

Appendix to “Blockchain technology in operations & supply chain management: a content analysis”

Content

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1. Detailed results of the CA

1.1 Results of the CA for the categories, subcategories and recording units

Preliminary remarks on the CA methodology:

- In the course of the auto-analysis, different spellings of recording units were considered and are indicated in the following comprehensive Table A1
- For some units of analysis, every word ending leads to the expected result. Therefore, we have included all of these word endings by using the word stem combined with an asterisk
- We ensured that the words are only counted in the relevant context through MAXQDA functionalities that allow counting words exclusively once they appear as whole words separately in the text
- The twelve categories of the developed framework are indicated in the first column with their subcategories in the second column. To explicitly include all industries at hand for the category ‘industry focus’, we used the NACE classification of the European Commission called ‘EU Code A*38’ (Eurostat 2008).
- The column “hits in the sample” indicates all hits for the specific recording unit(s) in the literature set, where several hits per document are also counted several times. The column “no. of articles” indicates the number of individual documents that contain the recording unit(s). The next column, “% articles”, shows what percentage of the total item this represents. The last column, “hits per article”, then provides information about the number of hits per article by dividing the total number of hits by the number of articles.

Table A1. Results of the CA for the categories, subcategories and recording units

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article	
Research focus	Operations management			operations management	109	40	12.6%	2.73	
				manufacturing system*	38	20	6.3%	1.90	
				operations strateg*	1	1	0.3%	1.00	
	Supply chain management			supply chain management	1,058	216	67.9%	4.90	
	Information systems			information system*	297	109	34.3%	2.72	
Industry focus	Agriculture	A	Agriculture	agricult*, agri-cult*,	645	97	30.5%	6.65	
				crop, seed*	259	35	11.0%	7.40	
				animal*	104	33	10.4%	3.15	
				agrifood*, agri-food*	428	52	16.4%	8.23	
			Forestry	forest*	57	16	5.0%	3.56	
				tree*	265	61	19.2%	4.34	
			Fishing		fishing	52	15	4.7%	3.47
	aquacultur*	6			4	1.3%	1.50		
	Mining	B	Mining	mining industr*	2	1	0.3%	2.00	
				quarrying	2	2	0.6%	1.00	
	Food	CA	Food	food*	2,883	201	63.2%	14.34	
				meat	81	44	13.8%	1.84	
				fruit*	82	38	11.9%	2.16	
				Beverage	beverage*	46	19	6.0%	2.42
					wine	135	30	9.4%	4.50
				beer	2	2	0.6%	1.00	
				drink*	16	10	3.1%	1.60	
				Tobacco		tobacco	45	4	1.3%
	Textiles	CB	Textiles	textile*	96	15	4.7%	6.40	
				apparel	121	19	6.0%	6.37	
				leather	6	5	1.6%	1.20	
				fast fashion	24	3	0.9%	8.00	
	Wood	CC	Wood	wood*	81	21	6.6%	3.86	
paperwork*, paper-base*				123	42	13.2%	2.93		
Chemicals	CE		chemical	87	53	16.7%	1.64		
Pharmaceutical	CF		pharma*	620	78	24.5%	7.95		
			drug*	945	51	16.0%	18.53		

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article	
				medicine*	223	58	18.2%	3.84	
	Metal	CH		metal, steel	51	16	5.0%	3.19	
	Electronics	CI		electronics	185	30	9.4%	6.17	
	Electricity	D		electric*	132	58	18.2%	2.28	
				grid	96	33	10.4%	2.91	
				energy	552	126	39.6%	4.38	
	Water supply	E		Water	93	48	15.1%	1.94	
				sewerage	2	2	0.6%	1.00	
	Construction	F		construction	386	80	25.2%	4.83	
	Wholesale	G		wholesale	473	74	23.3%	6.39	
				retail	275	91	28.6%	3.02	
	Transportation	H		transportation	1,578	174	54.7%	9.07	
				railway	10	6	1.9%	1.67	
				train	609	142	44.7%	4.29	
				truck*	178	56	17.6%	3.18	
				logistic industr*, logistics industr*	151	31	9.7%	4.87	
	Financial	K		financial industr*, financial institut*	81	33	10.4%	2.45	
				insurance	133	69	21.7%	1.93	
				bank*	446	123	38.7%	3.63	
				trade	1,304	188	59.1%	6.94	
	Real estate	L		real estate	30	21	6.6%	1.43	
				housing	146	60	18.9%	2.43	
				land	58	38	11.9%	1.53	
	Other	MA	Legal	legal	444	142	44.7%	3.13	
				law*	281	99	31.1%	2.84	
				Multimedia	media	240	49	15.4%	4.90
				Humanitarian	humanitarian	325	18	5.7%	18.06
	Public administration	O		public service	60	11	3.5%	5.45	
				administration	98	55	17.3%	1.78	
	Education	P		education	104	50	15.7%	2.08	
				school	49	23	7.2%	2.13	
	Human health services	QA		health care	37	19	6.0%	1.95	
	Arts	R		arts	4	4	1.3%	1.00	
				paint*	12	8	2.5%	1.50	
	Automotive			car*	59	24	7.5%	2.46	

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article
				automotive	55	32	10.1%	1.72
				vehicle*	289	82	25.8%	3.52
				batter*	30	11	3.5%	2.73
	Aeronautics			aeronautic, aerospace	43	9	2.8%	4.78
				aircraft*, airplane*	84	19	6.0%	4.42
				drone*	46	9	2.8%	5.11
				space	386	92	28.9%	4.20
				satellite*	18	10	3.1%	1.80
	Defense			defense	20	15	4.7%	1.33
				military	17	11	3.5%	1.55
				firearm	0	0	0.0%	0.00
	Engineering			engineering	295	100	31.4%	2.95
	Maritime			ship*	265	67	21.1%	3.96
				vessel*	64	13	4.1%	4.92
	Petroleum			petrol*	4	4	1.3%	1.00
				oil	114	58	18.2%	1.97
	Postal			postal	12	5	1.6%	2.40
				parcel*	20	12	3.8%	1.67
	Tourism			tourism	46	13	4.1%	3.54
				travel	53	40	12.6%	1.33
Methods	Conceptual research			conceptual	370	128	40.3%	2.89
				framework	1.463	235	73.9%	6.23
				content analysis	9	7	2.2%	1.29
				bibliometric*	4	4	1.3%	1.00
	Survey research			survey*	393	99	31.1%	3.97
				questionnair*	114	38	11.9%	3.00
	Qualitative research			empirical	347	88	27.7%	3.94
				interview*	602	50	15.7%	12.04
				Delphi	136	13	4.1%	10.46
				DEMATEL	166	14	4.4%	11.86
				focus group*	34	6	1.9%	5.67
				panel*	162	20	6.3%	8.10
	Case study and action research			case stud*	488	99	31.1%	4.93
				action research	8	5	1.6%	1.60

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article
	Archival research			secondary data	25	10	3.1%	2.50
				archival research	0	0	0.0%	0.00
	Simulation			simulation*	310	76	23.9%	4.08
	Optimization			optimization	201	73	23.0%	2.75
				heuristic*	4	4	1.3%	1.00
Theories	Transaction cost theory			transaction cost theory, transaction cost analysis, TCT, TCA	65	9	2.83%	7.22
	Resource-based view of the firm			resource based view, resource-based view, RBV	102	16	5.0%	6.38
	Market-based view			market based view, market-based view, MBV	10	4	1.3%	2.50
	Principal-agent theory			principal agent theory, principal-agent, PAT	45	8	2.5%	5.63
	Institutional theory			institutional theory	12	7	2.2%	1.71
	Network theory			network theory	19	10	3.1%	1.90
	Information theory			information theory	3	2	0.6%	1.50
	Innovation diffusion theory			innovation diffusion theory	10	9	2.8%	1.11
	Dynamic capability theory			dynamic capability theory	9	3	0.9%	3.00
	Technology adoption model			technology adoption model, TAM, TAM2	141	17	5.3%	8.29
	Technology-organization-environment framework			technology-organization-environment, TOE	87	11	3.5%	7.91
Interfaces	Internet of Things			Internet of things, IoT	2.161	183	57.5%	11.81
				smart device*	31	19	6.0%	1.63
	Artificial intelligence			artificial intellig*, AI	250	51	16.0%	4.90
				cognitive	59	14	4.4%	4.21
				neural	30	10	3.1%	3.00
	Big data analytics			big data, BDA	379	94	29.6%	4.03
				advanced analytic*	1	1	0.3%	1.00
				data mining	14	12	3.8%	1.17
				data science	15	5	1.6%	3.00
	Cloud computing/manufacturing			cloud comput*	101	59	18.6%	1.71
				cloud manufacturing	18	7	2.2%	2.57
				cloud system	8	3	0.9%	2.67
	Additive manufacturing			Additive manufacturing	51	14	4.4%	3.64

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article
				3D print*	51	16	5.0%	3.19
	Cyber-physical systems			cyber physical*, cyber-physical*, CPS	72	21	6.6%	3.43
	Robotic process automation			robotic process automation, RPA	0	0	0.0%	0.00
	Industry 4.0			Industry 4.0	221	53	16.7%	4.17
				machine-to-machine, M2M	32	10	3.1%	3.20
	RFID			RFID, radio frequency, radio-frequency	1.270	162	50.9%	7.84
	Robots			robots	13	8	2.5%	1.63
				cobots, collaborative robots	0	0	0.0%	0.00
	Cybersecurity			cybersecurity, cyber security	67	25	7.9%	2.68
Business Areas	Strategic management			strategic management	4	4	1.3%	1.00
	Procurement, logistics and distribution			procurement	218	85	26.7%	2.56
				warehousing	135	54	17.0%	2.50
				inventory management	70	43	13.5%	1.63
				logistics	3.653	226	71.1%	16.16
				distribution	885	219	68.9%	4.04
				transportation	1.578	174	54.7%	9.07
	Supply chain risk management			supply chain risk*, SCRM	116	24	7.5%	4.83
	Operations			manufacturing	1.434	188	59.1%	7.63
				production	1.667	230	72.3%	7.25
	Finance and accounting			finance	475	132	41.5%	3.60
				accounting	180	64	20.1%	2.81
				supply chain finance	166	36	11.3%	4.61
Marketing and sales			marketing, sales, aftersales	575	129	40.6%	4.46	
Potential	Trust			trust*	3.250	281	88.4%	11.57
	Security			security, immutability	2.494	269	84.6%	9.27
	Transparency			transparency	1.886	267	84.0%	7.06
	Traceability			trace*, track and trace, tracking	4.744	280	88.1%	16.94
	Disintermediation			disintermediat*, intermediar*	645	146	45.9%	4.42
	Cost savings, increased efficiency			costs, efficien*	3.466	274	86.2%	12.65
	Collaboration			collaboration, collaborate	530	128	40.3%	4.14
	Information sharing			information sharing	428	110	34.6%	3.89
	Decentralization			decentralization, decentralized, DApp	1.380	225	70.8%	6.13

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article
	Tokenization			tokenization	25	12	3.8%	2.08
	Autonomy			autonomy	21	15	4.7%	1.40
	Smart contracts			smart contract*	3.322	256	80.5%	12.98
Barriers	Awareness			aware*	291	101	31.8%	2.88
	Network setup			network setup, network cost, setup cost	22	7	2.2%	3.14
	Know-How			know-how, expertise, skill	215	47	14.8%	4.57
	Data disclosure			data disclosure, reluctance	16	11	3.5%	1.45
	Missing management support			top management support	44	12	3.8%	3.67
	Lack of trust			lack of trust	81	48	15.1%	1.69
	Unclear governance			governance	412	91	28.6%	4.53
	Missing standards			missing standard, no standard, standardization, standardisation	203	83	26.1%	2.45
	Legal uncertainties			legal issue*, legal uncertain*, legal compliance*, legal concern*	23	8	2.5%	2.88
	Regulatory uncertainties			regulatory*	401	106	33.3%	3.78
Adoption	Proof of concept			proof of concept, POC	94	29	9.1%	3.24
	Use case			use case*	532	107	33.6%	4.97
	Productive application			productive use, productive application	9	2	0.6%	4.50
Consensus	Proof-of-Work			Proof-of-Work, POW	191	54	17.0%	3.54
	Proof-of-Stake			Proof-of-Stake, POS	100	39	12.3%	2.56
	Proof-of-Authority			Proof-of-Authority, POA	68	12	3.8%	5.67
	Byzantine Fault Tolerance			Byzantine Fault Tolerance, BFT	97	44	13.8%	2.20
	Proof-of-Elapsed-Time			Proof of Elaps*, POET	55	13	4.1%	4.23
Platform	Ethereum			Ether*	1.003	159	50.0%	6.31
	Bitcoin			Bitcoin*	791	221	69.5%	3.58
	Hyperledger			Hyperledger	580	104	32.7%	5.58
	Multichain			Multichain	10	9	2.8%	1.11
	R3 Corda			Corda	12	10	3.1%	1.20
	Public blockchain			public blockchain	260	99	31.1%	2.63
	Private blockchain			private blockchain	245	83	26.1%	2.95
	Permissioned			permissioned	383	105	33.0%	3.65
	Permissionless			permissionless	103	49	15.4%	2.10
	Consortium			consort*	476	94	29.6%	5.06
Other	Green			green	487	71	22.3%	6.86

Category	Subcategory	EU code A*38	Terms	Recording units	Hits in the sample	No. of articles	% of articles	Hits per article
	Sustainability			sustainabil*	809	109	34.3%	7.42
	Environment			environmental	582	119	37.4%	4.89
	Cryptocurrencies			cryptocurrenc*	489	135	42.5%	3.62

1.2 Visualization of different categories and hits for the recording units in these categories

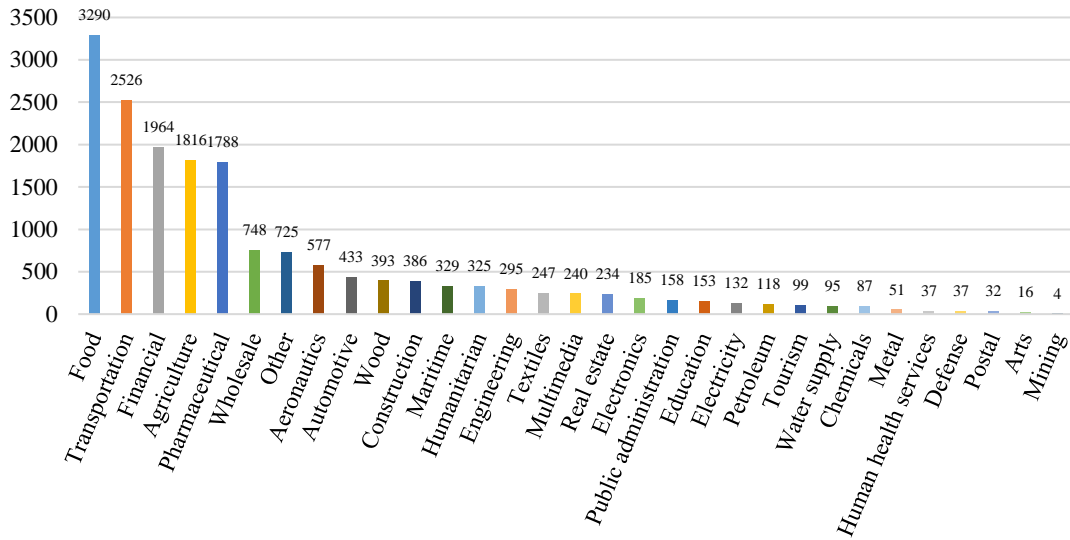


Figure A1. Hits for the category 'industry focus'

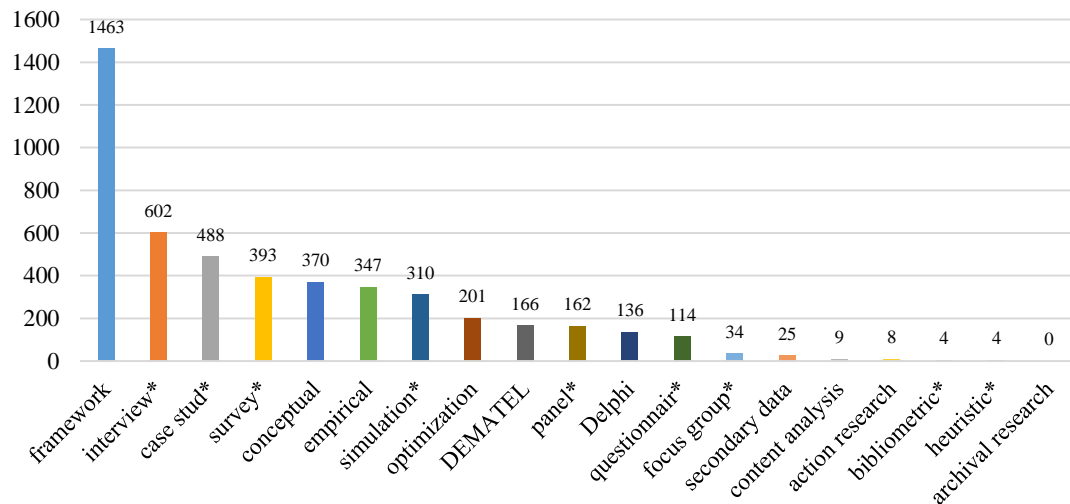


Figure A2. Recording unit hits in the category 'methods'

Table A2. Top 10 recording unit hits per article

#	Recording unit(s)	Hits per article	No. of articles	Hits	Category
1	drug	18.53	51	945	Industry focus
2	humanitarian	18.06	18	325	Industry focus
3	tracking and tracing	16.95	280	4,746	Potential
4	logistics	16.23	226	3,667	Business areas
5	food	14.35	201	2,885	Industry focus
6	smart contracts	12.98	256	3,322	Potential
7	cost savings, increased efficiency	12.65	274	3,466	Potential
8	interview	12.04	50	602	Methods
9	DEMATEL	11.86	14	166	Methods
10	Internet of things, IoT	11.81	183	2,161	Interfaces

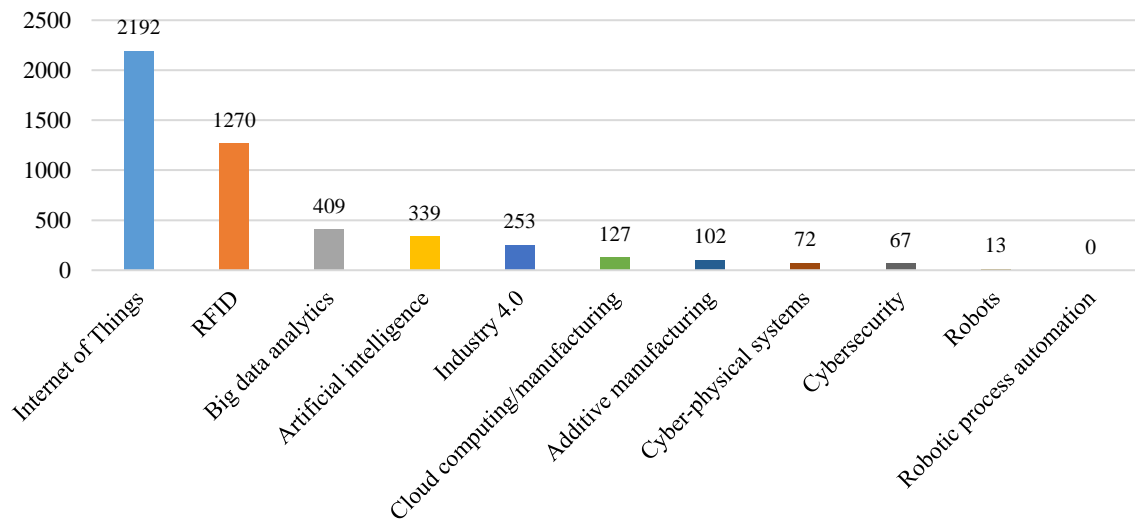


Figure A3. Number of hits in the category 'interfaces'

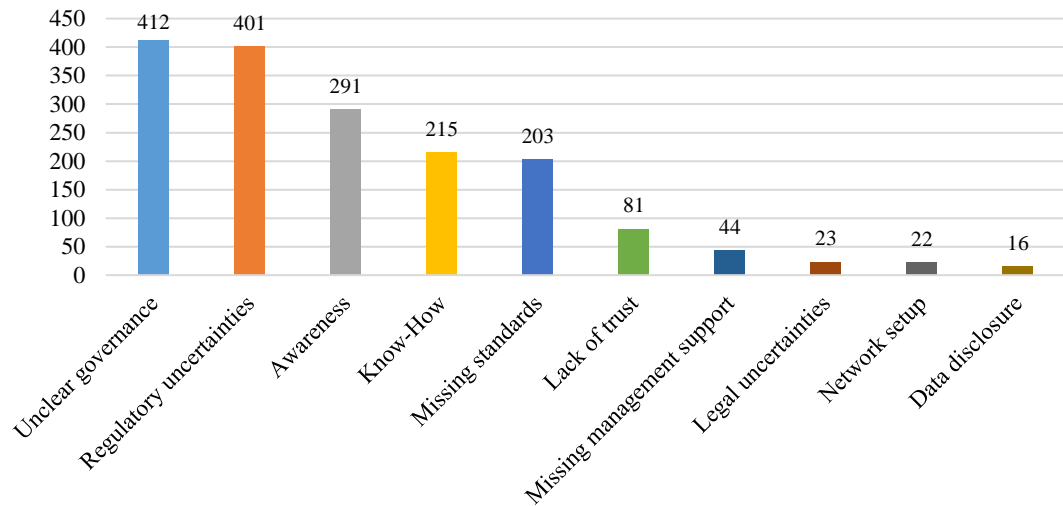


Figure A4. Number of hits in the category 'barriers'

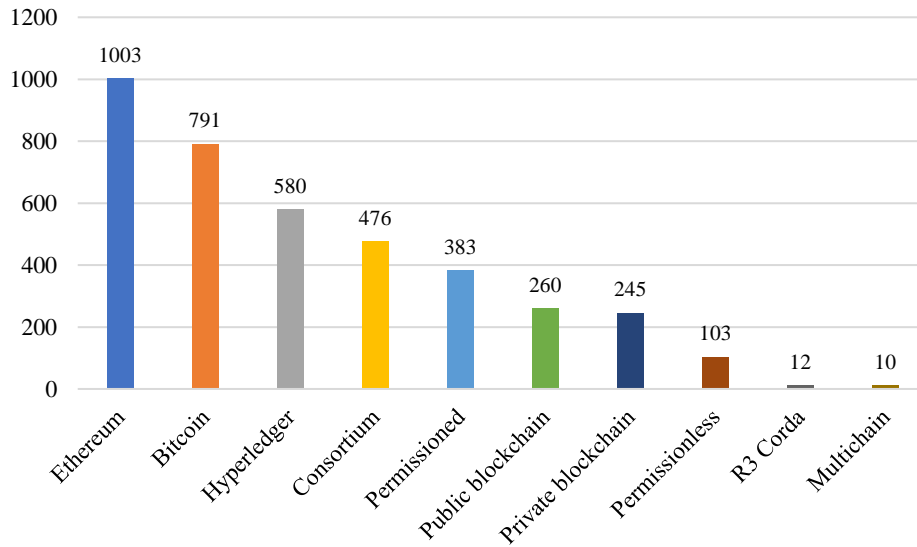


Figure A5. Number of hits in the category 'platform'

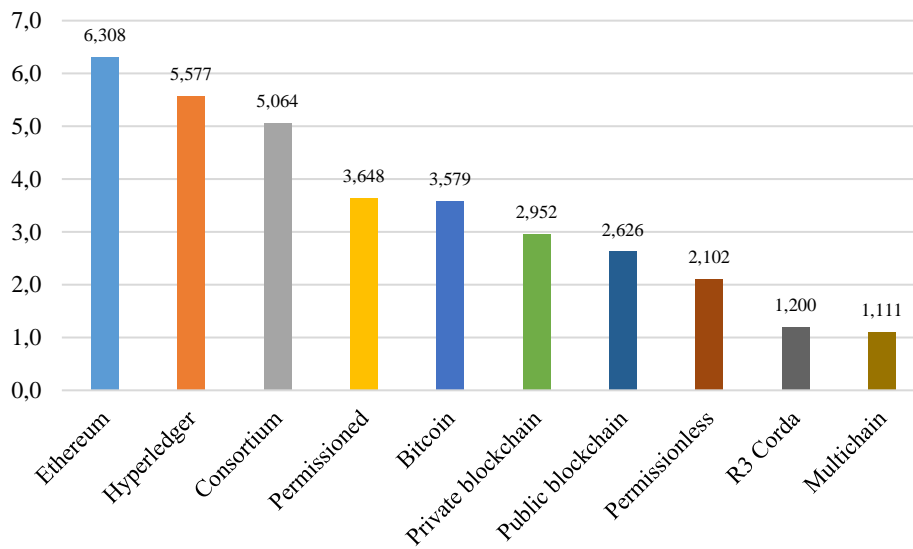


Figure A6. Hits per article for the subcategories in 'platform'

1.3 Keyword analysis

We also used the import feature of the MAXQDA software to analyze the .ris-file generated from all 318 documents that includes the keywords of each article. After filtering out single descriptors like “4.0”, the word cloud in Fig. A7 was generated. The thickness of the font represents the frequency of the keywords. Consistent with the recording units, a focus on SCM and IoT can be identified. Frequently mentioned methods include design science, game theory, structural equation, and literature review. Industries in the research focus include food, agricultural or pharmaceutical supply chains. Potentials or application areas of the technology were indicated by information sharing, traceability systems, supply chain visibility, supply chain finance, inventory control, and decision making.



Figure A7. Word cloud of keywords used in the literature set

2. Existing literature reviews on blockchain technology in OM & SCM (tertiary analysis)

Several literature reviews have been published on blockchain technology in OM & SCM, each focusing on specific aspects. Table A3 summarizes the relevant information, including author names, publication year and journal, date of acceptance and publication, search dates, search strings, restrictions, and databases used.

Wamba et al. (2020) combine a literature review on bitcoin, blockchain, and fintech with a case-study approach and use a framework to classify the identified material. As the literature set is heterogeneous due to the three independent search terms, the authors only find five articles with SC reference and two with OM reference (search included articles until Dec 2017). More than 40% of the identified 141 articles deal with financial services. For the supply chain context, the authors conclude that blockchain reduces fraud and improves proof of origin tracking through

an immutable shared transaction, increases transparency in the chain, and may reduce transaction costs by disintermediation.

Wang et al. (2019) proposed another review with a narrower focus on SCM, where the authors aimed to identify drivers to blockchain deployment, valuable topics for blockchain use, barriers to technology diffusion, and a future research agenda. Piloting cases from industry were used as a supplement to the 29 selected academic articles (search until Jan 2018), which were mostly predictive and prescriptive. The main drivers of blockchain deployment are trust, SC transparency, as well as public and product safety. Areas with potential include product traceability, SC visibility, disintermediation, data security, and smart contracts, while challenges persist in the organizational, technical, and operational domains.

Queiroz et al. (2019) assessed current blockchain applications in SCM and the major disruptions in SCM due to blockchain adoption. The identified 27 articles (until Feb 2018) were mainly conceptual, framework proposals, and case studies. The main contexts for application were the electric power industry and the pharmaceutical supply chain. Disruptions were identified as disintermediation, automation through smart contracts, increased network transparency, and new business models. The authors conclude with future research opportunities related to empirical studies, governance models, and blockchain integration with smart production and IoT in the OM area.

Gurtu and Johny (2019) identified 25 articles with the keywords “supply chain” or “logistics” in their search up until Dec 2018. The authors discovered an increasing trend of articles with an SCM focus and constituted increasing trust as the technology's greatest potential.

Pournader et al. (2020) highlighted four clusters they identified in their literature set of 48 articles (until Oct 2018) on blockchain technology in the supply chain, logistics, and transport: technology, trust, trade, and traceability/transparency. The authors outlined the recent research efforts, the relevance, and implications for each cluster.

Frizzo-Barker et al. (2020) focused on business-related applications and themes of blockchain technology. Nearly three-quarters of articles in their literature set of 155 articles (until Dec 2018) were conceptual, while empirical research remained scarce. Concerning the distribution of topics, a similar picture emerges as in Wamba et al. (2020): financial topics are most strongly represented, while only nine papers relate to SCM or OM. However, the authors highlighted the significance of the domain, as evidenced by various industry use cases and initiatives.

Recently, Kummer et al. (2020) aimed at identifying the organizational theories applied in blockchain-SCM research, where transaction cost theory, principal-agency theory, network theory, resource-based view, information theory, and institutional theory were found in decreasing order of significance. The authors call for more interdisciplinary research to strengthen the theoretical foundation of research on blockchain technology.

Other articles with viewpoints and implications for blockchain technology are available but only referenced here for further reading due to space restrictions (refer to Treiblmaier 2018; Ivanov et al. 2019; Olsen and Tomlin 2020; Babich and Hilary 2020; Müßigmann et al. 2020; Bodkhe et al. 2020).

Table A3. Summary of existing literature reviews on blockchain technology in SCM & OM

Author	Journal and publication year	Accepted	Published online	Search until	Quantity of relevant articles	Search Strings	Search limitations	Databases
Wamba et al.	Production Planning and Control, 2020	03.08.2018	04.12.2019	Dez 17	141 of 314	Blockchain OR Bitcoin OR Fintech	All Content	ABI/INFORM Complete, Academic Search Complete, Emerald Journals, JSTOR and ScienceDirect
Wang et al.	Supply Chain Management, 2019	04.10.2018	14.01.2019	Jan 18	29 of 227	blockchain or "digital ledger" or "distributed ledger" or "shared ledger" consists of "logistics", "supply chain", "demand chain" and "value chain"	All Content	ABI Inform Global, Emerald, IEEE Explore, Jstor, Science Direct, Scopus, Springer, Taylor and Francis and Web of Science
Queiroz et al.	Supply Chain Management, 2019	06.12.2018	22.08.2019	Feb 18	27 of 92	blockchain AND (supply AND chain) OR logistics OR manufacturing OR transportation OR purchasing OR (smart AND contracts) OR (suppliers) OR (green AND supply AND chain) OR (sustainability) OR (environment) OR (production AND systems) OR (industry 4.0) OR (iot OR internet AND of AND things) OR (cps OR cyber AND physical-systems) OR (bda OR big AND data)	Title, abstract and keywords	Scopus, ScienceDirect (Elsevier); Emeraldinsight (Emerald); Wiley Online Library (Wiley); Taylor & Francis Online (Taylor & Francis); Sagepub (Sage Journals); IEEE Xplore Digital Library (IEEE); and Springer Link (Springer)
Gurtu & Johnny	International Journal of Physical Distribution and Logistics Management, 2019	10.07.2019	29.11.2019	Dec 18	30 of 299	"blockchain"	Title, abstract and keywords	EBSCO Premium
Pournader et al.	International Journal of Production Research, 2020	16.07.2019	11.08.2019	Oct 18	48 of 132	blockchain OR distributed ledger OR smart contract AND supply chain OR logistics OR transport	Title, abstract and keywords	Scopus
Frizzo-Baker et al.	International Journal of Information Management, 2020	22.10.2019	11.11.2019	Dec 18	155 of 529	"blockchain"	Title, abstract and keywords	Business Source Complete, SpringerLink, and Web of Science,
Kummer et al.	Future Internet, 2020	21.03.2020	23.03.2020	Jan 20	22 of 228	"blockchain" AND "logistics" OR "SCM" OR ("supply chain") OR "transport"	Abstract	EBSCO Business Source Complete, (ISI) Web of Knowledge (Social Sciences Citation Index (SSCI)-Database)

References for Section 2 of this Appendix

- Babich V, Hilary G (2020) Distributed Ledgers and Operations: What Operations Management Researchers Should Know About Blockchain Technology. *Manuf Serv Oper Manag* 22:223–240. doi: 10.1287/msom.2018.0752
- Bodkhe U, Tanwar S, Parekh K, Khanpara P (2020) Blockchain for Industry 4.0 : A Comprehensive Review. *IEEE Access* 8:. doi: 10.1109/ACCESS.2020.2988579
- Frizzo-Barker J, Chow-White PA, Adams PR, et al (2020) Blockchain as a disruptive technology for business: A systematic review. *Int J Inf Manage* 51:0–1. doi: 10.1016/j.ijinfomgt.2019.10.014
- Gurtu A, Johny J (2019) Potential of blockchain technology in supply chain management: a literature review. *Int J Phys Distrib Logist Manag* 49:881–900. doi: 10.1108/IJPDLM-11-2018-0371
- Ivanov D, Dolgui A, Sokolov B (2019) The impact of digital technology and Industry 4.0 on the ripple effect and supply chain risk analytics. *Int J Prod Res* 57:829–846. doi: 10.1080/00207543.2018.1488086
- Kummer S, Herold DM, Dobrovnik M, et al (2020) A systematic review of blockchain literature in logistics and supply chain management: Identifying research questions and future directions. *Futur Internet* 12:. doi: 10.3390/fi12030060
- Müßigmann B, Gracht H Von Der, Hartmann E (2020) Blockchain Technology in Logistics and Supply Chain Management — A Bibliometric Literature Review From 2016 to January 2020. *IEEE Trans Eng Manag* 67:988–1007. doi: 10.1109/TEM.2020.2980733
- Olsen TL, Tomlin B (2020) Industry 4.0: Opportunities and challenges for operations management. *Manuf Serv Oper Manag* 22:113–122. doi: 10.1287/msom.2019.0796
- Pournader M, Shi Y, Seuring S, Koh SCL (2020) Blockchain applications in supply chains, transport and logistics: a systematic review of the literature. *Int J Prod Res* 58:2063–2081. doi: 10.1080/00207543.2019.1650976
- Queiroz MM, Telles R, Bonilla SH (2019) Blockchain and supply chain management integration: a systematic review of the literature. *Supply Chain Manag*. doi: 10.1108/SCM-03-2018-0143
- Treiblmaier H (2018) The impact of the blockchain on the supply chain: a theory-based research framework and a call for action. *Supply Chain Manag* 23:545–559. doi: 10.1108/SCM-01-2018-0029
- Wamba SF, Kala Kamdjoug JR, Epie Bawack R, Keogh JG (2020) Bitcoin, Blockchain and Fintech: a systematic review and case studies in the supply chain. *Prod Plan Control* 31:115–142. doi: 10.1080/09537287.2019.1631460
- Wang Y, Han JH, Beynon-Davies P (2019) Understanding blockchain technology for future supply chains: a systematic literature review and research agenda. *Supply Chain Manag An Int J* 24:62–84. doi: 10.1108/SCM-03-2018-0148

3. Full reference list of the final literature sample and PRISMA chart

This section contains the full reference list for the final literature sample used in the content analysis process. The list of all 421 assessed articles is available on request from the corresponding author. Figure A8 below further details the literature search process following the PRISMA flow chart style.

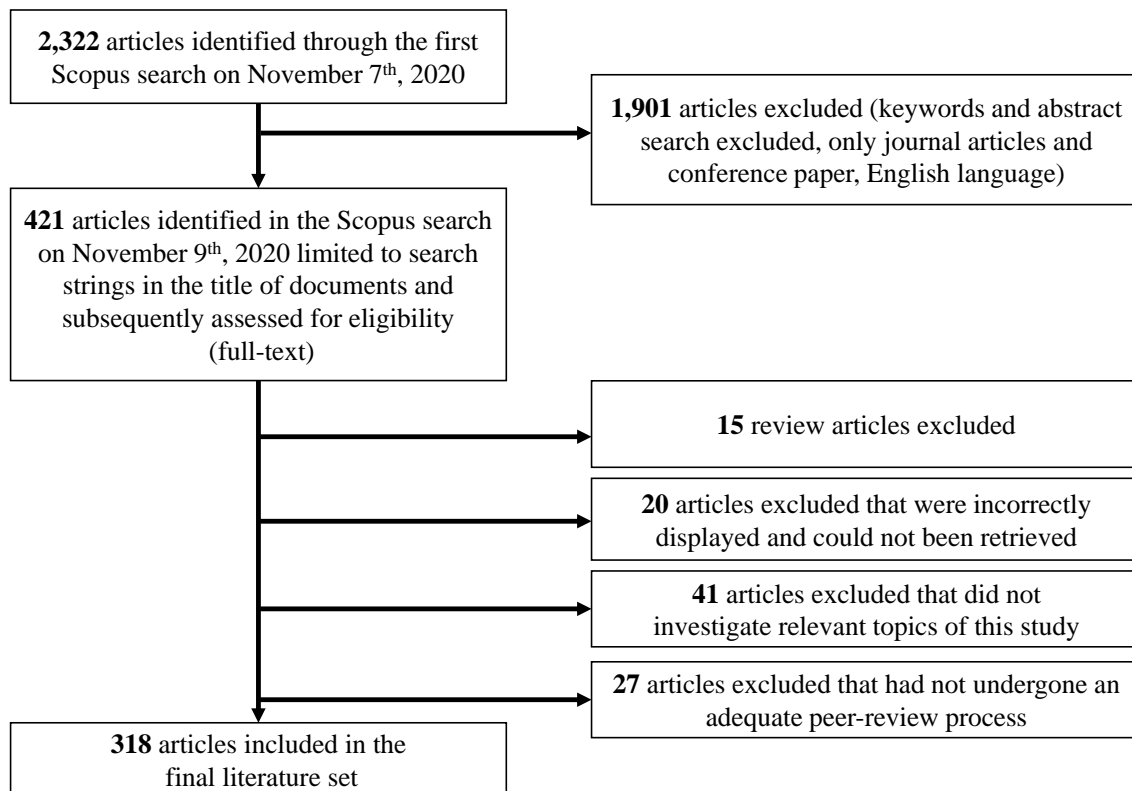


Figure A8. Literature search process

Full reference list for the literature sample:

- Abbas, K., M. Afaq, T.A. Khan, and W.-C. Song. 2020. "A Blockchain and Machine Learning-Based Drug Supply Chain Management and Recommendation System for Smart Pharmaceutical Industry." *Electronics (Switzerland)* 9 (5). doi:10.3390/electronics9050852.
- Agrawal, T.K., R. Kalaiarasan, and M. Wiktorsson. 2020. *Blockchain-Based Secured Collaborative Model for Supply Chain Resource Sharing and Visibility. IFIP Advances in Information and Communication Technology*. Vol. 591 IFIP. doi:10.1007/978-3-030-57993-7_30.
- Abidi, Mustufa Haider, Hisham Alkhalefah, Usama Umer, and Muneer Khan Mohammed. 2020. "Blockchain-Based Secure Information Sharing for Supply Chain Management: Optimization Assisted Data Sanitization Process." *International Journal of Intelligent Systems*, no. September. doi:10.1002/int.22299.
- Abou Maroun, Elias, Jay Daniel, Didar Zowghi, and Amir Talaei-Khoei. 2019. "Blockchain in Supply Chain Management: Australian Manufacturer Case Study." *Lecture Notes in Business Information Processing*. Vol. 367. Springer International Publishing. doi:10.1007/978-3-030-32242-7_8.
- Ahmadi, Victoria, Sophia Benjelloun, Michel El Kik, Tanvi Sharma, Huihui Chi, and Wei Zhou. 2020. "Drug Governance: IoT-Based Blockchain Implementation in the Pharmaceutical Supply Chain." *2020 6th International Conference on Mobile and Secure Services, MOBISECSERV 2020*. IEEE, 1–8. doi:10.1109/MobiSecServ48690.2020.9042950.
- Alahmadi, A., and X. Lin. 2019. "Towards Secure and Fair IIoT-Enabled Supply Chain Management via Blockchain-Based Smart Contracts." In *IEEE International Conference on Communications*. Vol. 2019-May. doi:10.1109/ICC.2019.8761216.
- Al Barghuthi, Nedaa Baker N.B., H.J. Hussam Juma Mohamed, and H.E. Huwida E. Said. 2019. "Blockchain in Supply Chain Trading." *ITT 2018 - Information Technology Trends: Emerging Technologies for Artificial Intelligence*, no. Itt. IEEE: 336–341. doi:10.1109/CTIT.2018.8649523.

- Allen, D.W.E., C. Berg, S. Davidson, M. Novak, and J. Potts. 2019. "International Policy Coordination for Blockchain Supply Chains." *Asia and the Pacific Policy Studies* 6 (3): 367–380. doi:10.1002/app5.281
- Álvarez-Díaz, N., J. Herrera-Joancomartí, and P. Caballero-Gil. 2017. "Smart Contracts Based on Blockchain for Logistics Management." In *ACM International Conference Proceeding Series*. doi:10.1145/3109761.3158384.
- Alzahrani, N., and N. Bulusu. 2018. "Block-Supply Chain: A New Anti-Counterfeiting Supply Chain Using NFC and Blockchain." In *CRYBLOCK 2018 - Proceedings of the 1st Workshop on Cryptocurrencies and Blockchains for Distributed Systems, Part of MobiSys 2018*, 30–35. doi:10.1145/3211933.3211939.
- Aniello, L., B. Halak, P. Chai, R. Dhall, M. Mihalea, and A. Wilczynski. 2020. "Anti-BIUFF: Towards Counterfeit Mitigation in IC Supply Chains Using Blockchain and PUF." *International Journal of Information Security*. doi:10.1007/s10207-020-00513-8.
- Ar, Ilker Murat, Ismail Erol, Iskender Peker, Ali Ihsan Ozdemir, Tunc Durmus Medeni, and Ihsan Tolga Medeni. 2020. "Evaluating the Feasibility of Blockchain in Logistics Operations: A Decision Framework." *Expert Systems with Applications* 158 (November). Elsevier Ltd: 113543. doi:10.1016/j.eswa.2020.113543.
- Aranda, Daniel Arias, Luis Miguel Molina Fernandez, and Vladimir Stantchev. 2019. "Integration of Internet of Things (IoT) and Blockchain to Increase Humanitarian Aid Supply Chains Performance." In *2019 5th International Conference on Transportation Information and Safety (ICTIS)*, 140–145. IEEE. doi:10.1109/ICTIS.2019.8883757.
- Arena, A., A. Bianchini, P. Perazzo, C. Vallati, and G. Dini. 2019. "BRUSCHETTA: An IoT Blockchain-Based Framework for Certifying Extra Virgin Olive Oil Supply Chain." In *Proceedings - 2019 IEEE International Conference on Smart Computing, SMARTCOMP 2019*, 173–179. doi:10.1109/SMARTCOMP.2019.00049.
- Awan, Sabir Hussain S.H. Sabir Hussain S.H., Asif Nawaz, Sheeraz Ahmed, Hasan Ali H.A. Hasan Ali H.A. Khattak, Khalid Zaman, and Zeeshan Najam. 2020. "Blockchain Based Smart Model for Agricultural Food Supply Chain." *2020 International Conference on UK-China Emerging Technologies, UCET 2020*, 1–5. doi:10.1109/ucet51115.2020.9205477.
- Awwad, M., S.R. Kalluru, V.K. Airpulli, M.S. Zambre, A. Marathe, and P. Jain. 2018. "Blockchain Technology for Efficient Management of Supply Chain." In *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 2018:440–449.
- Azzi, R., R.K. Chamoun, and M. Sokhn. 2019. "The Power of a Blockchain-Based Supply Chain." *Computers and Industrial Engineering* 135: 582–592. doi:10.1016/j.cie.2019.06.042.
- Babich, Volodymyr, and Gilles Hilary. 2019. "Blockchain and Other Distributed Ledger Technologies in Operations." *Foundations and Trends in Technology, Information and Operations Management* 12 (2–3): 152–172. doi:10.1561/02000000084.
- Babich, Volodymyr, and Gilles Hilary. 2020. "Distributed Ledgers and Operations: What Operations Management Researchers Should Know about Blockchain Technology." *Manufacturing and Service Operations Management* 22 (2): 223–240. doi:10.1287/MSOM.2018.0752.
- Bag, S., D.A. Viktorovich, A.K. Sahu, and A.K. Sahu. 2020. "Barriers to Adoption of Blockchain Technology in Green Supply Chain Management." *Journal of Global Operations and Strategic Sourcing*. doi:10.1108/JGOSS-06-2020-0027.
- Baharmand, Hossein, and Tina Comes. 2019. "Leveraging Partnerships with Logistics Service Providers in Humanitarian Supply Chains by Blockchain-Based Smart Contracts." *IFAC-PapersOnLine* 52 (13). Elsevier Ltd: 12–17. doi:10.1016/j.ifacol.2019.11.084.
- Bai, C., and J. Sarkis. 2020. "A Supply Chain Transparency and Sustainability Technology Appraisal Model for Blockchain Technology." *International Journal of Production Research* 58 (7): 2142–2162. doi:10.1080/00207543.2019.1708989.
- Balakrishna Reddy, G., and K. Ratna Kumar. 2020. "Quality Improvement in Organic Food Supply Chain Using Blockchain Technology." *Lecture Notes in Mechanical Engineering*. doi:10.1007/978-981-15-2696-1_86.
- Balistri, Eugenio, Francesco Casellato, Carlo Giannelli, Roberto Lazzarini, Cedric Franck Ngatcha Keyi, and Cesare Stefanelli. 2020. "Servitization in the Era of Blockchain: The Ice Cream Supply Chain Business Case." In *2020 International Conference on Technology and Entrepreneurship (ICTE) Servitization*, 1–8. doi:10.1109/ict47868.2020.9215539.
- Baralla, G., S. Ibba, M. Marchesi, R. Tonelli, and S. Missineo. 2019. "A Blockchain Based System to Ensure Transparency and Reliability in Food Supply Chain." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11339 LNCS. doi:10.1007/978-3-030-10549-5_30.
- Baralla, G., A. Pinna, and G. Corrias. 2019. "Ensure Traceability in European Food Supply Chain by Using a Blockchain System." In *Proceedings - 2019 IEEE/ACM 2nd International Workshop on Emerging Trends in Software Engineering for Blockchain, WETSEB 2019*, 40–47. doi:10.1109/WETSEB.2019.00012.
- Behnke, Kay, and M.F.W.H.A. F.W.H.A. Janssen. 2020. "Boundary Conditions for Traceability in Food Supply Chains Using Blockchain Technology." *International Journal of Information Management* 52 (March 2019). Elsevier: 101969. doi:10.1016/j.ijinfomgt.2019.05.025.
- Bettín-Díaz, Rafael, Alix E. A.E. Rojas, and Camilo Mejía-Moncayo. 2018. "Methodological Approach to the Definition of a Blockchain System for the Food Industry Supply Chain Traceability." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 10961 LNCS: 19–33. doi:10.1007/978-3-319-95165-2_2.
- Bhalerao, S., S. Agarwal, S. Borkar, S. Anekar, N. Kulkarni, and S. Bhagwat. 2019. "Supply Chain Management Using Blockchain." In *Proceedings of the International Conference on Intelligent Sustainable Systems, ICISS 2019*, 456–459. doi:10.1109/ISSI.2019.8908031.

- Bjerkenes, M., and M. Haddara. 2020. *Blockchain Technology Solutions for Supply Chains. Advances in Intelligent Systems and Computing*. Vol. 1069. doi:10.1007/978-3-030-32520-6_65.
- Bose, S., M. Raikwar, D. Mukhopadhyay, A. Chattopadhyay, and K.-Y. Lam. 2018. "BLIC: A Blockchain Protocol for Manufacturing and Supply Chain Management of ICS." In *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, IThings/Gree*, 1326–1335. doi:10.1109/Cybermatics_2018.2018.00229.
- Botcha, K.M., V.V. Chakravarthy, and A. Anurag. 2019. "Enhancing Traceability in Pharmaceutical Supply Chain Using Internet of Things (Iot) and Blockchain." In *Proceedings - 2019 IEEE International Conference on Intelligent Systems and Green Technology, ICISGT 2019*, 45–48. doi:10.1109/ICISGT44072.2019.00025.
- Bryatov, S.R., and A.A. Borodinov. 2019. "Blockchain Technology in the Pharmaceutical Supply Chain: Researching a Business Model Based on Hyperledger Fabric." In *CEUR Workshop Proceedings*, 2416:134–140. doi:10.18287/1613-0073-2019-2416-134-140.
- Cai, Y.-J., T.-M. Choi, and J. Zhang. 2020. "Platform Supported Supply Chain Operations in the Blockchain Era: Supply Contracting and Moral Hazards*." *Decision Sciences*. doi:10.1111/dec.12475.
- Caro, M.P., M.S. Ali, M. Vecchio, and R. Giuffreda. 2018. "Blockchain-Based Traceability in Agri-Food Supply Chain Management: A Practical Implementation." In *2018 IoT Vertical and Topical Summit on Agriculture - Tuscany, IOT Tuscany 2018*, 1–4. doi:10.1109/IOT-TUSCANY.2018.8373021.
- Casado-Vara, Roberto, Javier Prieto, Fernando De F.D. La Prieta, and Juan M. J.M. Corchado. 2018. "How Blockchain Improves the Supply Chain: Case Study Alimentary Supply Chain." *Procedia Computer Science* 134. Elsevier B.V.: 393–398. doi:10.1016/j.procs.2018.07.193.
- Casino, F., V. Kanakaris, T.K. Dasaklis, S. Moschuris, S. Stachtiaris, M. Pagoni, and N.P. Rachaniotis. 2020. "Blockchain-Based Food Supply Chain Traceability: A Case Study in the Dairy Sector." *International Journal of Production Research*, 1–13. doi:10.1080/00207543.2020.1789238.
- Casino, Fran, Venetis Kanakaris, Thomas K. T.K. Dasaklis, Socrates Moschuris, and Nikolaos P. N.P. Nikolaos P. Rachaniotis. 2019. "Modeling Food Supply Chain Traceability Based on Blockchain Technology." *IFAC-PapersOnLine* 52 (13). Elsevier Ltd: 2728–2733. doi:10.1016/j.ifacol.2019.11.620.
- Cha, S., S. Baek, and S. Kim. 2020. "Blockchain Based Sensitive Data Management by Using Key Escrow Encryption System from the Perspective of Supply Chain." *IEEE Access* 8: 154269–154280. doi:10.1109/ACCESS.2020.3017871.
- Chan, K.Y., J. Abdullah, and A.S. Khan. 2019. "A Framework for Traceable and Transparent Supply Chain Management for Agri-Food Sector in Malaysia Using Blockchain Technology." *International Journal of Advanced Computer Science and Applications* 10 (11): 149–156. doi:10.14569/IJACSA.2019.0101120.
- Chang, S.E., Y.-C. Chen, and M.-F. Lu. 2019. "Supply Chain Re-Engineering Using Blockchain Technology: A Case of Smart Contract Based Tracking Process." *Technological Forecasting and Social Change* 144: 1–11. doi:10.1016/j.techfore.2019.03.015.
- Chang, Y., E. Iakovou, and W. Shi. 2020. "Blockchain in Global Supply Chains and Cross Border Trade: A Critical Synthesis of the State-of-the-Art, Challenges and Opportunities." *International Journal of Production Research* 58 (7): 2082–2099. doi:10.1080/00207543.2019.1651946.
- Chen, C.-Y., T.-C. Kang, Y.-W. Chan, C.-T. Yang, C.-H. Chang, and Y.-T. Tsai. 2020. "An Integrated Framework of Supply Chain Traceability Based on Blockchain Technology." *Lecture Notes in Electrical Engineering*. Vol. 551 LNEE. doi:10.1007/978-981-15-3250-4_41.
- Chen, J., T. Cai, W. He, L. Chen, G. Zhao, W. Zou, and L. Guo. 2020. "A Blockchain-Driven Supply Chain Finance Application for Auto Retail Industry." *Entropy* 22 (1): 95. doi:10.3390/e22010095.
- Chen, Si, Xingchen Liu, Jiaqi Yan, Guangwei Hu, and Yani Shi. 2020. "Processes, Benefits, and Challenges for Adoption of Blockchain Technologies in Food Supply Chains: A Thematic Analysis." *Information Systems and E-Business Management*, no. 0123456789. Springer Berlin Heidelberg. doi:10.1007/s10257-020-00467-3.
- Chen, Si, Rui Shi, Zhuangyu Ren, Jiaqi Yan, Yani Shi, and Jinyu Zhang. 2017. "A Blockchain-Based Supply Chain Quality Management Framework." *Proceedings - 14th IEEE International Conference on E-Business Engineering, ICEBE 2017 - Including 13th Workshop on Service-Oriented Applications, Integration and Collaboration, SOAIC 2017*, 172–176. doi:10.1109/ICEBE.2017.34.
- Chen, Ting, and Derong Wang. 2020. "Combined Application of Blockchain Technology in Fractional Calculus Model of Supply Chain Financial System." *Chaos, Solitons and Fractals* 131 (xxxx). Elsevier Ltd. doi:10.1016/j.chaos.2019.109461.
- Chinedu, E., and A. Awasthi. 2019. "Utilizing the Blockchain Technology as an Effective Means for Supply Chain Traceability." In *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 1277–1278.
- Chod, Jiri, Nikolaos Trichakis, Gerry Tsoukalas, Henry Aspegren, and Mark Weber. 2020. "On the Financing Benefits of Supply Chain Transparency and Blockchain Adoption." *Management Science* 66 (10): 4378–4396. doi:10.1287/mnsc.2019.3434.
- Choi, T.-M. 2020. "Creating All-Win by Blockchain Technology in Supply Chains: Impacts of Agents' Risk Attitudes towards Cryptocurrency." *Journal of the Operational Research Society*. doi:10.1080/01605682.2020.1800419.

- Choi, T.-M., S. Guo, N. Liu, and X. Shi. 2020. "Optimal Pricing in On-Demand-Service-Platform-Operations with Hired Agents and Risk-Sensitive Customers in the Blockchain Era." *European Journal of Operational Research* 284 (3): 1031–1042. doi:10.1016/j.ejor.2020.01.049.
- Choi, T.-M., S. Guo, and S. Luo. 2020. "When Blockchain Meets Social-Media: Will the Result Benefit Social Media Analytics for Supply Chain Operations Management?" *Transportation Research Part E: Logistics and Transportation Review* 135. doi:10.1016/j.tre.2020.101860.
- Choi, T.-M., and S. Luo. 2019. "Data Quality Challenges for Sustainable Fashion Supply Chain Operations in Emerging Markets: Roles of Blockchain, Government Sponsors and Environment Taxes." *Transportation Research Part E: Logistics and Transportation Review* 131: 139–152. doi:10.1016/j.tre.2019.09.019.
- Choi, T.-M., X. Wen, X. Sun, and S.-H. Chung. 2019. "The Mean-Variance Approach for Global Supply Chain Risk Analysis with Air Logistics in the Blockchain Technology Era." *Transportation Research Part E: Logistics and Transportation Review* 127: 178–191. doi:10.1016/j.tre.2019.05.007.
- Choi, Tsan-Ming, Lipan Feng, and Rong Li. 2020. "Information Disclosure Structure in Supply Chains with Rental Service Platforms in the Blockchain Technology Era." *International Journal of Production Economics* 221 (August). Elsevier B.V.: 107473. doi:10.1016/j.ijpe.2019.08.008.
- Choi, Tsan-Ming. 2019. "Blockchain-Technology-Supported Platforms for Diamond Authentication and Certification in Luxury Supply Chains." *Transportation Research Part E: Logistics and Transportation Review* 128 (April). Elsevier: 17–29. doi:10.1016/j.tre.2019.05.011.
- Choi, Tsan-Ming. 2020. "Supply Chain Financing Using Blockchain: Impacts on Supply Chains Selling Fashionable Products." *Annals of Operations Research*. Springer US. doi:10.1007/s10479-020-03615-7.
- Christodoulou, Panayiotis, Klitos Christodoulou, and Andreas Andreou. 2018. "A Decentralized Application for Logistics: Using Blockchain in Real-World Applications." *Cyprus Review* 30 (2): 181–193.
- Cole, R., M. Stevenson, and J. Aitken. 2019. "Blockchain Technology: Implications for Operations and Supply Chain Management." *Supply Chain Management* 24 (4): 469–483. doi:10.1108/SCM-09-2018-0309.
- Çolak, Murat, Ihsan Kaya, Betül Özkan, Ayşenur Budak, and Ali Karaşan. 2020. "A Multi-Criteria Evaluation Model Based on Hesitant Fuzzy Sets for Blockchain Technology in Supply Chain Management." *Journal of Intelligent and Fuzzy Systems* 38 (1): 935–946. doi:10.3233/JIFS-179460.
- Cui, P., J. Dixon, U. Guin, and D. Dimase. 2019. "A Blockchain-Based Framework for Supply Chain Provenance." *IEEE Access* 7: 157113–157125. doi:10.1109/ACCESS.2019.2949951.
- Dasaklis, Thomas K. T.K., Fran Casino, Costas Patsakis, and Christos Douligeris. 2019. "A Framework for Supply Chain Traceability Based on Blockchain Tokens." *Lecture Notes in Business Information Processing*. Vol. 362 LNBP. Springer International Publishing. doi:10.1007/978-3-030-37453-2_56.
- Dasaklis, T.K., F. Casino, and C. Patsakis. 2019. "Defining Granularity Levels for Supply Chain Traceability Based on IoT and Blockchain." In *ACM International Conference Proceeding Series*, Part F1481:184–190. doi:10.1145/3312614.3312652.
- De Giovanni, Pietro. 2020. "Blockchain and Smart Contracts in Supply Chain Management: A Game Theoretic Model." *International Journal of Production Economics* 228. Elsevier B.V.: 107855. doi:10.1016/j.ijpe.2020.107855.
- Demir, M., O. Turetken, and A. Ferwom. 2019. "Blockchain and IoT for Delivery Assurance on Supply Chain (BIDAS)." In *Proceedings - 2019 IEEE International Conference on Big Data, Big Data 2019*, 5213–5222. doi:10.1109/BigData47090.2019.9006277.
- Di Vaio, Assunta, and Luisa Varriale. 2019. "Blockchain Technology in Supply Chain Management for Sustainable Performance: Evidence from the Airport Industry." *International Journal of Information Management* 52 (March). Elsevier: 0–1. doi:10.1016/j.ijinfomgt.2019.09.010.
- Dietrich, F., A. Turgut, D. Palm, and L. Louw. 2020. "Smart Contract-Based Blockchain Solution to Reduce Supply Chain Risks." *IFIP Advances in Information and Communication Technology*. Vol. 592 IFIP. doi:10.1007/978-3-030-57997-5_20.
- Dolgui, Alexandre, Dmitry Ivanov, Semyon Potryasaev, Boris Sokolov, Marina Ivanova, and Frank Werner. 2020. "Blockchain-Oriented Dynamic Modelling of Smart Contract Design and Execution in the Supply Chain." *International Journal of Production Research* 58 (7). Taylor & Francis: 2184–2199. doi:10.1080/00207543.2019.1627439.
- Du, M., Q. Chen, J. Xiao, H. Yang, and X. Ma. 2020. "Supply Chain Finance Innovation Using Blockchain." *IEEE Transactions on Engineering Management* 67 (4): 1045–1058. doi:10.1109/TEM.2020.2971858.
- Dubey, R., A. Gunasekaran, D.J. Bryde, Y.K. Dwivedi, and T. Papadopoulos. 2020. "Blockchain Technology for Enhancing Swift-Trust, Collaboration and Resilience within a Humanitarian Supply Chain Setting." *International Journal of Production Research* 58 (11): 3381–3398. doi:10.1080/00207543.2020.1722860.
- Durach, C.F., T. Blesik, M. von Düring, and M. Bick. 2020. "Blockchain Applications in Supply Chain Transactions." *Journal of Business Logistics*. doi:10.1111/jbl.12238.
- Dutta, P., T.-M. Choi, S. Somani, and R. Butala. 2020. "Blockchain Technology in Supply Chain Operations: Applications, Challenges and Research Opportunities." *Transportation Research Part E: Logistics and Transportation Review* 142. doi:10.1016/j.tre.2020.102067.
- Dwivedi, S.K. Sanjeev Kumar S.K., Ruhul Amin, and Satyanarayana Vollala. 2020. "Blockchain Based Secured Information Sharing Protocol in Supply Chain Management System with Key Distribution Mechanism." *Journal of Information Security and Applications* 54. Elsevier Ltd. doi:10.1016/j.jisa.2020.102554.

- ElMessiry, M., and A. ElMessiry. 2018. "Blockchain Framework for Textile Supply Chain Management: Improving Transparency, Traceability, and Quality." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 10974 LNCS. doi:10.1007/978-3-319-94478-4_15.
- Epps, Tracey, Blake Carey, and Tess Upperton. 2019. "Revolutionizing Global Supply Chains One Block at a Time: Growing International Trade with Blockchain: Are International Rules up to the Task?" *Global Trade and Customs Journal* 14 (4): 136–145.
- Esmailian, Behzad, Joe Sarkis, Kemper Lewis, and Sara Behdad. 2020. "Resources , Conservation & Recycling Blockchain for the Future of Sustainable Supply Chain Management in Industry 4 . 0." *Resources, Conservation and Recycling* 163 (December 2019). Elsevier: 105064. doi:10.1016/j.resconrec.2020.105064.
- Fan, Z.-P., X.-Y. Wu, and B.-B. Cao. 2020. "Considering the Traceability Awareness of Consumers: Should the Supply Chain Adopt the Blockchain Technology?" *Annals of Operations Research*. doi:10.1007/s10479-020-03729-y.
- Fernandez, A., A. Waghmare, and S. Tripathi. 2020. "Agricultural Supply Chain Using Blockchain." *Lecture Notes in Mechanical Engineering*. doi:10.1007/978-981-15-4485-9_14.
- Fernández-Caramés, T.M. Tiago M., Oscar Blanco-Novoa, Iván Froiz-Míguez, and Paula Fraga-Lamas. 2019. "Towards an Autonomous Industry 4.0 Warehouse: A UAV and Blockchain-Based System for Inventory and Traceability Applications in Big Data-Driven Supply Chain Management." *Sensors (Basel, Switzerland)* 19 (10). doi:10.3390/s19102394.
- Figorilli, S., F. Antonucci, C. Costa, F. Pallottino, L. Raso, M. Castiglione, E. Pinci, et al. 2018. "A Blockchain Implementation Prototype for the Electronic Open Source Traceability of Wood along the Whole Supply Chain." *Sensors (Switzerland)* 18 (9). doi:10.3390/s18093133.
- Filimonau, Viachaslau, and Elena Naumova. 2020. "The Blockchain Technology and the Scope of Its Application in Hospitality Operations." *International Journal of Hospitality Management* 87 (September). Elsevier: 102383. doi:10.1016/j.ijhm.2019.102383.
- Fitriawijaya, A., T. Hsin-Hsuan, and J. Taysheng. 2019. "A Blockchain Approach to Supply Chain Management in a BIM-Enabled Environment." In *Intelligent and Informed - Proceedings of the 24th International Conference on Computer-Aided Architectural Design Research in Asia, CAADRIA 2019*, 2:411–420.
- Flores, L., Y. Sanchez, E. Ramos, F. Sotelo, and N. Hamoud. 2021. *Blockchain in Agribusiness Supply Chain Management: A Traceability Perspective. Advances in Intelligent Systems and Computing*. Vol. 1213 AISC. doi:10.1007/978-3-030-51328-3_64.
- Fosso Wamba, Samuel. 2019. "Continuance Intention in Blockchain-Enabled Supply Chain Applications: Modelling the Moderating Effect of Supply Chain Stakeholders Trust". *Lecture Notes in Business Information Processing*. Vol. 341. Springer International Publishing. doi:10.1007/978-3-030-11395-7_4.
- Fosso Wamba, S., Maciel M.M. Maciel M.M. Queiroz, and Laura Trinchera. 2020. "Dynamics between Blockchain Adoption Determinants and Supply Chain Performance: An Empirical Investigation." *International Journal of Production Economics* 229 (April). Elsevier B.V.: 107791. doi:10.1016/j.ijpe.2020.107791.
- Fu, Y., and J. Zhu. 2019. "Operation Mechanisms for Intelligent Logistics System: A Blockchain Perspective." *IEEE Access* 7: 144202–144213. doi:10.1109/ACCESS.2019.2945078.
- Fu, Y., and J. Zhu. 2019. "Big Production Enterprise Supply Chain Endogenous Risk Management Based on Blockchain." *IEEE Access* 7: 15310–15319. doi:10.1109/ACCESS.2019.2895327.
- Gayialis, S.P., E. Kechagias, G.A. Papadopoulos, and G.D. Konstantakopoulos. 2019. *Design of a Blockchain-Driven System for Product Counterfeiting Restraint in the Supply Chain. IFIP Advances in Information and Communication Technology*. Vol. 566. doi:10.1007/978-3-030-30000-5_59.
- Ghode, D., V. Yadav, R. Jain, and G. Soni. 2020. "Adoption of Blockchain in Supply Chain: An Analysis of Influencing Factors." *Journal of Enterprise Information Management* 33 (3): 437–456. doi:10.1108/JEIM-07-2019-0186.
- Ghode, D.J., V. Yadav, R. Jain, and G. Soni. 2020. "Blockchain Adoption in the Supply Chain: An Appraisal on Challenges." *Journal of Manufacturing Technology Management*. doi:10.1108/JMTM-11-2019-0395.
- Gökalp, Ebru, M.O. Mert Onuralp Gökalp, and Selin Çoban. 2020. "Blockchain-Based Supply Chain Management: Understanding the Determinants of Adoption in the Context of Organizations." *Information Systems Management* 00 (00). Taylor & Francis: 1–22. doi:10.1080/10580530.2020.1812014.
- Gopalakrishnan, Praveen Kumare P.K., and Sara Behdad. 2019. "A Conceptual Framework for Using Videogrammetry in Blockchain Platforms for Food Supply Chain Traceability." *Proceedings of the ASME Design Engineering Technical Conference* 4: 1–12. doi:10.1115/DETC2019-97527.
- Grest, M., M. Lauras, A. Montarnal, A. Sarazin, and G. Bousseau. 2019. "A Meta Model for a Blockchain-Based Supply Chain Traceability." In *Proceedings of the 2019 International Conference on Industrial Engineering and Systems Management, IESM 2019*. doi:10.1109/IESM45758.2019.8948159.
- Guo, Shaoyong, Yuanyuan Qi, Peng Yu, Siya Xu, and Feng Qi. 2020. "When Network Operation Meets Blockchain: An Artificial-Intelligence-Driven Customization Service for Trusted Virtual Resources of IoT." *IEEE Network* 34 (5): 46–53. doi:10.1109/MNET.011.2000028.
- Gurucharan, S.B., V. Harshavardhan, S.P. Gokarnkar, and B. Ravishankar. 2020. "Adoption of Blockchain in the Supply Chain to Improve Quality of Product and Customer Service in Manufacturing Sectors." In *2020 International Conference on Mainstreaming Block Chain Implementation, ICOMBI 2020*. doi:10.23919/ICOMBI48604.2020.9203060.

- Habib, M.A., M.B. Sardar, S. Jabbar, C.M.N. Faisal, N. Mahmood, and M. Ahmad. 2020. "Blockchain-Based Supply Chain for the Automation of Transaction Process: Case Study Based Validation." In *2020 International Conference on Engineering and Emerging Technologies, ICEET 2020*. doi:10.1109/ICEET48479.2020.9048213.
- Hackius, N., and M. Petersen. 2020. "Translating High Hopes into Tangible Benefits: How Incumbents in Supply Chain and Logistics Approach Blockchain." *IEEE Access* 8: 34993–35003. doi:10.1109/ACCESS.2020.2974622.
- Hader, M., A. Elmhamedi, and A. Abouabdellah. 2020. "Blockchain Integrated ERP for a Better Supply Chain Management." In *2020 IEEE 7th International Conference on Industrial Engineering and Applications, ICIEA 2020*, 139–143. doi:10.1109/ICIEA49774.2020.9102084.
- Hald, Kim Sundtoft K.S. Kim Sundtoft, and Aseem Kinra. 2019. "How the Blockchain Enables and Constrains Supply Chain Performance." *International Journal of Physical Distribution and Logistics Management* 49 (4): 376–397. doi:10.1108/IJPDLM-02-2019-0063.
- Harshavardhan Reddy, B., Y. Aravind Reddy, and K. Sashi Rekha. 2019. "Blockchain: To Improve Economic Efficiency and Supply Chain Management in Agriculture." *International Journal of Innovative Technology and Exploring Engineering* 8 (12): 4999–5004. doi:10.35940/ijitee.L3749.1081219.
- Härtling, Ralf-Christian R.-C., Alexander Sprengel, Katja Wottle, and Julia Rettenmaier. 2020. "Potentials of Blockchain Technologies in Supply Chain Management - A Conceptual Model." *Procedia Computer Science* 176. Elsevier B.V.: 1950–1959. doi:10.1016/j.procs.2020.09.334.
- Hayati, H., and I. Gusti Bagus Baskara Nugraha. 2018. "Blockchain Based Traceability System in Food Supply Chain." In *2018 International Seminar on Research of Information Technology and Intelligent Systems, ISRITI 2018*, 120–125. doi:10.1109/ISRITI.2018.8864477.
- Hayrutdinov, S., M.S.R. Saeed, and A. Rajapov. 2020. "Coordination of Supply Chain under Blockchain System-Based Product Lifecycle Information Sharing Effort." *Journal of Advanced Transportation* 2020. doi:10.1155/2020/5635404.
- He, S., C. Xing, and L.-J. Zhang. 2018. "A Business-Oriented Schema for Blockchain Network Operation." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 10974 LNCS. doi:10.1007/978-3-319-94478-4_21.
- Hegde, B., B. Ravishankar, and M. Appaiah. 2020. "Agricultural Supply Chain Management Using Blockchain Technology." In *2020 International Conference on Mainstreaming Block Chain Implementation, ICOMBI 2020*. doi:10.23919/ICOMBI48604.2020.9203259.
- Helo, P., and A.H.M. Shamsuzzoha. 2020. "Real-Time Supply Chain—A Blockchain Architecture for Project Deliveries." *Robotics and Computer-Integrated Manufacturing* 63. doi:10.1016/j.rcim.2019.101909.
- Hinckeldeyn, J., and K. Jochen. 2018. "(Short Paper) Developing a Smart Storage Container for a Blockchain-Based Supply Chain Application." In *Proceedings - 2018 Crypto Valley Conference on Blockchain Technology, CVCBT 2018*, 97–100. doi:10.1109/CVCBT.2018.00017.
- Hofman, W.J. Wout J. 2019. "A Methodological Approach for Development and Deployment of Data Sharing in Complex Organizational Supply and Logistics Networks with Blockchain Technology." *IFAC-PapersOnLine* 52 (3). Elsevier B.V.: 55–60. doi:10.1016/j.ifacol.2019.06.010.
- Holland, Martin, J. Stjepandic, and C. Nigischer. 2018. "Intellectual Property Protection of 3D Print Supply Chain with Blockchain Technology." In *2018 IEEE International Conference on Engineering, Technology and Innovation, ICE/ITMC 2018 - Proceedings*. doi:10.1109/ICE.2018.8436315.
- Howson, P. 2020. "Building Trust and Equity in Marine Conservation and Fisheries Supply Chain Management with Blockchain." *Marine Policy* 115. doi:10.1016/j.marpol.2020.103873.
- Huang, H., X. Zhou, and J. Liu. 2019. "Food Supply Chain Traceability Scheme Based on Blockchain and EPC Technology." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11911 LNCS. doi:10.1007/978-3-030-34083-4_4.
- Imeri, A., N. Agoulmine, C. Feltus, and D. Khadraoui. 2019. "Blockchain: Analysis of the New Technological Components as Opportunity to Solve the Trust Issues in Supply Chain Management." *Advances in Intelligent Systems and Computing*. Vol. 998. doi:10.1007/978-3-030-22868-2_36.
- Iqbal, R., and T.A. Butt. 2020. "Safe Farming as a Service of Blockchain-Based Supply Chain Management for Improved Transparency." *Cluster Computing* 23 (3): 2139–2150. doi:10.1007/s10586-020-03092-4.
- Irannezhad, Elnaz. 2020. "Is Blockchain a Solution for Logistics and Freight Transportation Problems?" *Transportation Research Procedia* 48 (2018). Elsevier B.V.: 290–306. doi:10.1016/j.trpro.2020.08.023.
- Issaoui, Yassine, Azeddine Khiat, Ayoub Bahnasse, and Hassan Ouajji. 2019. "Smart Logistics : Study of the Application of Blockchain Technology." *Procedia Computer Science* 160 (2018). Elsevier B.V.: 266–271. doi:10.1016/j.procs.2019.09.467.
- Jain, G., H. Singh, K.R. Chaturvedi, and S. Rakesh. 2020. "Blockchain in Logistics Industry: In Fizz Customer Trust or Not." *Journal of Enterprise Information Management* 33 (3): 541–558. doi:10.1108/JEIM-06-2018-0142.
- Jamil, F., L. Hang, K. Kim, and D. Kim. 2019. "A Novel Medical Blockchain Model for Drug Supply Chain Integrity Management in a Smart Hospital." *Electronics (Switzerland)* 8 (5). doi:10.3390/electronics8050505.
- Jangirala, Srinivas, A.K. Ashok Kumar Das, A.V. Vasilakos, Senior Member, and A.V. Vasilakos. 2020. "Designing Secure Lightweight Blockchain-Enabled RFID-Based Authentication Protocol for Supply Chains in 5G Mobile Edge Computing Environment." *IEEE Transactions on Industrial Informatics* 16 (11). IEEE: 7081–7093. doi:10.1109/TII.2019.2942389.

- Jayaraman, R., K. Saleh, and N. King. 2019. "Improving Opportunities in Healthcare Supply Chain Processes via the Internet of Things and Blockchain Technology." *International Journal of Healthcare Information Systems and Informatics* 14 (2): 49–65. doi:10.4018/IJHISI.2019040104.
- Jiang, H., X. Sun, and X. Li. 2020. "Research on Traceability of Agricultural Products Supply Chain System Based on Blockchain and Internet of Things Technology." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 12239 LNCS. doi:10.1007/978-3-030-57884-8_62.
- Kaid, D., and M.M. Eljazzar. 2019. "Applying Blockchain to Automate Installments Payment between Supply Chain Parties." In *ICENCO 2018 - 14th International Computer Engineering Conference: Secure Smart Societies*, 231–235. doi:10.1109/ICENCO.2018.8636131.
- Kamble, S., A. Gunasekaran, and H. Arha. 2019. "Understanding the Blockchain Technology Adoption in Supply Chains-Indian Context." *International Journal of Production Research* 57 (7): 2009–2033. doi:10.1080/00207543.2018.1518610.
- Kamble, S.S., A. Gunasekaran, and R. Sharma. 2020. "Modeling the Blockchain Enabled Traceability in Agriculture Supply Chain." *International Journal of Information Management* 52. doi:10.1016/j.ijinfomgt.2019.05.023.
- Karumanchi, M.D., J.I. Sheeba, and S.P. Devaneyan. 2019. "Cloud Based Supply Chain Management System Using Blockchain." In *4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, ICEECCOT 2019*, 390–395. doi:10.1109/ICEECCOT46775.2019.9114692.
- Katsikouli, Panagiota, Amelie Sina Wilde, Nicola Dragoni, and Henning Høgh-Jensen. 2020. "On the Benefits and Challenges of Blockchains for Managing Food Supply Chains." *Journal of the Science of Food and Agriculture*, no. July. doi:10.1002/jsfa.10883.
- Kayikci, Yaşanur, Nachiappan Subramanian, Manoj Dora, and Manjot Singh M.S. Bhatia. 2020. "Food Supply Chain in the Era of Industry 4.0: Blockchain Technology Implementation Opportunities and Impediments from the Perspective of People, Process, Performance, and Technology." *Production Planning and Control* 0 (0). Taylor & Francis: 1–21. doi:10.1080/09537287.2020.1810757.
- Keivanpour, Samira, Amar Ramudhin, and Daoud Ait Kadi. 2019. "Towards the Blockchain-Enabled Offshore Wind Energy Supply Chain". *Advances in Intelligent Systems and Computing*. Vol. 1. Springer International Publishing. doi:10.1007/978-3-030-02686-8_67.
- Keivanpour, Samira, Amar Ramudhin, and Daoud Ait Kadi. 2020. "An Empirical Analysis of Complexity Management for Offshore Wind Energy Supply Chains and the Benefits of Blockchain Adoption." *Civil Engineering and Environmental Systems* 37 (3). Taylor & Francis: 117–142. doi:10.1080/10286608.2020.1810674.
- Kouhizadeh, Mahtab, Sara Saberi, and Joseph Sarkis. 2021. "Blockchain Technology and the Sustainable Supply Chain: Theoretically Exploring Adoption Barriers." *International Journal of Production Economics* 231 (May 2020). Elsevier B.V.: 107831. doi:10.1016/j.ijpe.2020.107831.
- Kim, H.M., and M. Laskowski. 2018. "Toward an Ontology-Driven Blockchain Design for Supply-Chain Provenance." *Intelligent Systems in Accounting, Finance and Management* 25 (1): 18–27. doi:10.1002/isaf.1424.
- Kim, J.-S., and N. Shin. 2019. "The Impact of Blockchain Technology Application on Supply Chain Partnership and Performance." *Sustainability (Switzerland)* 11 (21). doi:10.3390/su11216181.
- Kodym, O., L. Kubáč, and L. Kavka. 2020. "Risks Associated with Logistics 4.0 and Their Minimization Using Blockchain." *Open Engineering* 10 (1): 74–85. doi:10.1515/eng-2020-0017.
- Köhler, Susanne, and Massimo Pizzol. 2020. "Technology Assessment of Blockchain-Based Technologies in the Food Supply Chain." *Journal of Cleaner Production* 269. doi:10.1016/j.jclepro.2020.122193.
- Koirala, R.C., K. Dahal, and S. Matalonga. 2019. "Supply Chain Using Smart Contract: A Blockchain Enabled Model with Traceability and Ownership Management." In *Proceedings of the 9th International Conference On Cloud Computing, Data Science and Engineering, Confluence 2019*, 538–544. doi:10.1109/CONFLUENCE.2019.8776900.
- Koirala, R.C., K. Dahal, S. Matalonga, and R. Rijal. 2019. "A Supply Chain Model with Blockchain-Enabled Reverse Auction Bidding Process for Transparency and Efficiency." In *2019 13th International Conference on Software, Knowledge, Information Management and Applications, SKIMA 2019*. doi:10.1109/SKIMA47702.2019.8982476.
- Kopyto, Matthias, Sabrina Lechler, Heiko A. H.A. Heiko A. H.A. von der Gracht, and Evi Hartmann. 2020. "Potentials of Blockchain Technology in Supply Chain Management: Long-Term Judgments of an International Expert Panel." *Technological Forecasting and Social Change* 161 (September). Elsevier: 120330. doi:10.1016/j.techfore.2020.120330.
- Kouhizadeh, M., and J. Sarkis. 2018. "Blockchain Practices, Potentials, and Perspectives in Greening Supply Chains." *Sustainability (Switzerland)* 10 (10). doi:10.3390/su10103652.
- Kshetri, Nir. 2018. "Blockchain's Roles in Meeting Key Supply Chain Management Objectives." *International Journal of Information Management* 39 (December 2017). Elsevier: 80–89. doi:10.1016/j.ijinfomgt.2017.12.005.
- Kuhi, K., K. Kaare, and O. Koppel. 2018. "Ensuring Performance Measurement Integrity in Logistics Using Blockchain." In *Proceedings of the 2018 IEEE International Conference on Service Operations and Logistics, and Informatics, SOLI 2018*, 256–261. doi:10.1109/SOLI.2018.8476737.
- Kulkarni, A., N.A. Hazari, and M. Niamat. 2019. "A Blockchain Technology Approach for the Security and Trust of the IC Supply Chain." In *Proceedings of the IEEE National Aerospace Electronics Conference, NAECON, 2019-July*:249–252. doi:10.1109/NAECON46414.2019.9058027.
- Kumar, A., R. Liu, and Z. Shan. 2020. "Is Blockchain a Silver Bullet for Supply Chain Management? Technical Challenges and Research Opportunities." *Decision Sciences* 51 (1): 8–37. doi:10.1111/deci.12396.

- Kumar, R., and R. Tripathi. 2019. "Traceability of Counterfeit Medicine Supply Chain through Blockchain." In *2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019*, 568–570. doi:10.1109/COMSNETS.2019.8711418.
- Kuo, S.-S. Shi Syun S.-S., and Wei Tsung W.-T. Wei Tsung Su. 2020. "A Blockchain-Indexed Storage Supporting Scalable Data Integrity in Supply Chain Traceability." *Proceedings - 2020 IEEE International Conference on Smart Internet of Things, SmartIoT 2020*, 348–349. doi:10.1109/SmartIoT49966.2020.00064.
- Kuo, T.-T., R.A. Gabriel, K.R. Cidambi, and L. Ohno-Machado. 2020. "EXpectation Propagation LOGistic REgRession on Permissioned BlockCHAIN (ExplorerChain): Decentralized Online Healthcare/Genomics Predictive Model Learning." *Journal of the American Medical Informatics Association* 27 (5): 747–756. doi:10.1093/jamia/ocaa023.
- Kurnia, E., T. Djatna, and F. Udin. 2020. "Analysis and Design of Transparent Smart Contract Based on Blockchain Technology for Supply Chain in 'Gasol Flour' Industry." *IOP Conference Series: Earth and Environmental Science* 443 (1). doi:10.1088/1755-1315/443/1/012027.
- Kurpjuweit, S., C.G. Schmidt, M. Klöckner, and S.M. Wagner. 2019. "Blockchain in Additive Manufacturing and Its Impact on Supply Chains." *Journal of Business Logistics*. doi:10.1111/jbl.12231.
- Lambourdiere, Eric, and Elsa Corbin. 2020. "Blockchain and Maritime Supply-Chain Performance: Dynamic Capabilities Perspective." *Worldwide Hospitality and Tourism Themes* 12 (1): 24–34. doi:10.1108/WHATT-10-2019-0069.
- Latif, R.M.A., M. Farhan, O. Rizwan, M. Hussain, S. Jabbar, and S. Khalid. 2020. "Retail Level Blockchain Transformation for Product Supply Chain Using Truffle Development Platform." *Cluster Computing*. doi:10.1007/s10586-020-03165-4.
- Leng, K., Y. Bi, L. Jing, H.-C. Fu, and I. Van Nieuwenhuysse. 2018. "Research on Agricultural Supply Chain System with Double Chain Architecture Based on Blockchain Technology." *Future Generation Computer Systems* 86: 641–649. doi:10.1016/j.future.2018.04.061.
- Li, J., A. Maiti, M. Springer, and T. Gray. 2020. "Blockchain for Supply Chain Quality Management: Challenges and Opportunities in Context of Open Manufacturing and Industrial Internet of Things." *International Journal of Computer Integrated Manufacturing*. doi:10.1080/0951192X.2020.1815853.
- Li, J., F. Qu, X. Tu, T. Fu, J. Guo, and J. Zhu. 2018. "Public Philanthropy Logistics Platform Based on Blockchain Technology for Social Welfare Maximization." In *8th International Conference on Logistics, Informatics and Service Sciences, LISS 2018 - Proceeding*. doi:10.1109/LISS.2018.8593217.
- Li, M., and G.Q. Huang. 2019. "Blockchain-Enabled Workflow Management System for Fine-Grained Resource Sharing in E-Commerce Logistics." In *IEEE International Conference on Automation Science and Engineering*, 2019-Augus:751–755. doi:10.1109/COASE.2019.8843250.
- Li, M., L. Shen, and G.Q. Huang. 2019. "Blockchain-Enabled Workflow Operating System for Logistics Resources Sharing in E-Commerce Logistics Real Estate Service." *Computers and Industrial Engineering* 135: 950–969. doi:10.1016/j.cie.2019.07.003.
- Li, Ming, Saijun Shao, Qiwen Ye, Gangyan Xu, and George Q. G.Q. George Q. G.Q. Huang. 2020. "Blockchain-Enabled Logistics Finance Execution Platform for Capital-Constrained E-Commerce Retail." *Robotics and Computer-Integrated Manufacturing* 65 (February). Elsevier Ltd: 101962. doi:10.1016/j.rcim.2020.101962.
- Li, Y., X. Chu, D. Tian, J. Feng, and W. Mu. 2020. *A Traceability Architecture for the Fresh Food Supply Chain Based on Blockchain Technology in China. Communications in Computer and Information Science*. Vol. 1252 CCIS. doi:10.1007/978-981-15-8083-3_31.
- Li, Z., H. Guo, A.V. Barenji, W.M. Wang, Y. Guan, and G.Q. Huang. 2020. "A Sustainable Production Capability Evaluation Mechanism Based on Blockchain, LSTM, Analytic Hierarchy Process for Supply Chain Network." *International Journal of Production Research*. doi:10.1080/00207543.2020.1740342.
- Li, Z., H. Wu, B. King, Z. Ben Miled, J. Wassick, and J. Tazelaar. 2018. "A Hybrid Blockchain Ledger for Supply Chain Visibility." In *Proceedings - 17th International Symposium on Parallel and Distributed Computing, ISPDC 2018*, 118–125. doi:10.1109/ISPDC2018.2018.00025.
- Liang, X., S. Shetty, D. Tosh, Y. Ji, and D. Li. 2018. "Towards a Reliable and Accountable Cyber Supply Chain in Energy Delivery System Using Blockchain." *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST*. Vol. 255. doi:10.1007/978-3-030-01704-0_3.
- Liang, Z., Y. Huang, Z. Cao, T. Liu, and Y. Wang. 2019. "Creativity in Trusted Data: Research on Application of Blockchain in Supply Chain." *International Journal of Performability Engineering* 15 (2): 526–535. doi:10.23940/ijpe.19.02.p17.526535.
- Liao, Da Yin D.-Y., and Xuehong Wang. 2018. "Applications of Blockchain Technology to Logistics Management in Integrated Casinos and Entertainment." *Informatics* 5 (4). doi:10.3390/informatics5040044.
- Liu, H., Z. Li, and N. Cao. 2018. "Framework Design of Financial Service Platform for Tobacco Supply Chain Based on Blockchain." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11338 LNCS. doi:10.1007/978-3-030-05234-8_18.
- Liu, J., and P. Jiang. 2020. "Consortium Blockchain-Driven Decentralized Organization and Operation for Manufacturing Community in Social Manufacturing." In *IEEE International Conference on Automation Science and Engineering*, 2020-Augus:576–581. doi:10.1109/CASE48305.2020.9216738.
- Liu, L., F. Li, and E. Qi. 2019. "Research on Risk Avoidance and Coordination of Supply Chain Subject Based on Blockchain Technology." *Sustainability (Switzerland)* 11 (7). doi:10.3390/su10022182.

- Liu, L.J., and C. Li. 2020. "Research on Supply Chain Architecture of Logistics Network Platform Based on Blockchain Technology." *International Journal of Circuits, Systems and Signal Processing* 14: 526–532. doi:10.46300/9106.2020.14.68.
- Liu, P., Y. Long, H.-C. Song, and Y.-D. He. 2020. "Investment Decision and Coordination of Green Agri-Food Supply Chain Considering Information Service Based on Blockchain and Big Data." *Journal of Cleaner Production* 277. doi:10.1016/j.jclepro.2020.123646.
- Liu, Xinlai, Haoye Wu, Wei Wu, Yelin Fu, and George Q. G.Q. Huang. 2021. "Blockchain-Enabled Esg Reporting Framework for Sustainable Supply Chain." *Smart Innovation, Systems and Technologies* 200: 403–413. doi:10.1007/978-981-15-8131-1_36.
- Liu, Zhiyong, and Zipei Li. 2020. "A Blockchain-Based Framework of Cross-Border e-Commerce Supply Chain." *International Journal of Information Management* 52 (March). Elsevier: 102059. doi:10.1016/j.ijinfomgt.2019.102059.
- Lohmer, Jacob, Niels Bugert, and Rainer Lasch. 2020. "Analysis of Resilience Strategies and Ripple Effect in Blockchain-Coordinated Supply Chains: An Agent-Based Simulation Study." *International Journal of Production Economics* 228 (July). Elsevier B.V.: 107882. doi:10.1016/j.ijpe.2020.107882.
- Lohmer, Jacob, and Rainer Lasch. 2020. "Blockchain in Operations Management and Manufacturing: Potential and Barriers." *Computers and Industrial Engineering* 149 (March). Elsevier Ltd: 106789. doi:10.1016/j.cie.2020.106789.
- Longo, F., L. Nicoletti, A. Padovano, G. d'Atri, and M. Forte. 2019. "Blockchain-Enabled Supply Chain: An Experimental Study." *Computers and Industrial Engineering* 136: 57–69. doi:10.1016/j.cie.2019.07.026.
- Longo, Francesco, Letizia Nicoletti, and Antonio Padovano. 2020. "Estimating the Impact of Blockchain Adoption in the Food Processing Industry and Supply Chain." *International Journal of Food Engineering* 16 (5–6): 1–18. doi:10.1515/ijfe-2019-0109.
- López-Pimentel, J.C., O. Rojas, M. Alcaraz-Rivera, G. Sosa-Gómez, and L. Verteramo-Chiu. 2020. "Automating the Avocado Supply Chain with Blockchain and Off-Chain." In *Interconnected Supply Chains in an Era of Innovation - Proceedings of the 8th International Conference on Information Systems, Logistics and Supply Chain, ILS 2020*, 292–298.
- Luo, Y., and C. Xie. 2021. "Traceability System Construction of Agricultural Products Cross-Border E-Commerce Logistics from the Perspective of Blockchain Technology." *Advances in Intelligent Systems and Computing*. Vol. 1233 AISC. doi:10.1007/978-3-030-51431-0_16.
- Maden, A. 2020. *Suitability Evaluation of Blockchain-Based Systems Using Fuzzy ANP- A Case Study in a Logistics Company. Advances in Intelligent Systems and Computing*. Vol. 1029. doi:10.1007/978-3-030-23756-1_50.
- Madhwal, Yash, and Peter B. P.B. Panfilov. 2017. "Blockchain and Supply Chain Management: Aircrafts' Parts' Business Case." *Annals of DAAAM and Proceedings of the International DAAAM Symposium*, 1051–1056. doi:10.2507/28th.daaam.proceedings.146.
- Madumidha, S., P.S. Ranjani, S.S. Varsinee, and P.S. Sundari. 2019. "Transparency and Traceability: In Food Supply Chain System Using Blockchain Technology with Internet of Things." In *Proceedings of the International Conference on Trends in Electronics and Informatics, ICOEI 2019*, 983–987. doi:10.1109/ICOEI.2019.8862726.
- Madumidha, S., P. Siva Ranjani, U. Vandhana, and B. Venmuhilan. 2019. "A Theoretical Implementation: Agriculture-Food Supply Chain Management Using Blockchain Technology." In *Proceedings of the 2019 TEQIP - III Sponsored International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks, IMICPW 2019*, 174–178. doi:10.1109/IMICPW.2019.8933270.
- Malik, Sidra, V. Dedeoglu, S.S. Kanhere, and R. Jurdak. 2019. "TrustChain: Trust Management in Blockchain and Iot Supported Supply Chains." In *Proceedings - 2019 2nd IEEE International Conference on Blockchain, Blockchain 2019*, 184–193. doi:10.1109/Blockchain.2019.00032.
- Malik, Sidra, S.S. Salil S. Kanhere, and Raja Jurdak. 2018. "ProductChain: Scalable Blockchain Framework to Support Provenance in Supply Chains." In *NCA 2018 - 2018 IEEE 17th International Symposium on Network Computing and Applications*. IEEE. doi:10.1109/NCA.2018.8548322.
- Manolache, M.A., and N. Tapus. 2019. "Universal Resource Management and Logistics Using Blockchain Technology." In *Proceedings - 2019 22nd International Conference on Control Systems and Computer Science, CSCS 2019*, 575–582. doi:10.1109/CSCS.2019.00105.
- Manupati, V.K., T. Schoenherr, M. Ramkumar, S.M. Wagner, S.K. Pabba, and R. Inder Raj Singh. 2020. "A Blockchain-Based Approach for a Multi-Echelon Sustainable Supply Chain." *International Journal of Production Research* 58 (7): 2222–2241. doi:10.1080/00207543.2019.1683248.
- Mao, D., F. Wang, Z. Hao, and H. Li. 2018. "Credit Evaluation System Based on Blockchain for Multiple Stakeholders in the Food Supply Chain." *International Journal of Environmental Research and Public Health* 15 (8). doi:10.3390/ijerph15081627.
- Marinello, F., M. Atzori, L. Lisi, D. Boscaro, and A. Pezzuolo. 2017. "Development of a Traceability System for the Animal Product Supply Chain Based on Blockchain Technology." In *Precision Livestock Farming 2017 - Papers Presented at the 8th European Conference on Precision Livestock Farming, ECPLF 2017*, 258–268.
- Maroun, Elias Abou E.A., and Jay Daniel. 2019. "Opportunities for Use of Blockchain Technology in Supply Chains: Australian Manufacturer Case Study." *Proceedings of the International Conference on Industrial Engineering and Operations Management 2019 (MAR)*: 1603–1613.

- Martins, G.J.D.U., J.Z. Reis, B.C.A. Petroni, R.F. Gonçalves, and B. Andrić. 2020. *Evaluating a Blockchain-Based Supply Chain Purchasing Process Through Simulation. IFIP Advances in Information and Communication Technology*. Vol. 591 IFIP. doi:10.1007/978-3-030-57993-7_37.
- Mattke, J., A. Hund, C. Maier, and T. Weitzel. 2019. "How an Enterprise Blockchain Application in the U.S. Pharmaceuticals Supply Chain Is Saving Lives." *MIS Quarterly Executive* 18 (4): 245–261. doi:10.17705/2msqe.00019.
- Meng, M.H., and Y. Qian. 2018. "A Blockchain Aided Metric for Predictive Delivery Performance in Supply Chain Management." In *Proceedings of the 2018 IEEE International Conference on Service Operations and Logistics, and Informatics, SOLI 2018*, 285–290. doi:10.1109/SOLI.2018.8476723.
- Merkaš, Z., D. Perkov, and V. Bonin. 2020. "The Significance of Blockchain Technology in Digital Transformation of Logistics and Transportation." *International Journal of E-Services and Mobile Applications* 12 (1): 1–20. doi:10.4018/IJESMA.2020010101.
- Mezquita, Y., A. González-Briones, R. Casado-Vara, P. Chamoso, J. Prieto, and J.M. Corchado. 2020. *Blockchain-Based Architecture: A MAS Proposal for Efficient Agri-Food Supply Chains. Advances in Intelligent Systems and Computing*. Vol. 1006. doi:10.1007/978-3-030-24097-4_11.
- Min, Hokey. 2019. "Blockchain Technology for Enhancing Supply Chain Resilience." *Business Horizons* 62 (1). "Kelley School of Business, Indiana University": 35–45. doi:10.1016/j.bushor.2018.08.012.
- Mirabelli, Giovanni, and Vittorio Solina. 2020. "Blockchain and Agricultural Supply Chains Traceability: Research Trends and Future Challenges." *Procedia Manufacturing* 42 (2019). Elsevier B.V.: 414–421. doi:10.1016/j.promfg.2020.02.054.
- Molina, J.C., D.T. Delgado, and G. Tarazona. 2019. *Using Blockchain for Traceability in the Drug Supply Chain. Communications in Computer and Information Science*. Vol. 1027. doi:10.1007/978-3-030-21451-7_46.
- Mondal, S., K.P. Wijewardena, S. Karuppuswami, N. Kriti, D. Kumar, and P. Chahal. 2019. "Blockchain Inspired RFID-Based Information Architecture for Food Supply Chain." *IEEE Internet of Things Journal* 6 (3): 5803–5813. doi:10.1109/JIOT.2019.2907658.
- Mondragon, A.E.C. Adrian E. Coronado, C.E.C. Christian E. Coronado Mondragon, and E.S. Etienne S. Coronado. 2018. "Exploring the Applicability of Blockchain Technology to Enhance Manufacturing Supply Chains in the Composite Materials Industry." *Proceedings of 4th IEEE International Conference on Applied System Innovation 2018, ICASI 2018*. IEEE, 1300–1303. doi:10.1109/ICASI.2018.8394531.
- Mondragon, A.E.C., C.E.C. Mondragon, and E.S. Coronado. 2020. "Feasibility of Internet of Things and Agnostic Blockchain Technology Solutions: A Case in the Fisheries Supply Chain." In *2020 IEEE 7th International Conference on Industrial Engineering and Applications, ICIEA 2020*, 504–508. doi:10.1109/ICIEA49774.2020.9102080.
- Mondragon, A.E.C., C.E. Coronado, and E.S. Coronado. 2019. "Investigating the Applicability of Distributed Ledger/Blockchain Technology in Manufacturing and Perishable Goods Supply Chains." In *2019 IEEE 6th International Conference on Industrial Engineering and Applications, ICIEA 2019*, 728–732. doi:10.1109/IEA.2019.8715005.
- Montecchi, M., K. Plangger, and M. Etter. 2019. "It's Real, Trust Me! Establishing Supply Chain Provenance Using Blockchain." *Business Horizons* 62 (3): 283–293. doi:10.1016/j.bushor.2019.01.008.
- Moudoud, H., S. Cherkaoui, and L. Khoukhi. 2019. "An IoT Blockchain Architecture Using Oracles and Smart Contracts: The Use-Case of a Food Supply Chain." In *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC*. Vol. 2019-Sept. doi:10.1109/PIMRC.2019.8904404.
- Musah, S., T.D. Medeni, and D. Soyulu. 2019. "Assessment of Role of Innovative Technology through Blockchain Technology in Ghana's Cocoa Beans Food Supply Chains." In *3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019 - Proceedings*. doi:10.1109/ISMSIT.2019.8932936.
- Mylrea, M., and S.N.G. Gourisetti. 2018. "Blockchain for Supply Chain Cybersecurity, Optimization and Compliance." In *Proceedings - Resilience Week 2018, RWS 2018*, 70–76. doi:10.1109/RWEEK.2018.8473517.
- Mylrea, M., and S.N.G. Gourisetti. 2018. "Blockchain: Next Generation Supply Chain Security for Energy Infrastructure and NERC Critical Infrastructure Protection (CIP) Compliance." In *WMSCI 2018 - 22nd World Multi-Conference on Systemics, Cybernetics and Informatics, Proceedings*, 2:53–61.
- Nandi, Madhavi Latha M.L., Santosh Nandi, Hiram Moya, and Hale Kaynak. 2020. "Blockchain Technology-Enabled Supply Chain Systems and Supply Chain Performance: A Resource-Based View." *Supply Chain Management* 25 (6): 841–862. doi:10.1108/SCM-12-2019-0444.
- Nayak, G., and A.S. Dhaigude. 2019. "A Conceptual Model of Sustainable Supply Chain Management in Small and Medium Enterprises Using Blockchain Technology." *Cogent Economics and Finance* 7 (1). doi:10.1080/23322039.2019.1667184.
- Niu, X., and Z. Li. 2019. "Research on Supply Chain Management Based on Blockchain Technology." In *Journal of Physics: Conference Series*. Vol. 1176. doi:10.1088/1742-6596/1176/4/042039.
- Oh, B., T.J. Jun, W. Yoon, Y. Lee, S. Kim, and D. Kim. 2019. "Enhancing Trust of Supply Chain Using Blockchain Platform with Robust Data Model and Verification Mechanisms." In *Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics*, 2019-Octob:3504–3511. doi:10.1109/SMC.2019.8913871.
- O'Leary, D.E. Daniel E. 2017. "Configuring Blockchain Architectures for Transaction Information in Blockchain Consortiums: The Case of Accounting and Supply Chain Systems." *Intelligent Systems in Accounting, Finance and Management* 24 (4): 138–147. doi:10.1002/isaf.1417.

- O'Leary, D.E. Daniel E. 2019. "Some Issues in Blockchain for Accounting and the Supply Chain, with an Application of Distributed Databases to Virtual Organizations." *Intelligent Systems in Accounting, Finance and Management* 26 (3): 137–149. doi:10.1002/isaf.1457.
- Orji, Ifeyinwa Juliet I.J. Ifeyinwa Juliet I.J., Simonov Kusi-Sarpong, Shuangfa Huang, and Diego Vazquez-Brust. 2020. "Evaluating the Factors That Influence Blockchain Adoption in the Freight Logistics Industry." *Transportation Research Part E: Logistics and Transportation Review* 141 (April). Elsevier: 102025. doi:10.1016/j.tre.2020.102025.
- Ozdemir, A.I., I. Erol, I.M. Ar, I. Peker, A. Asgary, T.D. Medeni, and I.T. Medeni. 2020. "The Role of Blockchain in Reducing the Impact of Barriers to Humanitarian Supply Chain Management." *International Journal of Logistics Management*. doi:10.1108/IJLM-01-2020-0058.
- Öztürk, Cihat, and Abdullah Yildizbaşı. 2020. "Barriers to Implementation of Blockchain into Supply Chain Management Using an Integrated Multi-Criteria Decision-Making Method: A Numerical Example." *Soft Computing* 24 (19): 14771–14789. doi:10.1007/s00500-020-04831-w.
- Pal, Kamalendu, and Ansar Ul Haque A.-U.-H. Ansar Ul Haque Yasar. 2020. "Internet of Things and Blockchain Technology in Apparel Manufacturing Supply Chain Data Management." *Procedia Computer Science* 170. Elsevier B.V.: 450–457. doi:10.1016/j.procs.2020.03.088.
- Peña, Mario, Juan Llivisaca, and Lorena Siguenza-Guzman. 2020. "Blockchain and Its Potential Applications in Food Supply Chain Management in Ecuador." *Advances in Intelligent Systems and Computing* 1066: 101–112. doi:10.1007/978-3-030-32022-5_10.
- Perboli, G., V. Capocasale, and D. Gotta. 2020. "Blockchain-Based Transaction Management in Smart Logistics: A Sawtooth Framework." In *Proceedings - 2020 IEEE 44th Annual Computers, Software, and Applications Conference, COMPSAC 2020*, 1713–1718. doi:10.1109/COMPSAC48688.2020.000-8.
- Perboli, G., S. Musso, and M. Rosano. 2018. "Blockchain in Logistics and Supply Chain: A Lean Approach for Designing Real-World Use Cases." *IEEE Access* 6: 62018–62028. doi:10.1109/ACCESS.2018.2875782.
- Petroni, B.C.A., E.M. de Moraes, and R.F. Gonçalves. 2018. *Big Data Analytics for Logistics and Distributions Using Blockchain. IFIP Advances in Information and Communication Technology*. Vol. 536. doi:10.1007/978-3-319-99707-0_45.
- Philipp, R., G. Prause, and L. Gerlitz. 2019. "Blockchain and Smart Contracts for Entrepreneurial Collaboration in Maritime Supply Chains." *Transport and Telecommunication* 20 (4): 365–378. doi:10.2478/tjt-2019-0030.
- Pundir, A. K., J. Devpriya, M. Chakraborty, and L. Ganpathy. 2019. "Technology Integration for Improved Supply Chain with Integration of Internet of Things and Blockchain Technology." *2019 IEEE 9th Annual Computing and Communication Workshop and Conference (CCWC)*. IEEE, 170–176.
- Qian, X., and E. Papadonikolaki. 2020. "Shifting Trust in Construction Supply Chains through Blockchain Technology." *Engineering, Construction and Architectural Management*. doi:10.1108/ECAM-12-2019-0676.
- Queiroz, M.M., and S. Fosso Wamba. 2019. "Blockchain Adoption Challenges in Supply Chain: An Empirical Investigation of the Main Drivers in India and the USA." *International Journal of Information Management* 46: 70–82. doi:10.1016/j.ijinfomgt.2018.11.021.
- Queiroz, M.M., S. Fosso Wamba, M. De Bourmont, and R. Telles. 2020. "Blockchain Adoption in Operations and Supply Chain Management: Empirical Evidence from an Emerging Economy." *International Journal of Production Research*. doi:10.1080/00207543.2020.1803511.
- Rahmadika, Sandi, B.J. Bruno Joachim Kweka, Cho Nwe Zin C.N.Z. Latt, and Kyung Hyune K.-H. Rhee. 2019. "A Preliminary Approach of Blockchain Technology in Supply Chain System." *IEEE International Conference on Data Mining Workshops, ICDMW 2018-Novem*. IEEE: 156–160. doi:10.1109/ICDMW.2018.00029.
- Rahmanzadeh, S., M.S. Pishvae, and M.R. Rasouli. 2020. "Integrated Innovative Product Design and Supply Chain Tactical Planning within a Blockchain Platform." *International Journal of Production Research* 58 (7): 2242–2262. doi:10.1080/00207543.2019.1651947.
- Rane, S.B., S.V. Thakker, and R. Kant. 2020. "Stakeholders' Involvement in Green Supply Chain: A Perspective of Blockchain IoT-Integrated Architecture." *Management of Environmental Quality: An International Journal*. doi:10.1108/MEQ-11-2019-0248.
- Reimers, T., F. Leber, and U. Lechner. 2019. "Integration of Blockchain and Internet of Things in a Car Supply Chain." In *Proceedings - 2019 IEEE International Conference on Decentralized Applications and Infrastructures, DAPPCON 2019*, 146–151. doi:10.1109/DAPPCON.2019.00028.
- Rejeb, A., J.G. Keogh, and H. Treiblmaier. 2019. "Leveraging the Internet of Things and Blockchain Technology in Supply Chain Management." *Future Internet* 11 (7). doi:10.3390/fi11070161.
- Rodríguez-Espíndola, O., S. Chowdhury, A. Beltagui, and P. Albores. 2020. "The Potential of Emergent Disruptive Technologies for Humanitarian Supply Chains: The Integration of Blockchain, Artificial Intelligence and 3D Printing." *International Journal of Production Research* 58 (15): 4610–4630. doi:10.1080/00207543.2020.1761565.
- Rodrigo, M.N.N., S. Perera, S. Senaratne, and X. Jin. 2020. "Potential Application of Blockchain Technology for Embodied Carbon Estimating in Construction Supply Chains." *Buildings* 10 (8). doi:10.3390/BUILDINGS10080140.
- Rogerson, M., and G.C. Parry. 2020. "Blockchain: Case Studies in Food Supply Chain Visibility." *Supply Chain Management* 25 (5): 601–614. doi:10.1108/SCM-08-2019-0300.
- Rožman, Nejc, Rok Vrabič, Marko Corn, Tomaž Požrl, and Janez Diaci. 2019. "Distributed Logistics Platform Based on Blockchain and IoT." *Procedia CIRP* 81. Elsevier B.V.: 826–831. doi:10.1016/j.procir.2019.03.207.

- Rubio, M.A., G.M. Tarazona, and L. Contreras. 2018. "Big Data and Blockchain Basis for Operating a New Archetype of Supply Chain." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 10943 LNCS. doi:10.1007/978-3-319-93803-5_62.
- Saberi, S., M. Kouhizadeh, J. Sarkis, and L. Shen. 2019. "Blockchain Technology and Its Relationships to Sustainable Supply Chain Management." *International Journal of Production Research* 57 (7): 2117–2135. doi:10.1080/00207543.2018.1533261.
- Safarov, D.T., and A.I. Gimazetdinov. 2019. "Application of Blockchain Computer Technology to Trace the Causes of Defects in the Supply Chains of Engineering Products." In *2019 International Multi-Conference on Industrial Engineering and Modern Technologies, FarEastCon 2019*. doi:10.1109/FarEastCon.2019.8934435.
- Sahebi, Iman Ghasemian I.G. Iman Ghasemian, Behzad Masoomi, and Shahryar Ghorbani. 2020. "Expert Oriented Approach for Analyzing the Blockchain Adoption Barriers in Humanitarian Supply Chain." *Technology in Society* 63 (May). Elsevier Ltd: 101427. doi:10.1016/j.techsoc.2020.101427.
- Salah, K., N. Nizamuddin, R. Jayaraman, and M. Omar. 2019. "Blockchain-Based Soybean Traceability in Agricultural Supply Chain." *IEEE Access* 7: 73295–73305. doi:10.1109/ACCESS.2019.2918000.
- Saputra, R.H., and M. Suryanegara. 2019. "On Developing the Model of Blockchain Technology for Logistic Services in Indonesia." In *IEEE Region 10 Humanitarian Technology Conference, R10-HTC*. Vol. 2019-Novem. doi:10.1109/R10-HTC47129.2019.9042452.
- Sato, T., and Y. Himura. 2018. "Smart-Contract Based System Operations for Permissioned Blockchain." In *2018 9th IFIP International Conference on New Technologies, Mobility and Security, NTMS 2018 - Proceedings*, 2018-Janua:1–6. doi:10.1109/NTMS.2018.8328745.
- Saurabh, Samant, and Kushankur Dey. 2020. "Blockchain Technology Adoption, Architecture, and Sustainable Agri-Food Supply Chains." *Journal of Cleaner Production*, Vol. 284. Elsevier Ltd: 124731. doi:10.1016/j.jclepro.2020.124731.
- Schmidt, Christoph G. C.G., and S.M. Stephan M. Wagner. 2019. "Blockchain and Supply Chain Relations: A Transaction Cost Theory Perspective." *Journal of Purchasing and Supply Management* 25 (4). Elsevier Ltd: 100552. doi:10.1016/j.pursup.2019.100552.
- Shahid, A., A. Almogren, N. Javaid, F.A. Al-Zahrani, M. Zuair, and M. Alam. 2020. "Blockchain-Based Agri-Food Supply Chain: A Complete Solution." *IEEE Access* 8: 69230–69243. doi:10.1109/ACCESS.2020.2986257.
- Shahid, Affaf, Umair Sarfraz, Muhammad Waseem M.W. Muhammad Waseem Malik, Muhammad Sohaib M.S. Iftikhar, Abid Jamal, and Nadeem Javaid. 2020. "Blockchain-Based Reputation System in Agri-Food Supply Chain." *Advances in Intelligent Systems and Computing* 1151 AISC (February): 12–21. doi:10.1007/978-3-030-44041-1_2.
- Shahzad, Aamir, Kaiwen Zhang, and Abdelouahed Gherbi. 2020. "Intuitive Development to Examine Collaborative Iot Supply Chain System Underlying Privacy and Security Levels and Perspective Powering through Proactive Blockchain." *Sensors (Switzerland)* 20 (13): 1–27. doi:10.3390/s20133760.
- Shakhbulatov, D., A. Arora, Z. Dong, and R. Rojas-Cessa. 2019. "Blockchain Implementation for Analysis of Carbon Footprint across Food Supply Chain." In *Proceedings - 2019 2nd IEEE International Conference on Blockchain, Blockchain 2019*, 546–551. doi:10.1109/Blockchain.2019.00079.
- Sharma, Ravi S. R.S., Stephen Wingreen, Nir Kshetri, and Tharaka M. T.M. Hewa. 2019. "Design Principles for Use Cases of Blockchain in Food Supply Chains." *25th Americas Conference on Information Systems, AMCIS 2019*, no. January.
- Sheel, Ashutosh, and Vishnu Nath. 2019. "Effect of Blockchain Technology Adoption on Supply Chain Adaptability, Agility, Alignment and Performance." *Management Research Review* 42 (12): 1353–1374. doi:10.1108/MRR-12-2018-0490.
- Sheel, Ashutosh, and Vishnu Nath. 2020. "Antecedents of Blockchain Technology Adoption Intentions in the Supply Chain." *International Journal of Business Innovation and Research* 21 (4): 564–584. doi:10.1504/IJBIR.2020.106011.
- Shi, J., D. Yi, and J. Kuang. 2019. "Pharmaceutical Supply Chain Management System with Integration of IoT and Blockchain Technology." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11911 LNCS. doi:10.1007/978-3-030-34083-4_10.
- Shoaib, M., M.K. Lim, and C. Wang. 2020. "An Integrated Framework to Prioritize Blockchain-Based Supply Chain Success Factors." *Industrial Management and Data Systems* 120 (11): 2103–2131. doi:10.1108/IMDS-04-2020-0194.
- Sidorov, M., M.T. Ong, R.V. Sridharan, J. Nakamura, R. Ohmura, and J.H. Khor. 2019. "Ultralightweight Mutual Authentication RFID Protocol for Blockchain Enabled Supply Chains." *IEEE Access* 7: 7273–7285. doi:10.1109/ACCESS.2018.2890389.
- Sinclair, D., H. Shahriar, and C. Zhang. 2019. "Security Requirement Prototyping with Hyperledger Composer for Drug Supply Chain – A Blockchain Application." In *ACM International Conference Proceeding Series*, 158–163. doi:10.1145/3309074.3309104.
- Sivula, A., A. Shamsuzzoha, and P. Helo. 2018. "Blockchain in Logistics: Mapping the Opportunities in Con-Struction Industry." In *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 2018:1954–1960.
- Sternberg, H.S., E. Hofmann, and D. Roeck. 2020. "The Struggle Is Real: Insights from a Supply Chain Blockchain Case." *Journal of Business Logistics*. doi:10.1111/jbl.12240.
- Stranieri, S., F. Riccardi, M.P.M. Meuwissen, and C. Soregaroli. 2021. "Exploring the Impact of Blockchain on the Performance of Agri-Food Supply Chains." *Food Control* 119. doi:10.1016/j.foodcont.2020.107495.

- Sturmanis, A., J. Hudenko, and M. Juruss. 2018. "The Challenges of Introducing the Blockchain Technology in Logistic Chains." In *WMSCI 2018 - 22nd World Multi-Conference on Systemics, Cybernetics and Informatics, Proceedings*, 2:37–42.
- Su, Lei, and Haiying Wang. 2020. "Supply Chain Finance Research in Digital Bulk Commodities Service Platform Based on Blockchain." *Proceedings - 2020 International Conference on E-Commerce and Internet Technology, ECIT 2020*, 341–344. doi:10.1109/ECIT50008.2020.00085.
- Su, S., K. Wang, and H.S. Kim. 2018. "Smartsupply: Smart Contract Based Validation for Supply Chain Blockchain." In *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, IThings/Gree*, 988–993. doi:10.1109/Cybermatics_2018.2018.00186.
- Sun, L., Z. Li, N. Cao, and L. Zhou. 2018. "Research on Application of Logistics Service Quality Management Based on Blockchain." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11338 LNCS. doi:10.1007/978-3-030-05234-8_19.
- Sund, T., C. Löf, S. Nadjm-Tehrani, and M. Asplund. 2020. "Blockchain-Based Event Processing in Supply Chains—A Case Study at IKEA." *Robotics and Computer-Integrated Manufacturing* 65. doi:10.1016/j.rcim.2020.101971.
- Sylim, Patrick, Fang Liu, Alvin Marcelo, and Paul Fontelo. 2018. "Blockchain Technology for Detecting Falsified and Substandard Drugs in Distribution: Pharmaceutical Supply Chain Intervention." *Journal of Medical Internet Research* 20 (9): 1–12. doi:10.2196/10163.
- Tan, A.W.K., Y. Zhao, and T. Halliday. 2018. "A Blockchain Model for Less Container Load Operations in China." *International Journal of Information Systems and Supply Chain Management* 11 (2): 39–53. doi:10.4018/IJISSCM.2018040103.
- Tan, B., J. Yan, S. Chen, and X. Liu. 2018. "The Impact of Blockchain on Food Supply Chain: The Case of Walmart." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11373 LNCS. doi:10.1007/978-3-030-05764-0_18.
- Tan, B.Q., F. Wang, J. Liu, K. Kang, and F. Costa. 2020. "A Blockchain-Based Framework for Green Logistics in Supply Chains." *Sustainability (Switzerland)* 12 (11). doi:10.3390/su12114656.
- Terzi, S., A. Zacharaki, A. Nizamis, K. Votis, D. Ioannidis, D. Tzovaras, and I. Stamelos. 2019. "Transforming the Supply-Chain Management and Industry Logistics with Blockchain Smart Contracts." In *ACM International Conference Proceeding Series*. doi:10.1145/3368640.3368655.
- Thiruchelvam, V., A.S. Mughisha, M. Shahpasand, and M. Bamiah. 2018. "Blockchain-Based Technology in the Coffee Supply Chain Trade: Case of Burundi Coffee." *Journal of Telecommunication, Electronic and Computer Engineering* 10 (3–2): 121–125.
- Tian, Feng. 2016. "An Agri-Food Supply Chain Traceability System for China Based on RFID & Blockchain Technology." *2016 13th International Conference on Service Systems and Service Management, ICSSSM 2016*. IEEE. doi:10.1109/ICSSSM.2016.7538424.
- Tian, Feng. 2017. "A Supply Chain Traceability System for Food Safety Based on HACCP, Blockchain & Internet of Things." *14th International Conference on Services Systems and Services Management, ICSSSM 2017 - Proceedings*. IEEE. doi:10.1109/ICSSSM.2017.7996119.
- Tian, Z., R.Y. Zhong, A. Vatankhah Barenji, Y.T. Wang, Z. Li, and Y. Rong. 2020. "A Blockchain-Based Evaluation Approach for Customer Delivery Satisfaction in Sustainable Urban Logistics." *International Journal of Production Research*. doi:10.1080/00207543.2020.1809733.
- Toma, C., B. Talpiga, C. Boja, M. Popa, B. Iancu, and M. Zurini. 2019. "Secure IoT Supply Chain Management Solution Using Blockchain and Smart Contracts Technology." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11359 LNCS. doi:10.1007/978-3-030-12942-2_22.
- Tönnissen, Stefan, and Frank Teuteberg. 2020. "Analysing the Impact of Blockchain-Technology for Operations and Supply Chain Management: An Explanatory Model Drawn from Multiple Case Studies." *International Journal of Information Management* 52 (January). Elsevier: 0–1. doi:10.1016/j.ijinfomgt.2019.05.009.
- Toyoda, K., P. Takis Mathiopoulos, I. Sasase, and T. Ohtsuki. 2017. "A Novel Blockchain-Based Product Ownership Management System (POMS) for Anti-Counterfeits in the Post Supply Chain." *IEEE Access* 5: 17465–17477. doi:10.1109/ACCESS.2017.2720760.
- Treiblmaier, Horst. 2018. "The Impact of the Blockchain on the Supply Chain: A Theory-Based Research Framework and a Call for Action." *Supply Chain Management* 23 (6): 545–559. doi:10.1108/SCM-01-2018-0029.
- Tseng, J.-H., Y.-C. Liao, B. Chong, and S.-W. Liao. 2018. "Governance on the Drug Supply Chain via Gcoin Blockchain." *International Journal of Environmental Research and Public Health* 15 (6). doi:10.3390/ijerph15061055.
- van Hoek, Remko. 2019. "Exploring Blockchain Implementation in the Supply Chain: Learning from Pioneers and RFID Research." *International Journal of Operations and Production Management* 39 (6): 829–859. doi:10.1108/IJOPM-01-2019-0022.
- van Hoek, Remko. 2020. "Developing a Framework for Considering Blockchain Pilots in the Supply Chain – Lessons from Early Industry Adopters." *Supply Chain Management* 25 (1): 115–121. doi:10.1108/SCM-05-2019-0206.
- van Hoek, Remko. 2019. "Unlocking the Chain – Findings from an Executive Workshop on Blockchain in the Supply Chain." *Supply Chain Management* 25 (2): 255–261. doi:10.1108/SCM-11-2018-0383.

- Venkatesh, V.G., K. Kang, B. Wang, R.Y. Zhong, and A. Zhang. 2020. "System Architecture for Blockchain Based Transparency of Supply Chain Social Sustainability." *Robotics and Computer-Integrated Manufacturing* 63. doi:10.1016/j.rcim.2019.101896.
- Voulgaris, S., N. Fotiou, V.A. Siris, G.C. Polyzos, A. Tomaras, and S. Karachontzitis. 2020. "Hierarchical Blockchain Topologies for Quality Control in Food Supply Chains." In *2020 European Conference on Networks and Communications, EuCNC 2020*, 139–143. doi:10.1109/EuCNC48522.2020.9200913.
- Wamba, Samuel Fosso S.F., and Maciel M.M. Queiroz. 2020. "Industry 4.0 and the Supply Chain Digitalisation: A Blockchain Diffusion Perspective." *Production Planning and Control* 0 (0). Taylor & Francis: 1–18. doi:10.1080/09537287.2020.1810756.
- Wamba, Samuel Fosso S.F., and Maciel M.M. Queiroz. 2019. "The Role of Social Influence in Blockchain Adoption: The Brazilian Supply Chain Case." *IFAC-PapersOnLine* 52 (13). Elsevier Ltd: 1715–1720. doi:10.1016/j.ifacol.2019.11.448.
- Wang, Bill, Wen Luo, Abraham Zhang, Zonggui Tian, and Z. Li. 2020. "Blockchain-Enabled Circular Supply Chain Management: A System Architecture for Fast Fashion." *Computers in Industry* 123. doi:10.1016/j.compind.2020.103324.
- Wang, K., M. Liu, X. Jiang, C. Yang, and H. Zhang. 2020. *A Novel Vehicle Blockchain Model Based on Hyperledger Fabric for Vehicle Supply Chain Management. Communications in Computer and Information Science*. Vol. 1156 CCIS. doi:10.1007/978-981-15-2777-7_59.
- Wang, Luya, and Shaoyong Guo. 2020. *Blockchain Based Data Trust Sharing Mechanism in the Supply Chain. Advances in Intelligent Systems and Computing*. Vol. 895. Springer International Publishing. doi:10.1007/978-3-030-16946-6_4.
- Wang, Y., M. Singgih, J. Wang, and M. Rit. 2019. "Making Sense of Blockchain Technology: How Will It Transform Supply Chains?" *International Journal of Production Economics* 211: 221–236. doi:10.1016/j.ijpe.2019.02.002.
- Wang, Yingli, Catherine Huirong C.H. Chen, and Ahmed Zghari-Sales. 2020. "Designing a Blockchain Enabled Supply Chain." *International Journal of Production Research*. doi:10.1080/00207543.2020.1824086.
- Wang, Z., L. Guo, W. Xu, and T. Kang. 2020. "A Secure and Credible Supply Chain System Based on Blockchain." *Lecture Notes in Electrical Engineering*. Vol. 628 LNEE. doi:10.1007/978-981-15-4163-6_11.
- Wang, Z., T. Wang, H. Hu, J. Gong, X. Ren, and Q. Xiao. 2020. "Blockchain-Based Framework for Improving Supply Chain Traceability and Information Sharing in Precast Construction." *Automation in Construction* 111. doi:10.1016/j.autcon.2019.103063.
- Wei, Y. 2020. "Blockchain-Based Data Traceability Platform Architecture for Supply Chain Management." In *Proceedings - 2020 IEEE 6th Intl Conference on Big Data Security on Cloud, BigDataSecurity 2020, 2020 IEEE Intl Conference on High Performance and Smart Computing, HPSC 2020 and 2020 IEEE Intl Conference on Intelligent Data and Security, IDS 2020*, 77–85. doi:10.1109/BigDataSecurity-HPSC-IDS49724.2020.00025.
- Wen, Q., Y. Gao, Z. Chen, and D. Wu. 2019. "A Blockchain-Based Data Sharing Scheme in the Supply Chain by IIoT." In *Proceedings - 2019 IEEE International Conference on Industrial Cyber Physical Systems, ICPS 2019*, 695–700. doi:10.1109/ICPHYS.2019.8780161.
- Westerkamp, M., F. Victor, and A. Kupper. 2018. "Blockchain-Based Supply Chain Traceability: Token Recipes Model Manufacturing Processes." In *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, IThings/Gree*, 1595–1602. doi:10.1109/Cybermatics_2018.2018.00267.
- Wong, L.-W., G.W.-H. Tan, V.-H. Lee, K.-B. Ooi, and A. Sohal. 2020. "Unearthing the Determinants of Blockchain Adoption in Supply Chain Management." *International Journal of Production Research* 58 (7): 2100–2123. doi:10.1080/00207543.2020.1730463.
- Wong, Lai Wan L.-W. Lai Wan, L.-Y. Lai Ying Leong, J.-J. Jun Jie Hew, Garry Wei Han G.W.-H. Garry Wei Han G.W.-H. Tan, and Keng Boon K.-B. Ooi. 2020. "Time to Seize the Digital Evolution: Adoption of Blockchain in Operations and Supply Chain Management among Malaysian SMEs." *International Journal of Information Management* 52 (August). Elsevier: 1–19. doi:10.1016/j.ijinfomgt.2019.08.005.
- Wu, H., J. Cao, Y. Yang, C.L. Tung, S. Jiang, B. Tang, Y. Liu, X. Wang, and Y. Deng. 2019. "Data Management in Supply Chain Using Blockchain: Challenges and a Case Study." In *Proceedings - International Conference on Computer Communications and Networks, ICCCN*. Vol. 2019-July. doi:10.1109/ICCCN.2019.8846964.
- Xevgenis, Michael, G Dimitrios, Helen C Leligou, Michalis Feidakis, and Charalampos Z Patrikakis. 2020. "A Survey on the Available Blockchain Platforms and Protocols for Supply Chain Management." In *Proceedings of the Workshop on IOT Infrastructures for Safety in Pervasive Environments (IOT4SAFE 2020)*, 1–11.
- Xie, W., B. Wang, Z. Ye, W. Wu, J. You, and Q. Zhou. 2019. "Simulation-Based Blockchain Design to Secure Biopharmaceutical Supply Chain." In *Proceedings - Winter Simulation Conference*, 2019-Decem:797–808. doi:10.1109/WSC40007.2019.9004696.
- Xiong, F., R. Xiao, W. Ren, R. Zheng, and J. Jiang. 2019. "A Key Protection Scheme Based on Secret Sharing for Blockchain-Based Construction Supply Chain System." *IEEE Access* 7: 126773–126786. doi:10.1109/ACCESS.2019.2937917.
- Xu, X., F. Rahman, B. Shakya, A. Vassilev, D. Forte, and M. Tehranipoor. 2019. "Electronics Supply Chain Integrity Enabled by Blockchain." *ACM Transactions on Design Automation of Electronic Systems* 24 (3). doi:10.1145/3315571.

- Xu, L., P. Tu, and Q. Tang. 2020. "Contract Design for Cloud Logistics (CL) Based on Blockchain Technology (BT)." *Complexity* 2020. doi:10.1155/2020/5305808.
- Xu, L., L. Chen, Z. Gao, Y. Chang, E. Iakovou, and W. Shi. 2018. "Binding the Physical and Cyber Worlds: A Blockchain Approach for Cargo Supply Chain Security Enhancement." In *2018 IEEE International Symposium on Technologies for Homeland Security, HST 2018*. doi:10.1109/THS.2018.8574184.
- Xu, Z., Y. Liu, J. Zhang, Z. Song, J. Li, and J. Zhou. 2019. "Manufacturing Industry Supply Chain Management Based on the Ethereum Blockchain." In *Proceedings - 2019 IEEE International Conferences on Ubiquitous Computing and Communications and Data Science and Computational Intelligence and Smart Computing, Networking and Services, IUCC/DSCI/SmartCNS 2019*, 592–596. doi:10.1109/IUCC/DSCI/SmartCNS.2019.00124.
- Xu, Z., C.B. Van, T. Jiao, S. Wen, Q. Wang, and Y. Xiang. 2019. "An Efficient Supply Chain Architecture Based on Blockchain for High-Value Commodities." In *BSCI 2019 - Proceedings of the 2019 ACM International Symposium on Blockchain and Secure Critical Infrastructure, Co-Located with AsiaCCS 2019*, 81–88. doi:10.1145/3327960.3332384.
- Xue, Xiaofang, Junpeng Dou, and Yao Shang. 2020. "Blockchain-Driven Supply Chain Decentralized Operations – Information Sharing Perspective." *Business Process Management Journal*. doi:10.1108/BPMJ-12-2019-0518.
- Yadav, S., and S.P. Singh. 2020. "Blockchain Critical Success Factors for Sustainable Supply Chain." *Resources, Conservation and Recycling* 152. doi:10.1016/j.resconrec.2019.104505.
- Yadav, Sachin, and Surya Prakash S.P. Singh. 2020. "An Integrated Fuzzy-ANP and Fuzzy-ISM Approach Using Blockchain for Sustainable Supply Chain." *Journal of Enterprise Information Management*. doi:10.1108/JEIM-09-2019-0301.
- Yadav, V.S. Vinay Surendra, A.R. R. Singh, Rakesh D. R.D. Raut, and Usharani Hareesh Govindarajan. 2020. "Blockchain Technology Adoption Barriers in the Indian Agricultural Supply Chain: An Integrated Approach." *Resources, Conservation and Recycling* 161 (April). Elsevier: 104877. doi:10.1016/j.resconrec.2020.104877.
- Yang, J., X. Ma, R.G. Crespo, and O.S. Martinez. 2020. "Blockchain for Supply Chain Performance and Logistics Management." *Applied Stochastic Models in Business and Industry*. doi:10.1002/asmb.2577.
- Yanovich, Y., I. Shiyonov, T. Myaldzin, I. Prokhorov, D. Korepanova, and S. Vorobyov. 2018. "Blockchain-Based Supply Chain for Postage Stamps." *Informatics* 5 (4). doi:10.3390/informatics5040042.
- Yi, H. 2019. "A Secure Logistics Model Based on Blockchain." *Enterprise Information Systems*. doi:10.1080/17517575.2019.1696988.
- Yoo, M., and Y. Won. 2018. "A Study on the Transparent Price Tracing System in Supply Chain Management Based on Blockchain." *Sustainability (Switzerland)* 10 (11). doi:10.3390/su10114037.
- Yousuf, S., and D. Svetinovic. 2019. "Blockchain Trust and Decentralization in Supply Chain Management." In *27th Telecommunications Forum, TELFOR 2019*. doi:10.1109/TELFOR48224.2019.8971219.
- Yu, C., X. Jiang, S. Yu, and C. Yang. 2020. "Blockchain-Based Shared Manufacturing in Support of Cyber Physical Systems: Concept, Framework, and Operation." *Robotics and Computer-Integrated Manufacturing* 64. doi:10.1016/j.rcim.2019.101931.
- Yusuf, H., I. Surjandari, and A.M.M. Rus. 2019. "Multiple Channel with Crash Fault Tolerant Consensus Blockchain Network: A Case Study of Vegetables Supplier Supply Chain." In *2019 16th International Conference on Service Systems and Service Management, ICSSSM 2019*. doi:10.1109/ICSSSM.2019.8887678.
- Yuyan, L., and W. Lan. 2020. "The Role of Blockchain Technology on Supply Chain Finance." In *ACM International Conference Proceeding Series*. doi:10.1145/3414274.3414497.
- Zelbst, Pamela J. P.J., Kenneth W. K.W. Green, V.E. Victor E. Sower, and P.L. Philip L. Bond. 2019. "The Impact of RFID, IIoT, and Blockchain Technologies on Supply Chain Transparency." *Journal of Manufacturing Technology Management* 31 (3): 441–457. doi:10.1108/JMTM-03-2019-0118.
- Zhang, X., P. Sun, J. Xu, X. Wang, J. Yu, Z. Zhao, and Y. Dong. 2020. "Blockchain-Based Safety Management System for the Grain Supply Chain." *IEEE Access* 8: 36398–36410. doi:10.1109/ACCESS.2020.2975415.
- Zhao, R. 2019. "An Empirical Analysis of Supply Chain BPM Model Based on Blockchain and IoT Integrated System." *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Vol. 11817 LNCS. doi:10.1007/978-3-030-30952-7_54.
- Zheng, K., Z. Zhang, Y. Chen, and J. Wu. 2019. "Blockchain Adoption for Information Sharing: Risk Decision-Making in Spacecraft Supply Chain." *Enterprise Information Systems*. doi:10.1080/17517575.2019.1669831.
- Zheng, K., Z. Zhang, and J. Gauthier. 2020. "Blockchain-Based Intelligent Contract for Factoring Business in Supply Chains." *Annals of Operations Research*. doi:10.1007/s10479-020-03601-z.
- Zhu, Qingyun, and Mahtab Kouhizadeh. 2019. "Blockchain Technology, Supply Chain Information, and Strategic Product Deletion Management." *IEEE Engineering Management Review* 47 (1): 36–44. doi:10.1109/EMR.2019.2898178.
- Zou, L., S. Jia, Q. Lan, and Z. Zhou. 2020. "Research on Blockchain-Based Commercial Paper Financing in Supply Chain" *Advances in Intelligent Systems and Computing*. Vol. 1084 AISC. doi:10.1007/978-3-030-34387-3_44.