# A Questionnaire to Assess Virtual Conference Participation Experience

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This articel is a technical report documenting the questionnaire not a scientific paper and has NOT been peer reviewed.

# **ABSTRACT**

This technical report describes the preliminary design of a questionnaire to assess the participants experience of virtual conferences, compared to classical on-site conferences. The survey approach consists of a pre-conference questionnaire assessing participation goals and a post-conference questionnaire assessing the participation experience. It enables a data-driven investigation of the participant's experience, goals, and general feedback about virtual conferences. Beyond its original goal of assessing virtual conferences, the questionnaire enables to assess goals of conference participation. The questionnaire was successfully used at one conference and two workshop. A HTML version and data is provided by a companion repository. It is released early to foster research on virtual conferences.

#### **KEYWORDS**

User experience, COVID-19, academic conferences

## 1 INTRODUCTION

The outbreak of the COVID-19 pandemic in 2020 forced academic conference to move to an online format with only little preparation time and prior experience. This necessity for virtual conferences is rooted travel restrictions and social distancing enforced by many governments around the world as a response to the outbreak.

The dominant publication model of many communities (e.g., in computer science) relies on in-person conferences and workshops to disseminate work and to open-up new directions for future work. Besides discussions also social bonds emerge that strengthen the scientific community. In light of the measures to fight the pandemic, such in-person gathering were no longer possible and had to either canceled or moved to an online format (see e.g., [6, 9, 12]). Once successfully established, virtual conferences might be the future [5]. Up to the outbreak, only few venues experimented with means for remote attendance (e.g., using telepresence robots [13, 14]). The Internet Engineering Task Force (IETF) enables remote attendance for their meetings and few other conferences provide live streams (e.g., network operator meetings such as RIPE or the Chaos Communication Congress). Despite these isolated efforts, the academic community has not largely moved to organizing all-virtual conferences—a new format [15] that needed to be realized from one day to the next as a result of the pandemic.

While the organization of on-site conferences and meetings follows established practices, largely moving academic conferences to an online format is new and thus little to no prior experience exists. As a result, an ACM Presidential Task Force was formed in March to provide quick advice to conference organizers suddenly facing the need to move their conference online in light of the social distancing recommendations and global restrictions on travel due to the COVID-19 pandemic [1]. While different design guidelines for organizing virtual conferences emerged, the participants experience is not yet understood. Do virtual conferences provide value beyond on-site conferences and might stay? Do participants enjoy participating in virtual conferences? Which aspects of current virtual conference designs do not yet work well and need improvement?

To shed light on these questions, we present a questionnaire to assess the participants experience of attending virtual conferences. This enables a data-driven investigation of the participant's experience, goals, and general feedback about virtual conferences. It assesses virtual conference attendance relative to prior experience in attending on-site conferences-and thus assumes that such experience exists (asked as part of the questionnaire). This way, potential limitations, opportunities, and challenges of virtual conferences can be understood. Lessons learned by surveying participants can be used to improve the design of future virtual conferences. In the absence of established questionnaires to assess the participants experience of virtual conferences and to compare it to on-site versions, we designed the questionnaire in early March 2020 and have successfully applied it at one conferences [4] and two workshops [2, 3]. We maintain a public repository [8] that contains raw data, analysis scripts, and an HTML version of this questionnaire implemented using TheFragebogen [7]. While there are many angles for improvement and the reliability of the questionnaire cannot be assessed with only few applications yet, we already found it a useful tool to shed light on the participants experience of the three venues we used it so far. We thus decided to share its preliminary design publicly to be used and extended. Beyond its original goal of assessing virtual conferences, the questionnaire enables to assess goals of conference participation-aspects that haven't been analyzed in many communities and can likewise inform the design of on-site conferences. With this, we aim to provide a tool for assessing the participants experience of academic conferences to the community and thereby aim at simulating research on virtual conferences.

# 2 QUESTIONNAIRE DESIGN

We propose two questionnaires to investigate the participants expectations and experiences. The first questionnaire is called *preconference questionnaire* and should be distributed before the virtual

conference takes place. The second questionnaire is called *post-conference questionnaire* and should be administered directly after the virtual conference.

**Pre-Conference Questionnaire.** The aim of this first questionnaire is to assess participant demographics, timezone, and primarily to gather data on goals of participation, the planned participation, and prior experience with virtual conferences. It needs to be sent to all participants prior to the conference start. We assume that the virtual conference is a replacement for an on-site conference and we want also to understand the expectations of participants who attended prior conferences.

The pre-conference questionnaire consisted of four sections. First, we collected the participant's time zone, the professional seniority, and if participants already attended prior versions of this conference. Subsequently, we assess the participants goals regarding their participation either as on-site conference and also as virtual conference. We assess the following goals: presenting their own work, following other researchers work, and also social interaction. Social interaction is split into meeting already known researchers and meeting new researchers. Also, we assess how participants plan to their conference participation, e.g., which tools they plan to use and which sessions they plan to attend. These information can inform conference organizers before the start of the venue. Since our goal is to compare the virtual conference experience to on-site venues, we asked the participants to provide the same information but in the context of attending on-site conferences. This way, the questionnaire is a self-report study. We remark that self-report studies are an often used tool (e.g., in health and psychology research), yet the accuracy and reliability of reports of one's own behavior is unknown and thus self-report studies can have validity problems.

The pre-conference questionnaire is shown in Appendix A. **Post-Conference Questionnaire.** The post-conference questionnaire assesses the actual experience—instead of the planned behavior and goals—after conference attendance. It thus needs to be answered by participants after the conference ended, e.g., sent by the general chairs right after the closing ceremony. It assesses the participants' experience of attending the conference by collecting the following data: *i*) Participant information (same as pre-conference questionnaire). *ii*) Overall experience of attending presentation sessions. *iii*) Presentation-related interactions. *iv*) Social interactions (Virtual Hallway Track). *v*) Overall experience and fulfilment of expectations. *vi*) General comments about virtual attendance and suggestions for future virtual conferences.

We assume that both questionnaires are answered anonymously to increase the response rate. We thus assess the same participant information in both the pre- and the post-conference questionnaire. An alternative implementation of our approach can assign pseudonyms (e.g., tokens) to participants that enable both questionnaires to be correlated. We opted for a simpler design and did not use pseudonyms since the correlation of both questionnaires was not subject to our intended analysis. Yet, the responses to both the participant information parts in both questionnaires can be compared statistically to check if the populations that answered the questionnaires are statistically similar.

The overall experience assessed overall quality on a continuous 7-point scale defined in [10]—an approach that is often used in

Quality of Experience (QoE) research. This scale is an extension of a discrete ACR 5-point scale that is recommended by the ITU-T in Rec. P.800 (bad to excellent) in which the two extrema need to be displayed differently since they are supposed not be directly selected (see the implementation in TheFragebogen [7]). If such a display is not available, the overall quality should be assessed using the 5-point scale. This section of the questionnaire further assesses to which degree the expectations described in the pre-conference questionnaire and those on the virtual conference were met. Therefore, the fulfillment of the participants expectations is collected on the same dimensions as in the pre-conference questionnaire. It also asks if one would want to attend more conferences if they are offered online.

The next section assesses the attendance of talk sessions. It assesses which tools were used and how well they worked and how the talk sessions compare to on-site versions of the conference (or other conferences). The latter dimensions are assessed on a 5-point Likert scale (much worse to much better). We assume that participants have attended at least one on-site conference prior to the assessed virtual conference (thus prior experience is assessed in the participant information). In includes optional textual input on the pros and cons of the use of pre-recorded talks—a format used by virtual conferences to mitigate technical problems during live streams. Last, it asked how many sessions were skipped due to time zone difference—a main challenge that virtual conference face when providing live streams to a global audience.

We assess the interaction in two sections: *i)* presentation-related interactions and *ii)* social Interactions (Virtual Hallway Track). The interaction quality is assessed on a 5-point Likert scale (much worse to much better)—the same as in the previous session to keep the overall number of scales minimal. It is again asked relative to classical on-site conferences to assess the benefit / drawback of virtual conferences. Again, both sections contain optional textual input fields to assess the respective positive and negative aspects of interactions and ways for improvement.

The last section (general comments about remote attendance) asked for general feedback (textual input) and the experience with the virtual conference format. The virtual conference format is assessed using the following scales. First, the agreement to the statement to attend more virtual conferences in the future. Second, the share of virtual conferences in the future (from 0%—all inperson—to 100%—all virtual). Third, the Net Promoter Score (NPS) to investigate the impact on customer loyalty [16]. The NPS asks how likely it would be that attending this virtual conference would be recommended to colleagues (0 not likely at all until 10 extremely likely). While it is of questionable reliability [11] and not well-established the QoE domain, it is popular in marketing and user retention analyses.

The post-conference questionnaire is shown in Appendix B. We provide a HTML version implemented using TheFragebogen [7] at [8] to ease its direct application to further conferences. Parts of the questionnaire (e.g., on the used tools) need to be adapted to the assessed conference before use.

2

## REFERENCES

- ACM virtual conference task force. https://www.acm.org/virtual-conferences, 2020.
- [2] Itg workshop on it security. https://kn.inf.uni-tuebingen.de/itg-itsec/2020, 2020.
- [3] Kuvs workshop on network softwarization. https://kn.inf.uni-tuebingen.de/ KuVS-FG-NetSoft/2020, 2020.
- [4] Passive and active measurement conference 2020. https://pam2020.cs.uoregon. edu/, 2020.
- [5] BARRAL, A. Virtual conferences are the future. Nature Ecology & Evolution 4, 5 (2020), 666–667.
- [6] BONIFATI, A., GUERRINI, G., LUTZ, C., MARTENS, W., MAZILU, L., PATON, N., SALLES, M. A. V., SCHOLL, M. H., AND ZHOU, Y. Holding a conference online and live due to covid-19. arXiv cs.DB/2004.07668 https://arxiv.org/abs/2004.07668, Apr. 2020.
- [7] GUSE, D., OREFICE, H. R., REIMERS, G., AND HOHLFELD, O. TheFragebogen: A web browser-based questionnaire framework for scientific research. In IEEE Conference on Quality of Multimedia Experience (2019).
- [8] HOHLFELD, O. Virtual conference experience research data repository. https://github.com/ohohlfeld/virtual-conference-experience/, 2020.
- [9] IOSUP, A., TRUBIANI, C., KOZIOLEK, A., AMARAL, J. N., BONDI, A. B., AND BRUNNERT, A. Flexibility is key in organizing a global professional conference online: The

- icpe 2020 experience in the covid-19 era. arXiv cs.CY/2005.09085 https://arxiv.org/abs/2005.09085, May 2020.
- [10] ITU-T RECOMMENDATION P.851. Subjective quality evaluation of telephone services based on spoken dialogue systems (11/2003).
- [11] KEININGHAM, T., COOIL, B., ANDREASSEN, T., AND AKSOY, L. A longitudinal examination of net promoter and firm revenue growth. J Market 71 (2007).
- [12] LARUS, J., CEZE, L., AND STRAUSS, K. The ASPLOS 2020 online conference experience. https://cacm.acm.org/blogs/blog-cacm/ 243882-the-asplos-2020-online-conference-experience/fulltext, Mar. 2020.
- [13] NEUSTAEDTER, C., SINGHAL, S., PAN, R., HESHMAT, Y., FORGHANI, A., AND TANG, J. From being there to watching: Shared and dedicated telepresence robot usage at academic conferences. ACM Trans. Comput.-Hum. Interact. 25, 6 (Dec. 2018).
- [14] NEUSTAEDTER, C., VENOLIA, G., PROCYK, J., AND HAWKINS, D. To beam or not to beam: A study of remote telepresence attendance at an academic conference. In Conference on Computer-Supported Cooperative Work & Social Computing (2016).
- [15] PRICE, M. Scientists discover upsides of virtual meetings. Science 368, 6490 (2020), 457–458.
- [16] REICHHELD, F. F. The One Number You Need to Grow. Harvard Business Review (Dec. 2003).

# A PRE-CONFERENCE QUESTIONNAIRE

Remote conference attendance is a new experience for all of us and this is the very first time that SomeConf is held as a virtual conference. To understand your expectations and to optimize virtual conferences in the future, we would like to ask you to complete this questionnaire as part of research on virtual conference attendance. It is complemented by a post-conference questionnaire to assess your conference experience that we will sent after the conference. We appreciate and value your effort in helping with this research. The goal is to derive community guidelines for virtual conferences. With your answers, you will help to shape future conferences!

This questionnaire consists of 5 blocks and will take you about 10 minutes to complete: 1) Personal details 2) Intended participation 3) Your goals when attending a on-site conference (e.g., prior editions of SomeConf) 4) Your goals when attending SomeConf as virtual conference 5) Other comments (optional)

All answers are collected anonymously. We thank you for your input!

## A.1 Personal details

We first would like to learn few personal details about you to be abl

le to better interpret your answers in this questionnaire.
(1) How many SomeConf conferences have you attended, includ-
ing this one?
□ 1
□ 2
□ 3
□ 4-6
□ > 6
(2) In which timezone are you?
□ (GMT -12:00) Eniwetok, Kwajalein
□ (GMT -11:00) Midway Island, Samoa
□ (GMT -10:00) Hawaii
□ (GMT -9:00) Alaska
☐ (GMT -8:00) Pacific Time (US & Canada)
☐ (GMT -7:00) Mountain Time (US & Canada)
□ (GMT -6:00) Central Time (US & Canada), Mexico City
□ (GMT -5:00) Eastern Time (US & Canada), Bogota, Lima
□ (GMT -4:00) Atlantic Time (Canada), Caracas, La Paz
☐ (GMT -3:30) Newfoundland
□ (GMT -3:00) Brazil, Buenos Aires, Georgetown
☐ (GMT -2:00) Mid-Atlantic
☐ (GMT -1:00) Azores, Cape Verde Islands
□ (GMT) Western Europe Time, London, Lisbon,
Casablanca
☐ (GMT +1:00) Brussels, Copenhagen, Madrid, Paris
☐ (GMT +2:00) Kaliningrad, South Africa
☐ (GMT +3:00) Baghdad, Riyadh, Moscow, St. Petersburg
☐ (GMT +3:30) Tehran

	☐ (GMT +4:00) Abu Dhabi, Muscat, Baku, Tbilisi
	□ (GMT +4:30) Kabul
	□ (GMT +5:00) Ekaterinburg, Islamabad, Karachi, Tashkent
	□ (GMT +5:30) Bombay, Calcutta, Madras, New Delhi
	☐ (GMT +6:00) Almaty, Dhaka, Colombo
	□ (GMT +7:00) Bangkok, Hanoi, Jakarta
	☐ (GMT +8:00) Beijing, Perth, Singapore, Hong Kong
	☐ (GMT +9:00) Tokyo, Seoul, Osaka, Sapporo, Yakutsk
	☐ (GMT +9:30) Adelaide, Darwin
	☐ (GMT +10:00) Eastern Australia, Guam, Vladivostok
	☐ (GMT +11:00) Magadan, Solomon Islands, New Caledonia
	☐ (GMT +12:00) Auckland, Wellington, Fiji, Kamchatka
(3)	From where are you participating in SomeConf?
(-)	□ Office / workplace
	☐ Home
	□ Commuting
	☐ Co-working space
	□ Other
(4)	Please rate your professional seniority
(4)	☐ Undergrad / Master student
	□ PhD student
	□ Postdoc
	☐ Faculty ☐ Industry
	□ Other
(5)	
(3)	Have you attended a remote conference before?
	□ No, this is my first remote conference
(6)	Yes
(6)	Would you have attended SomeConf as on-site conference
	in SomeLocation?
	☐ Yes, I would have physically attended SomeConf in
	SomeLocation
	□ No, I am only attending because of the remote participa-
	tion and would not have come to SomeLocation
<b>A.2</b>	Planned participation
	lo you plan to participate in the SomeConf virtual conference?
(7)	Do you intend to use the conference Slack/Zoom as virtual
	hallway track?
	□ Yes
	□ No
	☐ I have not decided yet
(8)	In which sessions do you plan to participate?
	☐ Session 1 (replace with real name)
	☐ Session 2 (replace with real name)
	···
(9)	Do you think you would attend more sessions if you would
	have attended SomeConf as on-site venue?
	☐ Yes, I would have attended more
	□ No

# A.3 Your goals when attending a on-site conference (e.g., prior editions of SomeConf)

To begin with, please tell us about your goals when attending an on-site conference in person (such as SomeConf in the previous years). We will ask you to your goals when attending SomeConf as online conference in the next section.

	conference in the			11 .		٠.		Not at	Slightly	Moder	ate Very	Extremely		
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	searchers						A.5 Other comm	ents (o	ents (optional)					
	Importance						(12) Do you have othe	r feedbac	k / wishe	s / comr	nents that	you		
	of visiting the						would like to shar	e?	·					
	city/country													
	in which the													
	conference is						-							
	held													

 ${\tt SomeConf?}$ 

A.4 Your goals when attending SomeConf as

What are you goals when attending this virtual edition of

(11) Importance of presenting my work to this community

virtual conference

# **B POST-CONFERENCE QUESTIONNAIRE**

Thank you for participating in SomeConf! Since this was the very first time that SomeConf was held as virtual conference, we are interested in how you experienced SomeConf in the broader context of research on virtual conferences. We therefore kindly ask you to participate in this post- conference questionnaire.

This questionnaire consists of 6 blocks and will take you about 15-20 minutes to complete: 1) Personal details (as in the pre-conf questionnaire since we cannot correlate both due to anonymity) 2) Overall Experience 3) Talk Sessions 4) Presentation-related Interactions 5) Social Interactions (Virtual Hallway Track) 6) General comments about virtual attendance

All answers are collected anonymously and we will share the results with you afterwards. We thank you for your input.

# **B.1** Personal details

W ab.

e first would like to learn few personal details about you to be								
le to better interpret your answers in this questionnaire.								
(1) How many SomeConf conferences have you attended, includ-								
ing this one?								
□ 1								
$\square$ 2								
□ 3								
□ 4-6								
□ > 6								
(2) In which timezone are you?								
□ (GMT -12:00) Eniwetok, Kwajalein								
□ (GMT -11:00) Midway Island, Samoa								
□ (GMT -10:00) Hawaii								
□ (GMT -9:00) Alaska								
☐ (GMT -8:00) Pacific Time (US & Canada)								
☐ (GMT -7:00) Mountain Time (US & Canada)								
☐ (GMT -6:00) Central Time (US & Canada), Mexico City								
□ (GMT -5:00) Eastern Time (US & Canada), Bogota, Lima								
□ (GMT -4:00) Atlantic Time (Canada), Caracas, La Paz								
□ (GMT -3:30) Newfoundland								
□ (GMT -3:00) Brazil, Buenos Aires, Georgetown								
□ (GMT -2:00) Mid-Atlantic								
☐ (GMT -1:00) Azores, Cape Verde Islands								
□ (GMT) Western Europe Time, London, Lisbon,								
Casablanca								
☐ (GMT +1:00) Brussels, Copenhagen, Madrid, Paris								
□ (GMT +2:00) Kaliningrad, South Africa								
□ (GMT +3:00) Baghdad, Riyadh, Moscow, St. Petersburg								
□ (GMT +3:30) Tehran								
□ (GMT +4:00) Abu Dhabi, Muscat, Baku, Tbilisi								
□ (GMT +4:30) Kabul								
□ (GMT +5:00) Ekaterinburg, Islamabad, Karachi, Tashkent								
□ (GMT +5:30) Bombay, Calcutta, Madras, New Delhi								
□ (GMT +6:00) Almaty, Dhaka, Colombo								
□ (GMT +7:00) Bangkok, Hanoi, Jakarta								
□ (GMT +8:00) Beijing, Perth, Singapore, Hong Kong								
□ (GMT +9:00) Tokyo, Seoul, Osaka, Sapporo, Yakutsk								
☐ (GMT +9:30) Adelaide, Darwin								
□ (GMT +10:00) Eastern Australia, Guam, Vladivostok								
☐ (GMT +11:00) Magadan, Solomon Islands, New Caledonia								

	□ (GMT +12:00)	Auckland, We	ellington, Fiji, K	Camchatk	a
(3)	From where are yo				
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	□ Home				
	□ Commuting				
	☐ Co-working sp	ace			
	□ Other				
(4)	Please rate your pr		— niority		
(1)	☐ Undergrad / M		inority		
	☐ PhD student	aster student			
	□ Postdoc				
	☐ Faculty				
	☐ Industry				
	□ Other				
(E)		1	 	. 2	
(5)	Have you attended			::	
	□ No, this is my	iirst remote c	omerence		
(4)	□ Yes		06	C	
(6)	Would you have a		Cont as on-site	e contere	nce
	in SomeLocation?		.11	C C 6	
	☐ Yes, I would		my attended	SomeCont	ın
	SomeLocation		C +1		•
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	tion and would	i not nave coi	ne to Oregon		
<b>B.2</b>	Overall Expe	rience			
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	onf as virtual confe			or attend	ung
(7)	My overall experie	ence of attend	ing remotely S	omeConf	1S
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	□ bad				
	□ poor				
	□ fair				
	□ good				
	□ excellent				
	□ ideal				
(8)	Compared to atten			otely allov	wed
	me to better focus	on the confer	rence	- 14	Ct
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	focused on				
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	to follow presen-				
	tations was				
	The possibility				
	to interact with				
	speakers was				
	The possibility				
	to interact with				
	participants				

was

(10)	(Optional) To spea		pectations on	attending	g a vir-							
	tual conference we	Better than	n As expecte	d Less	than							
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	to present my						(I followed e	verv sess	ion)			
	work was					□ 1	(1 Ionowea e	very sess	1011)			
(11)	Would you attend	more confe	erences each v	ear if th	ev are							
( )	offered online		,				(I skipped al	l ceccions	.)			
	□ Yes						(1 skipped ai	1 303310113	''			
	□ Maybe					B.4 Pre	sentation	-relate	d Inter	actions	s	
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	□ Other		<u></u>				is about ho					
B.3	Talk Sessions	1				and posters.	ontent preser	nied at in	ie comerc	ence in te	erms of p	apers
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(12)	What tools did					□ P	assively (I re	ad what o	others po	sted)		
	conference and				work?		ther					
			As ex- Les		id not		do you ra					
			•	n ex- us	se	this	virtual confe	rence co	mpared t	o on-site	e confere	nces?
	_	pected	pec	ted				much	some-	stayed	some-	much
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	Slack								worse	same	better	
(13)	How do you ra	_				The	ability to					
	virtual conference					ask	questions					
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		worse w	hat the	what	better	The	moderation					
			orse same	better		of	questions					
	The ability to at-					by	the session					
	tend talks was					_ cha	irs when					
	The ability to fo-					pos	ting to the					
	cus on the talks					Zoo	m chat was					
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	was					_ (19) (optio	onal): Pros: (	Other fee	dback on	positive	aspects of	of the
	The ability to					abilit	y to interact	during th	nis virtual	confere	nce	
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	a topic openly											
	with all partici-											
	pants was					(20) (optio	onal): Cons: (	Other fee	dback on	negative	aspects	of the
(14)	(optional) Pros: W	hat did you l	ike about pre-	recorded	talks?	abilit	y to interact	during th	is virtua	confere	nce	
(15)	(optional) Cons: V	√hat did you	ı not like abou	ıt pre-rec	orded							
	talks?											

confer resear track. hallwa (21)	Social Interacts content related to rences are about gothers (e.g., during leading to the second of	technical technical technical in the solution of the Z ated to the qualities of the qualiti	al present iteraction of at the di ection ho doom chat he present y of social	ations (pa s with kr nner table w you ex to intera tations?	apers / po nown and e): the ha eperience act with c	sters), d new ellway ed the others	□ Disagree □ Undecided □ Agree □ Strongly Agree (26) How many venues should be virtual in the future? □ 0% (all in person, please) □ 10% □ 20% □ 30% □ 40% □ 50% □ 60% □ 70%
		much worse	some- what	stayed the	some- what	much better	□ 80% □ 90%
	The interactions with researchers I already know were		worse	same	better □		<ul> <li>□ 100% (all virtual, please)</li> <li>(27) How likely is it that you would recommend attending SomeConf as virtual conference to a colleague?</li> <li>□ 0 (not all all likely to recommend)</li> <li>□ 1</li> <li>□ 2</li> </ul>
	The interactions with new researchers I didn't know before were						□ 3 □ 4 □ 5 □ 6 □ 7
(23)	(optional) What d	-	enjoy abo	ut social	interacti	ion at	□ 8 □ 9
							<ul><li>□ 10 (extremely likely to recommend)</li><li>(28) Pros: What worked well about attending remotely</li></ul>
(24)	(optional) How car conferences?	ı social iı	nteraction	s be impi	oved at v	rirtual	(29) Cons: What did not work well about attending remotely
B.6	General commattendance I would like to atte					C	(30) Other comments / suggestions / feedback

8

 $\hfill\Box$  Strongly Disagree