Promoting Entrepreneurial Intention for Business Students	Dabbous et al.	Saint Joseph University (Lebanon)	*Journal of Risk and Financial Management*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
33	The impact of artificial intelligence and Industry 4.0 on transforming accounting and auditing practices	Abdullah et al.	Prince Sattam Bin Abdulaziz University (Saudi Arabia)	*Journal of Open Innovation: Technology, Market, and Complexity*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
31	Data science in the business environment: Insight management for an Executive MBA	Lu et al.	University of Winchester(UK)	*The International Journal of Management Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies

30	The dark side of generative artificial intelligence: A critical analysis of controversies and risks of ChatGPT	Wach et al.	Krakow University ofEconomics (Poland)	*Entrepreneurial Business and Economics Review*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
30	Artificial Intelligence: Reshaping the Accounting Profession and the Disruption to Accounting Education	Holmes et al.	Trinity University(USA)	*Journal of Emerging Technologies in Accounting*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
30	A data-driven approach to aligning academic offerings with industry needs for business and economy in Slovenia	Andono-vikj et al.	University of Ljubljana (Slovenia)	*Journal of Decision Systems*	Mixed	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education

Appendix 3   List of Other Papers Included in the Review Besides Highly Cited Papers (162 Papers)

No.	Paper Title	Authors	Publication Title	Methods	Module	Theme
1	The Future of Marketing and Marketing Education	Grewal et al.	*Journal of Marketing Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
2	Artificial intelligence and ChatGPT: Exploring Current and potential future roles in marketing education	McAlister et al.	*Journal of Marketing Communications*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
3	Future applications of generative large language models: A data-driven case study on ChatGPT	Chiarello et al.	*Technovation*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
4	Artificial intelligence in entrepreneurship education: a scoping review	Chen et al.	*Education and Training*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
5	Navigating the new frontier: the impact of artificial intelligence on students' entrepreneurial competencies	Somià et al.	*International Journal of Entrepreneurial Behaviour and Research*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
6	From ideas to ventures: building entrepreneurship knowledge with LLM, prompt engineering, and conversational agents	Thanasi-Boçe et al.	*Education and Information Technologies*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
7	Hyperbole or reality? The effect of auditors' AI education on audit report timeliness	Liao et al.	*International Review of Financial Analysis*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
8	The interdisciplinary curriculum alignment to enhance graduates' employability and universities' sustainability	Akhtar et al.	*The International Journal of Management Education*	Mixed	Teaching Content and Curriculum Design	Interdisciplinary Integration

9	Whether mismatch finds match in the digitalized era: A comparison of five types of graduates to align business education and banking jobs	Rahman et al.	*Industry and Higher Education*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
10	AI applications in business: Trends and insights using bibliometric analysis	Dissanaya ke et al.	*The International Journal of Management Education*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
11	How can we improve AI competencies for tomorrow's leaders: Insights from multi-stakeholders' interaction	Gupta et al.	*The International Journal of Management Education*	Mixed	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
12	A Constructivist Approach to Integrating AI in Marketing Education: Bridging Theory and Practice	Richter et al.	*Journal of Marketing Education*	Quantitative	Paradigm Shift in Learning	Experiential Learning
13	Integrating AI-driven marketing analytics techniques into the classroom: pedagogical strategies for enhancing student engagement and future business success	Allil	*Journal of Marketing Analytics*	Quantitative	Paradigm Shift in Learning	Experiential Learning
14	Generative Artificial Intelligence in Business Higher Education: A Focus Group Study	Huo et al.	*Journal of Global Information Management*	Quantitative	Paradigm Shift in Learning	Personalized Learning
15	Tools or Fools: Are We Educating Managers or Creating Tool-Dependent Robots?	Hyde et al.	*Journal of Management Education*	Mixed	Paradigm Shift in Learning	Experiential Learning
16	Ethical use of artificial intelligence based tools in higher education: are future business leaders ready?	Mumtaz et al.	*Education and Information Technologies*	Mixed	Teaching Content and Curriculum Design	AI Ethics and Governance
17	What drives economics students to use generative artificial intelligence?	Balytska et al.	*Knowledge and Performance Management*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
18	Poietic symbiosis or algorithmic subjugation: generative AI technology in marketing communications education	Karimova et al.	*Education and Information Technologies*	Mixed	Paradigm Shift in Learning	Technology Acceptance and Adoption
19	Can generative AI motivate management students? The role of perceived value and information literacy	Jose et al.	*The International Journal of Management Education*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
20	AI-enabled correction: A professor's journey	Daly et al.	*Innovations in Education and Teaching International*	Qualitative	Innovation in Teaching Models	Technology-Enabled Teaching Tools
21	The influence of AI text generators on critical thinking skills in UK business schools	Essien et al.	*Studies in Higher Education*	Mixed	Innovation in Teaching Models	Technology-Enabled Teaching Tools
22	Generative AI's Impact on Critical Thinking: Revisiting Bloom's Taxonomy	Gonsalves et al.	*Journal of Marketing Education*	Mixed	Innovation in Teaching Models	Technology-Enabled Teaching Tools
23	Intelligent Retrieval and Comprehension of Entrepreneurship Education Resources Based on Semantic Summarization of Knowledge Graphs	Yu et al.	*IEEE Transactions on Learning Technologies*	Quantitative	Innovation in Teaching Models	Technology-Enabled Teaching Tools
24	Artificial Intelligence in Business Education: Benefits and Tools	Surugiu et al.	*Amfiteatru Economic*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
25	Exploring the Antecedents of Artificial Intelligence Products' Usage. The Case of Business	Duffett et al.	*Amfiteatru Economic*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption

Students

26	Quantitative Evaluation of Willingness to Use Artificial Intelligence Within Business and Economic Academic Environment	Serban et al.	*Amfiteatru Economic*	Quantitative	Innovation in Teaching Models	Technology Adoption and Role Reconfiguration
27	Implementing generative AI chatbots as a decision aid for enhanced values clarification exercises in online business ethics education	Hu	*Educational Technology & Society*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
28	GitHub Copilot: Introducing the artificial intelligence tool in an information systems course	Kapakos et al.	*Issues in Information Systems*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
29	ChatGPT: reflections from the UK higher education institutions, accountancy bodies and BIG4s	Sales de Aguiar	*Accounting Research Journal*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
30	Navigating the Future: Exploring AI Adoption in Chinese Higher Education Through the Lens of Diffusion Theory	Huang et al.	*Interdisciplinary Journal of Information, Knowledge, and Management*	Quantitative	Paradigm Shift in Learning	Technology Acceptance and Adoption
31	Bridging the Gap: Applying AI and Bayesian Statistics to Traditional Educational Leadership Training	Donoso et al.	*European Public and Social Innovation Review*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
32	Future Business Workforce: Crafting a Generative AI-Centric Curriculum Today for Tomorrow's Business Education	Nithithan atchinnap at et al.	*Data Base for Advances in Information Systems*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
33	Exploring the Impact of Artificial Intelligence on Financial Accounting: Opportunities, Challenges, and Future Directions	Gatea	*Financial and Credit Activity: Problems of Theory and Practice*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
34	AI Integration for Communication Skills: A Conceptual Framework in Education and Business	Phan	*Business and Professional Communication Quarterly*	Qualitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
35	Accounting analytics data types and structures: an educational perspective	Askary et al.	*International Journal of Management and Decision Making*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
36	Generative Artificial Intelligence and the Academic Integrity of Graduation Works in Economics – Exploring Perceptions of Romanian Academia	Întorsurea nu et al.	*Economic Computation and Economic Cybernetics Studies and Research*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
37	Enhancing academic performance of business students using generative AI: An interactive-constructive-active-passive (ICAP) self-determination perspective	Gao et al.	*The International Journal of Management Education*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
38	Social Media Marketing: A Commentary on Teaching and Learning in a Dynamic Field	Parker et al.	*Journal of Marketing Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
39	The (lack of) ethics at generative AI in Business Management education and research	Matos et al.	*Revista de Administracao Mackenzie*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance

40	The big data crossroads: Accounting education and the challenge of 21st century technology	Fogarty et al.	*Journal of Accounting Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
41	ChatGPT and learning outcomes in tourism education: The role of digital literacy and individualized learning	Dalgıç et al.	*Journal of Hospitality, Leisure, Sport and Tourism Education*	Quantitative	Paradigm Shift in Learning	Experiential Learning
42	A critical review of AI in accounting education: Threat and opportunity	Ballantine et al.	*Critical Perspectives on Accounting*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
43	Analytical skills for accounting students in a data-driven job market: Australian evidence	Askary et al.	*Accounting Research Journal*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
44	Leadership training and development in the age of artificial intelligence	Sposato	*Development and Learning in Organizations*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
45	The Critique of Management: An Interview with Vincent Blok	Schomberg	*Philosophy of Management*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
46	Big data meets sustainable marketing: A new integrated curriculum for hospitality education	Horng et al.	*Journal of Hospitality, Leisure, Sport and Tourism Education*	Mixed	Paradigm Shift in Learning	Active Learning
47	Academic impressions pertaining to the "new normal" in tourism education and practice in accordance with digital technology and creativity	Gırgen et al.	*Worldwide Hospitality and Tourism Themes*	Qualitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
48	The use of artificial intelligence in modern business education: The impact on students' cognitive and communication skills in the United Kingdom	Gerlich	*IEEE Engineering Management Review*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
49	Artificial Intelligence's Capabilities, Limitations, and Impact on Accounting Education: Investigating ChatGPT's Performance on Educational Accounting Cases	Cheng et al.	*Issues in Accounting Education*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
50	Competencies Needed by Business Professionals in the AI Age: Character and Communication Lead the Way	Cardon et al.	*Business and Professional Communication Quarterly*	Quantitative	Business Practices and Competency Requirements	Soft Skills Requirements
51	Is it Worth it? How Paradoxical Tensions of Identity Shape the Readiness of Management Educators to Embrace Transformative Technologies in their Teaching	Fischer et al.	*Journal of Management Education*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
52	Evolution of the use of conversational agents in business education: Past, present, and future	Bohorquez-Lopez et al.	*Revista de Administracao Mackenzie*	Mixed	Innovation in Teaching Models	Technology Enabled Teaching Tools
53	ChatGPT in marketing: innovative pathways, decision systems, and forward perspectives	Singh et al.	*Journal of Decision Systems*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
54	Artificial intelligence and management education: A conceptualization of human-machine interaction	Clegg et al.	*The International Journal of Management Education*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
55	Generative AI and Marketing Education: What the Future Holds	Guha et al.	*Journal of Marketing*	Mixed	Business Practices and	Competency Requirements in

No	Title	Author	Journal	Method	Theme 1	Theme 2
			Education		Competency Requirements	the Field of Marketing
56	Ethics and AI Assemblages: A Heuristic Analysis of Undergraduate Business Student Perspectives	McElroy et al.	*Business and Professional Communication Quarterly*	Qualitative	Teaching Content and Curriculum Design	AI Ethics and Governance
57	Maintaining Your Marketing Competitiveness Through Marketing Innovations	Church	*Mercados y Negocios*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
58	Boosting the efficacy of green accounting for better firm performance: artificial intelligence and accounting quality as moderators	Khan et al.	*Meditari Accountancy Research*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
59	Will artificial intelligence drive the advancements in higher education? A tri-phased exploration	Kumar et al.	*Technological Forecasting and Social Change*	Mixed	Innovation in Teaching Models	Technology Innovated Teaching Methods
60	Redesign of Accounting Education to Meet the Challenges of Artificial Intelligence – A Literature Review	Brabete et al.	*Amfiteatru Economic*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
61	Marketing Educators and Artificial Intelligence: A Perspective on Productivity and Innovation	Rogers et al.	*Journal of Marketing Education*	Qualitative	Innovation in Teaching Models	Technology Adoption and Role Reconfiguration
62	The achievement of digital leadership sustainability and business performance through the implementation of business intelligence, artificial intelligence, and quality learning in private universities in Jordan	Hanandeh et al.	*Uncertain Supply Chain Management*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
63	Generative AI for scalable feedback to multimodal exercises	Jürgensmeier et al.	*International Journal of Research in Marketing*	Mixed	Innovation in Teaching Models	Technology Innovated Teaching Methods
64	Leveraging Artificial Intelligence in Virtual Education: A Decision Sciences Perspective on Challenges and Opportunities	Hashim et al.	*Operational Research in Engineering Sciences: Theory and Applications*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
65	Evolving paradigms in accounting education: A bibliometric study on the impact of information technology	Handoyo	*The International Journal of Management Education*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
66	Perspectives on How Robotic Process Automation Is Transforming Accounting and Auditing Services	Tiron-Tudor et al.	*Accounting Perspectives*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
67	Exploring the Answering Capability of Large Language Models in Addressing Complex Knowledge in Entrepreneurship Education	Lang et al.	*IEEE Transactions on Learning Technologies*	Mixed	Innovation in Teaching Models	Technology Innovated Teaching Methods
68	Integrating data analytics in teaching audit with machine learning and artificial intelligence	Prokofieva	Education and Information Technologies	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
69	Testing accountants' perceptions of the digitization of the profession and profiling the future professional	Grosu et al.	Technological Forecasting and Social Change	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance

70	Bean counter to value-adding business partner: the changing role of the accountant and situated rationality in a multinational firm	Samanthi et al.	Journal of Accounting and Organizational Change	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
71	"Hacking marketing": how do firms develop marketers' expertise and practices in a digital era?	Hafezieh et al.	Journal of Enterprise Information Management	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
72	Entrepreneurship education in the era of generative artificial intelligence	Bell et al.	Entrepreneur-ship Education	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
73	Generative Ai and The Future of Education: Ragnarök or Reformation? A Paradoxical Perspective from Management Educators	Lim Wm	The International Journal of Management Education	Qualitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
74	Business students' perceptions of Dutch higher educational institutions in preparing them for artificial intelligence work environments	Abdelwahab et al.	Industry and Higher Education	Quantitative	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
75	Empowering undergraduates through machine learning	Urtasun	*Industry and Higher Education*	Qualitative	Paradigm Shift in Learning	Experiential Learning
76	What to teach when we teach digital strategy? An exploration of the nascent field	Cepa et al.	*Long Range Planning*	Qualitative	Teaching Content and Curriculum Design	Interdisciplin-ary Integration
77	Teachers' perceptions of the potential use of educational robotics in management education	Tang et al.	*Interactive Learning Environments*	Qualitative	Innovation in Teaching Models	Technology Adoption and Role Reconfiguration
78	ChatGPT in practice: Increasing event planning efficiency through artificial intelligence	Keiper et al.	*Journal of Hospitality, Leisure, Sport and Tourism Education*	Quantitative	Innovation in Teaching Models	Technology-Enabled Teaching Tools
79	Is there a glitch in the matrix? Artificial intelligence and management education	Krammer	*Management Learning*	Qualitative	Innovation in Teaching Models	Technology-Innovated Teaching Methods
80	The ChatGPT Artificial Intelligence Chatbot: How Well Does It Answer Accounting Assessment Questions?	Wood et al.	*Issues in Accounting Education*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
81	Teaching advanced data analytics, robotic process automation, and artificial intelligence in a graduate accounting program	Ng	*Journal of Emerging Technologies in Accounting*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
82	Preparing for the New Era of Artificial Intelligence: My Experience of Teaching "Artificial Intelligence in Advertising"	Yang	*Journal of Advertising Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
83	Artificial intelligence-based large language models and integrity of exams and assignments in higher education: the case of tourism courses	Ülkü	*Tourism and Management Studies*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
84	Next generation employability and career sustainability in the hospitality industry 5.0	Hussain et al.	*Worldwide Hospitality and Tourism Themes*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
85	Logistics 4.0: Exploring Artificial Intelligence Trends in Efficient Supply Chain Management	Albarracín Vanoy	*Data and Metadata*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
86	Artificial Intelligence: A Catalyst for Entrepreneurship Education in the Baltics	Voronov et al.	*Baltic Region*	Qualitative	Teaching Content and Curriculum	AI-related Technologies

87	Accuracy and detection of student use of ChatGPT in business analytics courses	Laker et al.	*Issues in Information Systems*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
88	Analysis of entrepreneurial skills among the students of higher education system in India	Solanki et al.	*International Journal of Business and Globalisation*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
89	Empowering Business Students: The Rise of Experiential Learning, Collaborative Mentoring, and Data Science	Lei et al.	Rutgers Business Review	Qualitative	Paradigm Shift in Learning	Experiential Learning
90	A Systematic Review of Data Analytics Job Requirements and Online-Courses	Almgerbi et al.	*Journal of Computer Information Systems*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
91	Human resource management practices in higher education: a literature review using co-word analysis	Nguyen et al.	*International Journal of Management in Education*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
92	Hospitality and Tourism Higher Education in the Post-COVID Era: Is It Time to Change?	Xu et al.	*Journal of Hospitality and Tourism Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
93	A multivariate analysis of undergraduate business schools' curricula in Turkey	Sarıgül et al.	*Journal of Education for Business*	Quantitative	Teaching Content and Curriculum Design	Interdisciplinary Integration
94	Objectives and curriculum for a graduate business analytics capstone: Reflections from practice	Anand et al.	*Decision Sciences Journal of Innovative Education*	Qualitative	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
95	Management accounting and the concepts of exploratory data analysis and unsupervised machine learning: a literature study and future directions	Nielsen	*Journal of Accounting and Organizational Change*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
96	Embracing Emerging Technologies and Artificial Intelligence into the Undergraduate Accounting Curriculum: Reflections from the UAE	Qasim et al.	*Journal of Emerging Technologies in Accounting*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
97	Big Data Analytics Knowledge and Skills: What You Need as a 21st Century Accounting Graduate	Zin et al.	*Management and Accounting Review*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
98	Machines augmenting entrepreneurs: Opportunities (and threats) at the Nexus of artificial intelligence and entrepreneurship	Shepherd et al.	*Journal of Business Venturing*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
99	The Impact of Artificial Intelligence on Expertise Development: Implications for HRD	Ardichvili et al.	*Advances in Developing Human Resources*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
100	The product life cycle revisited: an integrative review and research agenda	Iveson et al.	*European Journal of Marketing*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
101	Computer-based business games in higher education: A proposal of a gamified learning framework	Grijalvo et al.	*Technological Forecasting and Social Change*	Mixed	Innovation in Teaching Models	Technology Innovated Teaching Methods

102	How to Teach a 14-Week Robotic Process Automation (RPA) Course for Accounting Students	Zhang et al.	*Issues in Accounting Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
103	Technology driven change in the retail sector: Implications for higher education	Woods et al.	*Industry and Higher Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
104	Mentorrd EduTech: charting new territories through social media marketing	Senecha et al.	*Emerald Emerging Markets Case Studies*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
105	Improving Quality of Online Teaching Finance and Business Management Using Artificial Intelligence and Backward Design	Moşteanu et al.	*Quality - Access to Success*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
106	"Big results require big ambitions": big data, data analytics and accounting in masters courses	Mcbride et al.	*Accounting Research Journal*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
107	A Perspective on the Potential of Chinese Business Schools: A Call for Greater Attention to Context, Differentiation, and Developing an Indigenous Model	Fey	*Management and Organization Review*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
108	Social Media Analytics and its Applications in Marketing	Moon et al.	*Foundations and Trends in Marketing*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
109	Doing more with less: Using AI-based Big Interview to combine exam preparation and interview practice	Fulk et al.	*Issues in Information Systems*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
110	Research on Teaching Resource Reform of Innovation and Entrepreneurship Education for Business Administration Specialty	Xu et al.	*Educational Administration: Theory and Practice*	Mixed	Innovation in Teaching Models	Technology Enabled Teaching Tools
111	The evolution of accounting technology education: Analytics to STEM	Moore et al.	*Journal of Education for Business*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
112	Design requirements of a modern business Master's degree course: perspectives of industry practitioners	Miah et al.	*Education and Information Technologies*	Qualitative	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
113	Seven principles to ensure future-ready accounting graduates – a model for future research and practice	De Villiers et al.	*Meditari Accountancy Research*	Qualitative	Business Practices and Competency Requirements	Soft Skills Requirements
114	A data-driven approach for discovery of the latest research trends in higher education for business by leveraging advanced technology and big data	Park et al.	*Journal of Education for Business*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
115	The strategic transformation of accounting into a learned profession	Aldredge et al.	*Industry and Higher Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
116	Analytics Capability in Marketing Education: A Practice-Informed Model	Kurtzke et al.	*Journal of Marketing Education*	Qualitative	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
117	A Review of Big Data Research in Accounting	Aboagye-Otchere et al.	*Intelligent Systems in Accounting, Finance and Management*	Mixed	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance

118	Is the Revolution of Technologies Transforming Human Resources?	Nawaz et al.	*Journal of Management Information and Decision Sciences*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
119	Who owns and cares about the data? A method for identifying and gathering information for business research investigations	Cullen et al.	*Business Information Review*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
120	Developing institutional skills for addressing big data: Experiences in implementation of AACSB Standard 5	Sarkar et al.	*Journal of Accounting Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
121	Developing talents vis-à-vis fourth industrial revolution	Anshari et al.	*International Journal of Asian Business and Information Management*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
122	Big data applications in accounting: Insights for higher education curriculum planning	Hoodlebrink et al.	*Issues in Information Systems*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
123	Business methodology for the application in university environments of predictive machine learning models based on an ethical taxonomy of the student's digital twin	Gallastegui et al.	*Administrative Sciences*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
124	Industry 4.0 technologies in tourism education: Nurturing students to think with technology	Bilotta et al.	*Journal of Hospitality, Leisure, Sport and Tourism Education*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
125	Review of Data Analytic Teaching Cases, Have We Covered Enough?	Raschke et al.	*Journal of Emerging Technologies in Accounting*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
126	A framework for auditor data literacy: A normative position	Appelbaum et al.	*Accounting Horizons*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
127	EmpoderaData: Sharing a successful work-placement data skills training model within Latin America, to develop capacity to deliver the SDGs	Carter et al.	*Statistical Journal of the IAOS*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
128	Dual roles of educational robotics in management education: Pedagogical means and learning outcomes	Tang et al.	*Education and Information Technologies*	Qualitative	Innovation in Teaching Models	Technology-Enabled Teaching Tools
129	A design-based research approach for developing data-focussed business curricula	Miah et al.	*Education and Information Technologies*	Qualitative	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
130	Delivering business analytics competencies and skills: A supply side assessment	Seal et al.	*INFORMS Journal on Applied Analytics*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
131	Artificial intelligence products reshape accounting: time to re-train	Shaffer et al.	*Development and Learning in Organizations*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
132	Emerging Technology: Introducing Tableau to CIS and Non-CIS Majors in a Core Business Class	Kapakos et al.	*Issues in Information Systems*	Mixed	Teaching Content and Curriculum	AI-related Technologies

					Design
133	Effective learning of tax regulations using different chatbot techniques	Mellado-Silva et al.	*Advances in Science, Technology and Engineering Systems*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
134	Redesigning database management course syllabus: A predictive approach using data mining technique	Funcion	*International Journal of Scientific and Technology Research*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
135	Data analytics research-informed teaching in a digital technologies curriculum	Lu	*INFORMS Transactions on Education*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
136	A systematic review on business analytics	Yin et al.	*Journal of Industrial Engineering and Management*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
137	Coronavirus (Covid-19) and the entrepreneurship education community	Ratten	*Journal of Enterprising Communities*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
138	Helping Business Students Acquire the Skills Needed for a Career in Analytics: A Comprehensive Industry Assessment of Entry-Level Requirements	Stanton et al.	*Decision Sciences Journal of Innovative Education*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
139	Antecedents of entrepreneurial intentions in smart city of Neom Saudi Arabia: Does the entrepreneurial education on artificial intelligence matter?	Nuseir et al.	*Cogent Business and Management*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
140	The 3S process: A framework for teaching AI strategy in business education	Bhalla	*Technology Innovation Management Review*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
141	Introduction of artificial intelligence tools into the training methods of entrepreneurship activities	Tkachenko et al.	*Journal of Entrepreneurship Education*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
142	Customer relationship management technology: bridging the gap between marketing education and practice	Harrison et al.	*Journal of Marketing Analytics*	Quantitative	Teaching Content and Curriculum Design	AI-related Technologies
143	Building a culture of business analytics: a marketing analytics exercise	Haywood et al.	*International Journal of Educational Management*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
144	Potential influence of artificial intelligence on the managerial skills of supply chain executives	Bălan	*Quality - Access to Success*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
145	Marketing research education in the Big Data era	Paas	*International Journal of Market Research*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
146	Listening skills: Accountancy educators in retreat?	Reddrop et al.	*Australasian Accounting, Business and Finance Journal*	Qualitative	Business Practices and Competency Requirements	Soft Skills Requirements
147	How to turn managers into data-driven decision makers Measuring attitudes towards business analytics	Carillo et al.	*Business Process Management Journal*	Quantitative	Innovation in Teaching Models	Technology Innovated Teaching Methods

148	Impact of Data Analysis on the Business Administration Education Reform in Teaching Style	Yang et al.	*Educational Sciences-Theory & Practice*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
149	Model Innovation and Teaching Effect Evaluation of Accounting Teaching in Higher Vocational Colleges in the Era of Big Data	Zhang	*Educational Sciences-Theory & Practice*	Qualitative	Innovation in Teaching Models	Technology Innovated Teaching Methods
150	How data analytics is changing entrepreneurial opportunities?	Sedkaoui	*International Journal of Innovation Science*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
151	Lessons from the Great Recession: A digital recovery rewards digital skills in emerging fields	Fitzgerald et al.	*Industry and Higher Education*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
152	Application of time series analyses in big data: Practical, research, and education implications	Rezaee et al.	*Journal of Emerging Technologies in Accounting*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
153	Human resources for Big Data professions: A systematic classification of job roles and required skill sets	De Mauro et al.	*Information Processing & Management*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
154	Building an Educational Platform Using NLP: A Case Study in Teaching Finance	Montalvo et al.	*Journal of Universal Computer Science*	Quantitative	Innovation in Teaching Models	Technology Enabled Teaching Tools
155	The Current Landscape of Teaching Analytics to Business Students at Institutions of Higher Education: Who is Teaching What?	Phelps et al.	*American Statistician*	Mixed	Teaching Content and Curriculum Design	AI-related Technologies
156	Teaching HRM in contemporary hospitality management: a case study drawing on HR analytics and big data analysis	Martin-Rios et al.	*Journal of Teaching in Travel and Tourism*	Qualitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
157	Determining the value of undergraduate business programs from market vs academic perspectives	Fisher et al.	*International Journal of Educational Management*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
158	Scientific training in the era of big data: A new pedagogy for graduate education	Aikat et al.	*Big Data*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
159	Implications of the Data Revolution for Statistics Education	Ridgway et al.	*International Statistical Review*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
160	Business analytics programs offered by AACSB-accredited U.S. colleges of business: A web mining study	Zhao et al.	*Journal of Education for Business*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
161	Big data analytics the next big learning opportunity	Henry et al.	*Journal of Management Information and Decision Sciences*	Qualitative	Teaching Content and Curriculum Design	AI-related Technologies
162	Data science, predictive analytics, and big data in supply chain management: Current state and future potential	Schoen-herr et al.	*Journal of Business Logistics*	Quantitative	Business Practices and Competency Requirements	Competency Requirements in the Field of Management

Appendix 4   List of Papers with Co-citation Frequency of 3 Times or More (Excluding Those Overlapping with Highly Cited Papers) Exported by Citespace

No.	Count	Cited References	Module	Theme
1	5	Baidoo-Anu D (2023). Education in the Era of Generative Artificial Intelligence (Ai): Understanding the Potential Benefits of Chatgpt in Promoting Teaching and Learning @ Journal of AI	Paradigm Shift in Learning	Personalized Learning
2	5	Chalmers D (2021). Artificial Intelligence and Entrepreneurship: Implications for Venture Creation in the Fourth Industrial Revolution @ Entrepreneurship Theory and Practice	Business Practices and Competency Requirements	Competency Requirements in the Field of Management
3	5	Peres R (2023). On Chatgpt and Beyond: How Generative Artificial Intelligence May Affect Research Teaching and Practice @ International Journal of Research in Marketing	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
4	4	Appelbaum D (2017). Big Data and Analytics in the Modern Audit Engagement: Research Needs @ Auditing: A Journal of Practice & Theory	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
5	4	Chan Cky (2023). A Comprehensive AI Policy Education Framework for University Teaching and Learning @ International Journal of Educational Technology in Higher Education	Teaching Content and Curriculum Design	AI Ethics and Governance
6	4	Cooper La (2019). Robotic Process Automation in Public Accounting @ Accounting Horizons	Business Practice and Talent Demand	Competency Requirements in the Field of Accounting and Finance
7	4	Kokina J (2017). The Emergence of Artificial Intelligence: How Automationis Changing Auditing @ Journal of Emerging Technologies in Accounting	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
8	4	Shoufan A (2023). Exploring Students' Perceptions of Chatgpt: Thematic Analysis and Follow-Up Survey @ IEEE Access	Innovation in Teaching Models	Technology-Enabled Teaching Tools
9	3	Cope B (2020). Artificial Intelligence for Education: Knowledge and Its Assessment in Ai-Enabled Learning Ecologies @ Educational Philosophy and Theory	Innovation in Teaching Models	Technology-Enabled Teaching Tools
10	3	Chatterjee S (2020). Adoption of Artificial Intelligence in Higher Education: a Quantitative Analysis Using Structural Equation Modelling @ Education and Information Technologies	Paradigm Shift in Learning	Technology Acceptance and Adoption
11	3	Al-Htaybat K (2018). Educating Digital Natives for the Future: Accounting Educators' Evaluation of the Accounting Curriculum @ Accounting Education	Teaching Content and Curriculum Design	Integration of Industry, Research, and Education
12	3	Elbanna S (2024). Exploring the Integration of Chatgpt in Education: Adapting for the Future @ Management & Sustainability: an Arab Review	Paradigm Shift in Learning	Personalized Learning
13	3	Appelbaum D (2017). Impact of Business Analytics and Enterprise Systems On Managerial Accounting @ International Journal of Accounting Information Systems	Business Practices and Competency Requirements	Competency Requirements in the Field of Accounting and Finance
14	3	Kadaruddin K (2023). Empowering Education Through Generative Ai: Innovative Instructional Strategies for Tomorrow'S Learners @ International Journal of Business	Paradigm Shift in Learning	Personalized Learning
15	3	Chen L (2020). Artificial Intelligence in Education: a Review @	Paradigm Shift	Personalized

		IEEE Access	in Learning	Learning
16	3	Davenport T (2020). How Artificial Intelligence Will Change the Future of Marketing @ Journal of the Academy of Marketing Science	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
17	3	Cockcroft S (2018). Big Data Opportunities for Accounting and Finance Practice and Research @ Australian Accounting Review	Business Practice and Talent Demand	Competency Requirements in the Field of Accounting and Finance
18	3	Cooper G (2023). Examining Science Education in Chatgpt: an Exploratory Study of Generative Artificial Intelligence @ Journal of Science Education and Technology	Innovation in Teaching Models	Technology-Enabled Teaching Tools
19	3	Dwivedi Yk (2023). "So What If Chatgpt Wrote It?" Multidisciplinary Perspectives On Opportunities @ Challenges and Implications of Generative Conversational Ai for Research	Business Practices and Competency Requirements	Competency Requirements in the Field of Marketing
20	3	Ray Pp (2023). Chatgpt: a Comprehensive Review On Background Applications Key Challenges Bias Ethics Limitations and Future Scope @ Internet of Things and Cyber-Physical Systems	Innovation in Teaching Models	Technology-Enabled Teaching Tools
21	3	Tlili a (2023). What If the Devil Is My Guardian Angel: Chatgpt As a Case Study of Using Chatbots in Education @ Smart Learning Environments	Innovation in Teaching Models	Technology-Enabled Teaching Tools
22	3	Rudolph J (2023). Chatgpt: Bullshit Spewer Or the End of Traditional Assessments in Higher Education? @ Journal of Applied Learning and Teaching	Innovation in Teaching Models	Technology-Innovated Teaching Methods
23	3	Kasneci E (2023). Chatgpt for Good? On Opportunities and Challenges of Large Language Models for Education @ Learning and Individual Differences	Paradigm Shift in Learning	Personalized Learning
24	3	Eulerich M (2023). Can Artificial Intelligence Pass Accounting Certification Exams? Chatgpt: Cpa @ Cma	Innovation in Teaching Models	Technology-Innovated Teaching Methods
25	3	Firat M (2023). How Chat Gpt Can Transform Autodidactic Experiences and Open Education?	Paradigm Shift in Learning	Experiential Learning
26	3	Fuchs K (2023). Exploring the Opportunities and Challenges of Nlp Models in Higher Education: Is Chat Gpt a Blessing Or a Curse? @ Frontiers in Education	Paradigm Shift in Learning	Personalized Learning
27	3	Obschonka M (2020). Artificial Intelligence and Big Data in Entrepreneurship: a New Era Has Begun @ Small Business Economics	Business Practices and Competency Requirements	Competency Requirements in the Field of Entrepreneur-ship
28	3	Van Dis Ea (2023). Chatgpt: Five Priorities for Research @ Nature	Innovation in Teaching Models	Technology-Innovated Teaching Methods