PAPER INFORMATION							CLASSIFICATION SCHEME																		
							Business Model Component																		
							Value Proposition			Value Delivery		Value Creation			Value Capture		Business Value								
No	Source Title	Document Type	Year	DOI	Authors	Article Title	Enhanced	Extended	Redefined	Customer Segments	Channels	Customer Relationships	Key Resources	Key Activities	Key Partnerships	Revenue Streams	Cost Structure	Process automation & improvement	Business insight	Stakeholder engagement	AI Function	Network/ Ecosystem view	Service view	Sustainability view	Organization type	Industry	Research type	Research Method
1	MEASURING BUSINESS EXCELLENCE	Article; Early Access	2021	10.1108/MBE-12-2020-0161	Aloini, D; Latronico, L; Pellegrini, L	The impact of digital technologies on business models. Insights from the space industry	X	X				X	X	X	X		X	X			Mix		X			Space	Empirical	Case study
2	JOURNAL OF BUSINESS RESEARCH	Article	2021	10.1016/j.jbusres.2020.02.045	Alshawaaf, N; Lee, SH	Business model innovation through digitisation in social purpose organisations: A comparative analysis of Tate Modern and Pompidou Centre	X			X		X	X			X	X			X	Robotics					Services	Empirical	Case study
3	JOURNAL OF PROFESSIONS AND ORGANIZATION	Article	2020	10.1093/jpo/joaa001	Armour, J; Sako, M	AI-enabled business models in legal services: from traditional law firms to next-generation law companies?							X			X	X	X			ML				Incumbent	Legal	Conceptual	
4	INTERNATIONAL CONFERENCE ON EDUCATION INNOVATION AND ECONOMIC MANAGEMENT (EIEM 2017)	Proceedings Paper	2017		Bai, GH	Research on the Application and Influence of Auditing Artificial Intelligence	X					X	X					X	X		General					Audit / Legal	Empirical	
5	IFAC PAPERSONLINE	Proceedings Paper	2019	10.1016/j.ifacol.2019.12.471	Bakalova, M; Minina, R	OMNIBOT: A Robotic Verticalization Mobility System for People with Disabilities					X	X				X		X			Robotics					Healthcare	Empirical	
6	JOURNAL OF BUSINESS & INDUSTRIAL MARKETING	Article; Early Access	2020	10.1108/JBIM-01-2020-0051	Battisti, S; Brem, A	Digital entrepreneurs in technology-based spinoffs: an analysis of hybrid value creation in retail public-private partnerships to tackle showrooming		X			X	X			X					X	General	X			Entrepreneur	Retail	Empirical	Case study
7	Business & Information Systems Engineering	Proceedings	2018	10.1007/s12599-018-0526-4	Beverungen D; Luttenberg H; Wolf V	Recombinant Service Systems Engineering	X	X					X	X				X			ML		X			Manufacturing	Empirical	Case study
8	JOURNAL OF FINANCIAL STABILITY	Article	2021	10.1016/j.jfs.2020.100836	Boot, A; Hoffmann, P; Laeven, L; Ratnovski, L	Fintech: what's old, what's new?					X			X					X		General	X				Finance	Conceptual	
9	JOURNAL OF SOFTWARE-EVOLUTION AND PROCESS	Article	2021	10.1002/smr.2333	Bosch, J; Olsson, HH	Digital for real: A multicase study on the digital transformation of companies in the embedded systems domain		X		X			X		X				X		ML	X	X			Manufacturing	Empirical	Case study
10	7TH INDUSTRIAL PRODUCT-SERVICE SYSTEMS CONFERENCE - IPSS, INDUSTRY TRANSFORMATION FOR SUSTAINABILITY AND BUSINESS	Proceedings Paper	2015	10.1016/j.procir.2015.02.154	Brad, S; Murar, M	Employing smart units and servitization towards reconfigurability of manufacturing processes	X						X	X	X				X		General	X	X			Manufacturing	Empirical	
11	JOURNAL OF BUSINESS RESEARCH	Article	2021	10.1016/j.jbusres.2021.01.016	Burstrom, T; Parida, V; Lahti, T; Wincent, J	AI-enabled business-model innovation and transformation in industrial ecosystems: A framework, model and outline for further research	X			X		X			X	X	X		X		ML; Expert Systems	X			Incumbent	Manufacturing	Empirical	Interview
12	SUSTAINABILITY	Article	2021	10.3390/su13116348	Cetin, S; De Wolf, C; Bocken, N	Circular Digital Built Environment: An Emerging Framework	X							X				X			ML; Vision					Construction	Conceptual	Interview
13	JOURNAL OF HOSPITALITY MARKETING & MANAGEMENT	Article; Early Access	2021	10.1080/19368623.2021.1916669	Chen, SH; Tzeng, SY; Tham, A; Chu, PX	Hospitality services in the post COVID-19 era: Are we ready for high-tech and no touch service delivery in smart hotels?	X													X	Robotics					Services	Empirical	
14	INTERNATIONAL JOURNAL OF OPERATIONS & PRODUCTION MANAGEMENT	Article	2021	10.1108/IJOPM-08-2020-0544	Chen, YH; Visnjic, I; Parida, V; Zhang, ZG	On the road to digital servitization - The (dis)continuous interplay between business model and digital technology	X								X						General	X	X		Incumbent	Manufacturing	Empirical	Case study
15	TECHNOLOGY IN SOCIETY	Article	2021	10.1016/j.techsoc.2020.101461	Coskun-Setirek, A; Tanrikulu, Z	Digital innovations-driven business model regeneration: A process model	X						X	X	X			X			Robotics					Construction	Empirical	
16	SENSORS	Article	2020	10.3390/s20195499	Costa, FS; Nassar, SM; Gusmeroli, S; Schultz, R; Conceicao, AGS; Xavier, M; Hessel, F; Dantas, MAR	FASTEN IIoT: An Open Real-Time Platform for Vertical, Horizontal and End-To-End Integration	X				X	X					X	X	X		General	X				Manufacturing	Empirical	Case study
17	TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE	Article	2020	10.1016/j.techfore.2020.120092	Culot, G; Orzes, G; Sartor, M; Nassimbeni, G	The future of manufacturing: A Delphi-based scenario analysis on Industry 4.0		X			X	X			X						ML; Robotics	X	X			Manufacturing	Empirical	Survey
18	2019 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE: APPLICATIONS AND INNOVATIONS (IC-AIAI 2019)	Proceedings Paper	2019	10.1109/IC-AIAI48757.2019.00014	Damnjanovic, V	Entry Market Strategy for Weaver Chatbot using the Digital B2B model	X					X								X	NLP					Online services	Empirical	
19	AUTOMATION IN CONSTRUCTION	Article	2021	10.1016/j.autcon.2020.103481	Davis, P; Aziz, F; Newaz, MT; Sher, W; Simon, L	The classification of construction waste material using a deep convolutional neural network	X								X		X	X	X		ML					Construction	Empirical	Experiment
20	JOURNAL OF BUSINESS RESEARCH	Review	2020	10.1016/j.jbusres.2020.08.019	Di Vaio, A; Palladino, R; Hassan, R; Escobar, O	Artificial intelligence and business models in the sustainable development goals perspective: A systematic literature review	X				X			X	X			X	X		ML			X		General	LR	
21	JOURNAL OF MARKETING MANAGEMENT	Editorial Material	2017	10.1080/0267257X.2016.1248041	Ehret, M; Wirtz, J	Unlocking value from machines: business models and the industrial internet of things	X	X				X		X				X			ML	X	X			Manufacturing	Conceptual	
22	GENEVA PAPERS ON RISK AND INSURANCE-ISSUES AND PRACTICE	Article; Early Access	2020	10.1057/s41288-020-00201-7	Eling, M; Nuessle, D; Staubli, J	The impact of artificial intelligence along the insurance value chain and on the insurability of risks	X				X	X			X	X	X	X			General	X				Insurance	LR	
23	SKELETAL RADIOLOGY	Review; Early Access	2018	10.1007/s00256-021-03802-y	Fritz, J; Kijowski, R; Recht, MP	Artificial intelligence in musculoskeletal imaging: a perspective on value propositions, clinical use, and obstacles	X										X	X			ML			X		Healthcare	Conceptual	
24	CALIFORNIA MANAGEMENT REVIEW	Article	2019	10.1177/0008125618811931	Garbuio, M; Lin, N	Artificial Intelligence as a Growth Engine for Health Care Startups: Emerging Business Models	X						X	X		X	X	X			General				Entrepreneur	Health	Conceptual	
25	INDUSTRIAL MARKETING MANAGEMENT	Article	2020	10.1016/j.indmarman.2020.10.006	Gebauer, H; Arzt, A; Kohtamaki, M; Lamprecht, C; Parida, V; Witell, L; Wortmann, F	How to convert digital offerings into revenue enhancement - Conceptualizing business model dynamics through explorative case studies		X				X			X	X				X	General	X	X			Manufacturing	Empirical	Case study
26	STRATEGICA: PREPARING FOR TOMORROW, TODAY	Proceedings Paper	2020		Gruia, LA; Bibu, N; Roja, A	DIGITAL TRANSFORMATION GENERATES A NEW BUSINESS PARADIGM: HUMAN-MADE IN THE AGE OF ARTIFICIAL INTELLIGENCE															General					General	Conceptual	
27	JOURNAL OF BUSINESS RESEARCH	Article	2021	10.1016/j.jbusres.2021.04.015	Haftor, DM; Climent, RC; Lundstrom, JE	How machine learning activates data network effects in business models: Theory advancement through an industrial case of promoting ecological sustainability	X					X	X		X		X	X		X	ML	X	X		SME	Manufacturing	Empirical	Case study
28	ICSLT 2019: PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON E-SOCIETY, E-LEARNING AND E-TECHNOLOGIES	Proceedings Paper	2019	10.1145/3312714.3312728	Hajiheydari, N; Talafidaryani, M; Khabiri, S	IoT Big Data Value Map: How to Generate Value from IoT Data	X	X										X			General					General	Conceptual	
29	INTERNATIONAL JOURNAL OF ENVIRONMMENTAL RESEARCH AND PUBLIC HEALTH	Article	2021	10.3390/ijerph18020811	Ilan, Y	Improving Global Healthcare and Reducing Costs Using Second-Generation Artificial Intelligence-Based Digital Pills: A Market Disruptor	X	X				X			X		X	X		X	General					Healthcare	Empirical	DS & Tool Design
30	BUSINESS HORIZONS	Article	2020	10.1016/j.bushor.2020.01.004	Jin, BE; Shin, DC	Changing the game to compete: Innovations in the fashion retail industry from the disruptive business model		X			X	X					X		X	X	General				Incumbent	Retail	Empirical	Case study
31	SUSTAINABILITY	Article	2021	10.3390/su13094839	Kikuchi, S; Kadama, K; Sengoku, S	Characteristics and Classification of Technology Sector Companies in Digital Health for Diabetes		X		X					X						ML	X				Healthcare	Empirical	Descriptive
32	Journal of the Association for Information Systems		2021	10.17705/1jais.00667	Knote, R; Janson, A; Sollner, M; Leimeister JM	Value Co-Creation in Smart Services: A Functional Affordances Perspective on Smart Personal Assistants	X	X	X			X		X						X	ML					Services	Empirical	Interview
33	INTERNATIONAL JOURNAL OF ENTREPRENEURSHIP AND INNOVATION	Article	2021	10.1177/1465750320927359	Kruger, S; Steyn, AA	A conceptual model of entrepreneurial competencies needed to utilise technologies of Industry 4.0	X			X						X		X	X		ML			X	Entrepreneur	General	Empirical	Interview
34	JOURNAL OF CLEANER PRODUCTION	Review	2018	10.1016/j.jclepro.2018.04.212	Kuo, TC; Smith, S	A systematic review of technologies involving eco-innovation for enterprises moving towards sustainability									X			X			General	X				General	LR	
35	2018 32ND INTERNATIONAL CONFERENCE ON INFORMATION NETWORKING (ICOIN)	Proceedings Paper	2018		Lee, K; Ha, N	AI Platform to Accelerate API Economy and Ecosystem					X	X			X				X		ML	X	X			Services	Conceptual	Descriptive
36	INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	Article	2020	10.1080/00207543.2019.1677961	Liu, C; Feng, YF; Lin, DT; Wu, L; Guo, M	Iot based laundry services: an application of big data analytics, intelligent logistics management, and machine learning techniques	X			X							X	X			ML				Entrepreneur	Online services	Conceptual	
37	COMPUTERS & INDUSTRIAL ENGINEERING	Article	2021	10.1016/j.cie.2021.107193	Liu, C; Luosang, RQ; Yao, X; Su, LT	An integrated intelligent manufacturing model based on scheduling and reinforced learning algorithms	X	X									X	X		X	ML					Services	Empirical	DS & Tool Design
38	INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING	Article	2019	10.1080/0951192X.2019.1599434	Liu, C; Zhou, YZ; Cen, YT; Lin, DT	(Smart CPS) Integrated application in intelligent production and logistics management: technical architectures concepts and business model analyses for the customised facial masks manufacturing										X	X				General					General	Empirical	
39	BIG DATA & SOCIETY	Article	2021	10.1177/2053951721047734	Luitse, D; Denkena, W	The great transformer: Examining the role of large language models in the political economy of AI			X		X	X			X	X					NLP	X				Online services	Conceptual	
40	MANAGEMENT AND ORGANIZATION REVIEW	Article	2021	10.1017/mor.2020.69	Ma, YL; Hu, Y	Business Model Innovation and Experimentation in Transforming Economies: ByteDance and TikTok		X								X				X	Expert Systems; Vision				Entrepreneur	Online services	Empirical	Case study
41	GEOMEDIA	Article	2019		Mozzetti, C; DeVitis, A	Low Altitude Airspace: how Enterprises discover a new business dimension	X	X						X	X			X			ML; Robotics; Vision	X				Space	Empirical	DS & Tool Design
42	MIS Quarterly Executive		2016		Muller, O; Junglas, I; Debortoli, S; vom Brocke, J	Using Text Analytics to Derive Customer Service Management Benefits from Unstructured Data	X					X	X	X						X	NLP					Services	Empirical	Case study
43	TECHNOLOGY IN SOCIETY	Article	2017	10.1016/j.techsoc.2017.03.005	Naveed, K; Watanabe, C; Neittaanmaki, P	Co-evolution between streaming and live music leads a way to the sustainable growth of music industry - Lessons from the US experiences	X				X	X			X						ML					General	Conceptual	Descriptive
44	10TH CIRP CONFERENCE ON INDUSTRIAL PRODUCT-SERVICE SYSTEMS, IPS2 2018	Proceedings Paper	2018	10.1016/j.procir.2018.03.299	Olivotti, D; Dreyer, S; Kotsch, P; Herder, CF; Breitner, MH; Aurich, JC	Realizing availability-oriented business models in the capital goods industry	X					X			X		X	X			ML					Manufacturing	Empirical	Case study
45	2020 IEEE INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND VIRTUAL REALITY (AIVR 2020)	Proceedings Paper	2020	10.1109/AIVR50618.2020.00075	Palmieri, S; Righi, A; Bisson, M; Ianniello, A	Training with a world champion: augmented reality applications in sport Design-led research		X	X				X		X	X			X		ML; Vision	X				Services	Conceptual	
46	JOURNAL OF RESEARCH IN INTERACTIVE MARKETING	Article	2021	10.1108/JRIM-10-2020-0214	Payne, EHM; Peltier, J; Barger, VA	Enhancing the value co-creation process: artificial intelligence and mobile banking service platforms	X					X								X	NLP					Finance	Empirical	Descriptive
47	TECHNOLOGY INNOVATION MANAGEMENT REVIEW	Article	2019	22215/timreview/1287	Prem, E	Artificial Intelligence for Innovation in Austria	X					X	X	X		X	X	X			Mix					Manufacturing	Empirical	Interview
48	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON BUSINESS EXCELLENCE	Proceedings Paper	2020	10.2478/picbe-2020-0003	Puskas-Tompos, A	Energy Trading Perspectives in the Digital Era		X				X		X				X			ML			X		Energy	Empirical	Interview
49	EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING	Article	2021	10.1186/s13638-021-02025-y	Qu, SP; Shi, HW; Zhao, HH; Yu, L; Yu, YB	Research on enterprise business model and technology innovation based on artificial intelligence										X	X				General				SME	General	Empirical	Survey
50	SENSORS	Article	2019	10.3390/s19102338	Qu, YJ; Ming, XG; Qiu, SQ; Zheng, MK; Hou, ZT	An Integrative Framework for Online Prognostic and Health Management Using Internet of Things and Convolutional Neural Network	X											X	X		General					Health	Empirical	Case study
51	CENTRAL EUROPEAN BUSINESS REVIEW	Article	2020	10.18267/j.cebr.234	Qvist-Sorensen, P	APPLYING IIOT AND AI - OPPORTUNITIES, REQUIREMENTS AND CHALLENGES FOR INDUSTRIAL MACHINE AND EQUIPMENT MANUFACTURERS TO EXPAND THEIR SERVICES				X			X		X						ML		X			Manufacturing	Conceptual	
52	INTERNATIONAL JOURNAL OF EDUCATIONAL TECHNOLOGY IN HIGHER EDUCATION	Article	2020	10.1186/s41239-020-00193-3	Renz, A; Hilbig, R	Prerequisites for artificial intelligence in further education: identification of drivers, barriers, and business models of educational technology companies	X	X											X		ML					Education	Empirical	Interview
53	PROCEEDINGS OF THE 2ND ACM SIGSOFT INTERNATIONAL WORKSHOP ON SOFTWARE-INTENSIVE BUSINESS: START-UPS, PLATFORMS, AND ECOSYSTEMS (IWSIB '19)	Proceedings Paper	2019	10.1145/3340481.3342736	Rusthollkarhu, S; Aarikka-Stenroos, L	The Effects of AI-Human-Interaction to Value Creation in Multi-actor Systems: How AI Shapes Digital B2B Sales					X	X	X		X						General	X				General	Conceptual	
54	WASTE MANAGEMENT	Review	2019	10.1016/j.wasman.2019.06.035	Saro, R; Curtis, A; Kandilbauer, L; Khodier, K; Lorber, KE; Pomberger, R	Digitalisation and intelligent robotics in value chain of circular economy oriented waste management - A review		X										X			ML					General	LR	
55	JOURNAL OF BUSINESS RESEARCH	Article	2020	10.1016/j.jbusres.2020.01.009	Sjodin, D; Parida, V; Kohtamaki, M; Wincent, J	An agile co-creation process for digital servitization: A micro-service innovation approach		X			X	X			X	X		X			General		X			General	Empirical	Case study
56	JOURNAL OF BUSINESS RESEARCH	Article	2021	10.1016/j.jbusres.2021.05.009	Sjodin, D; Parida, V; Palmie, M; Wincent, J	How AI capabilities enable business model innovation: Scaling AI through co-evolutionary processes and feedback loops	X				X	X	X	X	X				X	X	General	X				Manufacturing	Empirical	Case study
57	NORDICOM REVIEW	Article	2021	10.2478/nor-2021-0001	Sjovaag, H; Owren, T	The non-substitutability of local news? Advertising and the decline of journalism's umbrella market model				X	X				X	X		X	X		ML	X				Online services	Empirical	Interview
58	SMART CITIES	Article	2021	10.3390/smartcities4010015	Tantau, A; Santa, AMI	New Energy Policy Directions in the European Union Developing the Concept of Smart Cities	X								X		X	X			ML			X		Services	Empirical	Case study
59	2018 FIFTH INTERNATIONAL CONFERENCE ON INTERNET OF THINGS: SYSTEMS, MANAGEMENT AND SECURITY	Proceedings Paper	2018	10.1109/IoTSMS.2018.8554391	Toglaw, S; Alogaily, M; Abu Alkheir, A	Connected, Autonomous and Electric Vehicles: The Optimum Value for a Successful Business Model		X													ML; General					Manufacturing	Empirical	
60	COMMUNICATION & SOCIETY-SPAIN	Article	2021	10.15581/003.34.1.177-193	Tunez-Lopez, JM; Ceide, CF; Vaz-Alvarez, M	Impact of Artificial Intelligence on Journalism: transformations in the company, products, contents and professional profile	X	X		X	X	X	X		X			X		X	Mix					Online services	Empirical	Interview
61	WIRELESS PERSONAL COMMUNICATIONS	Article; Proceedings Paper	2018	10.1007/s11277-018-5612-x	Valter, P; Lindgren, P; Prasad, R	Advanced Business Model Innovation Supported by Artificial Intelligence and Deep Learning		X												X	ML	X				General	Conceptual	
62	BUSINESS PROCESS MANAGEMENT JOURNAL	Article	2020	10.1108/BPMJ-10-2019-0411	Wamba-Taguimdje, SL; Wamba, SF; Kamdjoug, JRK; Wanko, CET	Influence of artificial intelligence (AI) on firm performance: the business value of AI-based transformation projects	X	X					X	X				X	X	X	Mix					General	LR	
63	SUSTAINABILITY	Article	2021	10.3390/su13095164	Wang, XY; Wu, H; Lu, L	A Novel Service Provision Mode for Sustainable Development of the Telecom Industry	X									X		X			ML					Telecom	Conceptual	Experiment
64	2021 2ND INTERNATIONAL CONFERENCE ON E-COMMERCE AND INTERNET TECHNOLOGY (ECIT 2021)	Proceedings Paper	2021	10.1109/ECIT52743.2021.00029	Wang, Y; Xu, DM	Research on the Business Model Innovation of Sisyphe Bookstore under background of New Retail	X			X		X								X	ML					Retail	Empirical	Case study
65	2019 BASIQ INTERNATIONAL CONFERENCE: NEW TRENDS IN SUSTAINABLE BUSINESS AND CONSUMPTION	Proceedings Paper	2019		Weiss, PV; Scheiblich, M; Buzatu, AI; Costache, IC	GREEN BUSINESS MODEL INNOVATION: ENHANCING BUSINESS PROCESSES THROUGH APPLICATION OF ARTIFICIAL INTELLIGENCE IN ORDER TO REDUCE THE ECOLOGICAL FOOTPRINT	X							X	X			X	X	X	General			X		General	Empirical	
66	ELECTRONICS	Article	2019	10.3390/electronics8101150	Xu, YA; Ahokangas, P; Turunen, M; Mantymaki, M; Heikkila, J	Platform-Based Business Models: Insights from an Emerging AI-Enabled Smart Building Ecosystem	X	X				X			X					X	General	X				Services	Empirical	Case study
67	TECHNOLOGY INNOVATION MANAGEMENT REVIEW	Article	2020	10.22215/timreview/1399	Yams, NB; Richardson, V; Shubina, GE; Albrecht, S; Gillblad, D	Integrated AI and Innovation Management: The Beginning of a Beautiful Friendship							X	X	X				X		General	X				General	Conceptual	DS & Tool Design
68	2020 2ND 6G WIRELESS SUMMIT (6G SUMMIT)	Proceedings Paper	2020	10.1109/6GSUMMIT49458.2020.9083885	Ziegler, V; Yijola, S	6G Indicators of Value and Performance	X						X	X							General	X				Telecom	Conceptual	
69	2021 JOINT EUROPEAN CONFERENCE ON NETWORKS AND COMMUNICATIONS & 6G SUMMIT (EUCNC/6G SUMMIT)	Proceedings Paper	2021	10.1109/EUCNC/6GSUMMIT51104.2021.9482431	Ziegler, V; Yijola, S	How To Make 6G a General Purpose Technology Prerequisites and value creation paradigm shift						X	X		X					X	ML					Telecom	Empirical	
70	2018 IEEE INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND INNOVATION (ICE/ITMC)	Proceedings Paper	2018	10.1109/ICE.2018.8436272	Zoll, M; Jack, D; Vogt, MW	Evaluation of Predictive-Maintenance-as-a-Service Business Models in the Internet of Things	X								X			X			ML					General	Empirical	Interview