

Online-Appendix zu

"Blockchain Technology Adoption among Consumers: An Analysis of Usage Intention and Application Usefulness"

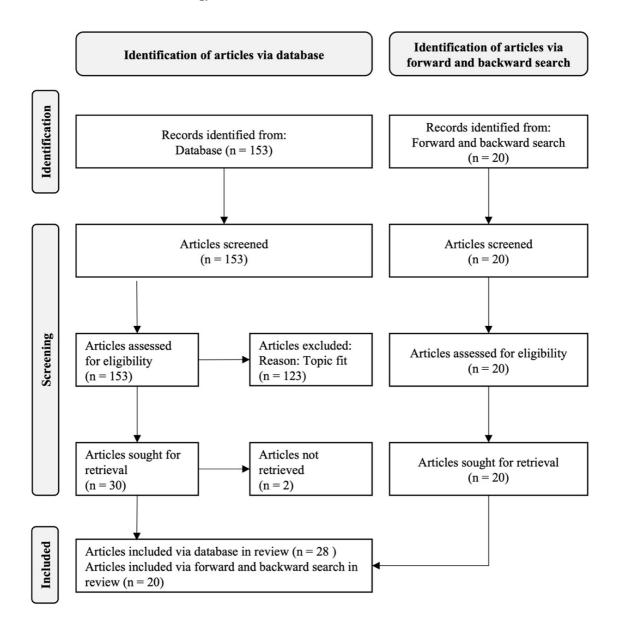
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Appendix

Appendix 1:

Literature review methodology



Note: This design was adapted from the PRISMA flow diagram by Page et al. (2021).

Appendix 2:

Specific blockchain application	Frequency of articles covering or relating to the specific blockchain application	
	n	%
Self-sovereign identity	9	19%
Tokenization of assets	16	33%
Fractional ownership	4	8%
Micropayments	7	15%
Smart contracts	31	65%
Anonymous transactions	11	23%

Frequency of literature on specific blockchain applications

Note: N = 48.

Appendix 3:

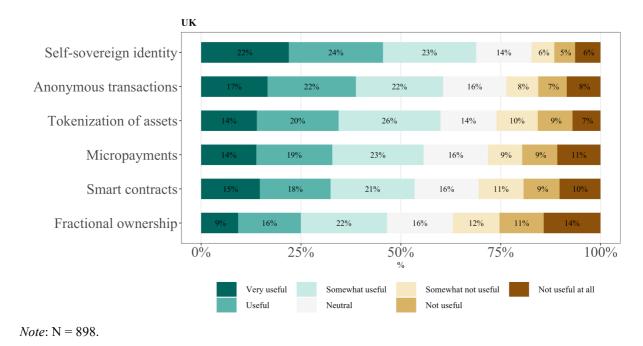
Constructs and items

Construct	Item		Source
Optimism	OPT1	New technology gives me more freedom of mobility.	Parasuraman,
	OPT2	New technology makes me more productive.	2000
Innovativeness	INN1	Other people come to me for advice on new technologies.	Agarwal &
	INN2	In general, I am among the first in my circle of friends to	Prasad, 1998;
		acquire new technology when it appears.	Parasuraman,
	INN3	I keep up with the latest technological developments in	2000
		my areas of interest.	
Discomfort	DIS1	I can usually figure out new high-tech products and	Parasuraman,
		services without help from others.	2000
	DIS2	Sometimes, I think that technology systems are not	
		designed for use by ordinary people.	
Insecurity	INS1	People are too dependent on technology to do things for	Parasuraman,
		them.	2000
	INS2	Too much technology distracts people to a point that is	
		harmful.	
	INS3	I don't feel comfortable doing business if the other party	
		is only available online.	
Social influence	SOC1	Would your circle of friends and acquaintances believe	Venkatesh et
		that you should use Blockchain Technology?	al., 2003
Disposition to privacy	DTP1	Compared to others, I am more sensitive about the way	Y. Li, 2014
		other people or organizations handle my personal	
		information.	
	DTP2	Compared to others, I see more importance in keeping	
		personal information private.	
	DTP3	Compared to others, I am less concerned about potential	
		threats to my personal privacy.	
Trust	TIN1	Blockchain Technology provides reliable information.	Hawlitschek et
	TIN2	Blockchain Technology is honest in dealing with my	al., 2016; Lu
		private data.	et al., 2010
	TIN3	Blockchain Technology adheres to rules and principles.	
	TBE1	Blockchain Technology acts in the interests of its users.	
	TBE2	In general, Blockchain Technology is not malicious.	
	TBE3	Blockchain Technology has no bad intentions towards its	
		users.	
	TAB1	Blockchain Technology serves its purpose.	
	TAB2	Blockchain Technology operates flawlessly.	
	TAB3	Blockchain Technology is capable to offer me a good	
.		service.	
Perceived risk	RIS1	In general, it seems risky to use Blockchain Technology.	Koohikamali
	RIS2	I would feel unsafe using Blockchain Technology.	et al., 2015
Perceived benefit for	BSO1	Using Blockchain Technology has many advantages for	Koohikamali
society	D 0	society.	et al., 2015
	BSO2	Using Blockchain Technology has many disadvantages	
		for society.	

Appendix 3 continued

Construct	Item		Source
Potential of disruption	PDI1	Your Feeling: Blockchain Technology has great potential to disrupt the business world.	Aydiner, 2021; Frizzo-
	PDI2	Your Feeling: Blockchain Technology has great potential	Barker et al.,
	PDI3	to disrupt everyday life. Your Feeling: Blockchain Technology has great potential	2020
	PDIS	to be as disruptive as the introduction of the internet.	
	PDI4	Your Feeling: Blockchain Technology has no disruptive	
	1011	potential at all.	
Usage intention	UIN1	Given the chance, I would use Blockchain Technology	Venkatesh et
-		applications.	al., 2003;
	UIN2	Given the chance, it is very likely that I would use	Warshaw &
		Blockchain Technology.	Davis, 1985
Experience	EXP1	Currently, my contact with blockchain technology (or	Blut et al.,
		cryptocurrency) in my professional (job, uni, school) life	2022;
		is	Venkatesh et
	EXP2	Currently, my contact with blockchain technology (or	al., 2003
	EUDA	cryptocurrency) in my personal life is	
	EXP3	How would you rate your knowledge of Blockchain	
Possession of	DOC1	Technology?	Steinmetz et
	POC1	Are you currently, or have you ever been, in possession of any cryptocurrency? (e.g., Bitcoin, Ethereum or others)	al., 2021;
cryptocurrency		of any cryptocurrency? (e.g., Bitcolli, Ethereuth of others)	Toufaily et al.
			2021
Application usefulness	USF1	How useful do you find this possibility?	Venkatesh et
(Tokenization of assets)			al., 2003
Application usefulness	USF2	How useful do you find this possibility?	Venkatesh et
(Fractional ownership)			al., 2003
Application usefulness	USF3	How useful do you find this possibility?	Venkatesh et
(Self-sovereign identity)			al., 2003
Application usefulness	USF4	How useful do you find this possibility?	Venkatesh et
(Smart contracts)			al., 2003
Application usefulness	USF5	How useful do you find this possibility?	Venkatesh et
(Micropayments)			al., 2003
Application usefulness	USF6	How useful do you find this possibility?	Venkatesh et
(Anonymous			al., 2003
transactions)	******		
Perceived usefulness	USF1-6	How useful do you find this possibility?	c.f.
			Performance
			Expectancy
			Venkatesh et
			al., 2003

Appendix 4:



British consumers' usefulness assessment of specific blockchain applications

References

Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Shamseer, L., Tetzlaff, J. M., Akl, E. A., Brennan, S. E., Chou, R., Glanville, J., Grimshaw, J. M., Hróbjartsson, A., Lalu, M. M., Li, T., Loder, E. W., Mayo-Wilson, E., McDonald, S., ... Moher, D. (2021). The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. *BMJ*, n71. https://doi.org/10.1136/bmj.n71