12-15 November, 2020

ISTAS 20
International Symposium on Technology and Society

IEEE
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SOCIAL IMPLICATIONS
OF TECHNOLOGY

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IEEE SSIT ISTAS20 – Final Conference Program

Go here for 12th, 14th, 15 Nov starting 8 or 9am MST

Track 1: https://asu.zoom.us/j/84317050041 (plenary)

Track 2: https://asu.zoom.us/j/81166609535 (regular)

Track 3: https://asu.zoom.us/j/87625476356 (regular)

Track 4: https://asu.zoom.us/j/88344730024 (vodcast)

Track 5: Pre-records: https://attend.ieee.org/istas-2020/london-lounge/

13th November Join us at PIT-UN (link in your **email** CreateSend)
12th November IEEE TechEthics Panel → Register FREE:
https://asu.zoom.us/webinar/register/WN_q04CYdzzTbOJAE4gjCH1xA

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If you need <u>anything</u> **at all email:** **ieeeistas20@protonmail.com**

IF ZOOM goes down? It's not the end of the world, try logging back in, or wait for further instructions in your email. We are only human, and so is Zoom (not) 😊

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Please stick to your presentation time slot – **20 min + Q&A and transition time**. If you feel like talking more you may be muted. Sorry! Take the conversation to **Track 4** and enjoy each other's company while having a cup of coffee remotely. You can share screen, yes! Don't worry if you don't have perfect slides… 2020 is a messy year but still perfect in its own way because we are alive and together for 4 days!

Can we please **relax** a little this week? Formalities aside, serious research aside, we gotta have a good time! Be a little silly, **within reason**, respecting we have 27 countries represented, 400+ authors, 200+ papers, and a a great deal of good will! Please unmute and clap your heads off at the end of EVERY presentation. Let's remember this conference! And let's stick together afterwards! **Community!**

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We can host your **powerpoint slides** on the web site, we can **post pre-records**, we will archive the talks, and you can send clips from YouTube featuring you and we will add them to the **London Lounge**. This web site should stay "open" as an archive of our commitment to seeing global change using a humancentric approach to tech development.

Email: ieeeistas20@protonmail.com

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In **Alphabetical Order** of the First Author

- Provisionally Accepted Full Papers, Short Papers, Abstracts

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8	Alireza Ebrahimi	In Search of a Pattern and Algorithmic Code for COVID-19: A participant self-customized diagnostic awareness system and simulator to comprehend, combat, coexist, cope and trace
I35	Alyssa Henning, Jennifer Vanos and Nathan Downs	Wearable Ultraviolet Radiation Exposure Sensors for Research and Personal Use
39	Amulya Prakash Prakash	Hope gardens
197	Andreas Spanias	SenSIP Center Research on Machine Learning for Solar Systems
182	Andreen Soley, Katina Michael and Roba Abbas	Celebration/Conclusion: Public Interest Technology - University Network
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24	Angelo Ferraro	Affective Rights: A Foundation for Ethical Standards
100	Angelo Ferraro	When AI Gossips
70	Anna-Lena Christina Krusch, Per Ole Uphaus and Harald Rau	Context Marketing in the Public Sphere: A Systematic Literature Review
77	Annie Patrick	Making Publics Visible.
136	Areana Tran and Serena Tran	Socio-Technical Education Platform for Young Adults: A Preliminary Overview Areana Tran, Faculty of Business and Law (Student), University of Wollongong Serena Tran, Faculty of Business and Law (Student), University of Wollongong
7	Bart Moons and Jeroen Hoebeke	Towards an Open Web of Things
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159	Ben Shneiderman	Design Lessons From AI's Two Grand Goals: Human Emulation and Useful Applications
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4	Yvette Pearson and Jason Borenstein	Robots, Ethics, and Pandemics: How Might a Global Problem Change the Technology's Adoption?
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If you miss your time slot, hop on Track 4 and hit record! 😊

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				Keynotes, Plenary, invited/Local Speakers	***Regular Author Track***	***Regular Author Track***
EST, United States	Tempe Arizona, United States	London, UK	Sydney, Australia	**ISTAS Track 1 (Sydney)**	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**
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Thursday, November 12, 2020 at 12:30:00 PM	Thursday, November 12, 2020 at 10:30:00 AM	Thursday, November 12, 2020 at 5:30:00 PM	Friday, November 13, 2020 at 4:30:00 AM	**(10:30 - 10:50am AZ)** | Speaker 146Bruce Schneier		
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Thursday, November 12, 2020 at 2:00:00 PM	Thursday, November 12, 2020 at 12:00:00 PM	Thursday, November 12, 2020 at 7:00:00 PM	Friday, November 13, 2020 at 6:00:00 AM	**(12:00 - 12:20pm AZ)** | Speaker Q&A (Bruce, Ben, Jamie)		
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EST, United States	Tempe Arizona, United States	London, UK	Sydney, Australia	**ISTAS Track 1 (Sydney)**	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**
Thursday, November 12, 2020 at 3:00:00 PM	Thursday, November 12, 2020 at 1:00:00 PM	Thursday, November 12, 2020 at 8:00:00 PM	Friday, November 13, 2020 at 7:00:00 AM	Berhan Taye and Mark A. Vasquez (IEEE TechEthics)		
Thursday, November 12, 2020 at 3:30:00 PM	Thursday, November 12, 2020 at 1:30:00 PM	Thursday, November 12, 2020 at 8:30:00 PM	Friday, November 13, 2020 at 7:30:00 AM	**(1:30 - 2:00pm AZ) | Speaker 140Andrew Maynard**	**(1:30 - 2:00pm AZ)** | Speaker: 53Fritz Smith	**(1:30 - 2:00pm AZ) | Speaker: 71Trevor Smith**
Thursday, November 12, 2020 at 4:00:00 PM	Thursday, November 12, 2020 at 2:00:00 PM	Thursday, November 12, 2020 at 9:00:00 PM	Friday, November 13, 2020 at 8:00:00 AM	**(2:00 - 2:30pm AZ) | Speaker 160Felicity Gerry**	**(2:00 - 2:30pm AZ) | Speaker: 24Angelo Ferraro**	**(2:00 - 2:30pm AZ)** | Speaker: 93Randy Soper, Karen Bennet, Pablo Rivas and Mathana
Thursday, November 12, 2020 at 4:30:00 PM	Thursday, November 12, 2020 at 2:30:00 PM	Thursday, November 12, 2020 at 9:30:00 PM	Friday, November 13, 2020 at 8:30:00 AM	**(2:30 - 3:00pm AZ) | Speaker 161Jennifer Oliva**	**(2:30 - 3:00 pm AZ)** | Speaker: 28Lee Barford	**(2:30 - 3:00 pm AZ)** | Speaker: 101Jason Lajoie, Alexi Orchard and Heather Love
Thursday, November 12, 2020 at 5:00:00 PM	Thursday, November 12, 2020 at 3:00:00 PM	Thursday, November 12, 2020 at 10:00:00 PM	Friday, November 13, 2020 at 9:00:00 AM	**(3:00 - 3:30pm AZ) | Speaker 148Fatima Chrifi Alaoui**	**(3:00 - 3:30pm AZ) | Speakers: 4Yvette Pearson and Jason Borenstein**	**(3:00 - 3:30pm AZ)** | Speaker: 72Hassan Shazly, Angelo Ferraro and Karen Bennet
Thursday, November 12, 2020 at 5:30:00 PM	Thursday, November 12, 2020 at 3:30:00 PM	Thursday, November 12, 2020 at 10:30:00 PM	Friday, November 13, 2020 at 9:30:00 AM	**(3:30 - 5:00pm AZ)** | Ethics, Governance and Emerging Technologies Panel (162Wendell Wallach, John C. Havens, Jumana Abu Ghazeleh)		
Thursday, November 12, 2020 at 6:00:00 PM	Thursday, November 12, 2020 at 4:00:00 PM	Thursday, November 12, 2020 at 11:00:00 PM	Friday, November 13, 2020 at 10:00:00 AM		**(4:00 - 4:30pm) AZ** | Speaker: 5Greg Adamson	**(4:00 - 4:30pm AZ) | Speaker: 69Sara Jordan and Phillip Gray**
Thursday, November 12, 2020 at 6:30:00 PM	Thursday, November 12, 2020 at 4:30:00 PM	Thursday, November 12, 2020 at 11:30:00 PM	Friday, November 13, 2020 at 10:30:00 AM		**(4:30 - 5:00 pm AZ)** | Speaker: 9Kevin D. Johnson	**(4:30 - 5:00pm AZ)** | Speaker: 100Angelo Ferraro

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Thursday, November 12, 2020 at 7:00:00 PM	Thursday, November 12, 2020 at 5:00:00 PM	Friday, November 13, 2020 at 12:00:00 AM	Friday, November 13, 2020 at 11:00:00 AM	**(5:00 - 5:30pm AZ)** | Speaker 150Rebecca Monteleone	**(5:00 - 5:30pm AZ)** | Speaker: 18Soraya Cardenas	**(5:00 - 5:30pm AZ)** | **Speaker: 106Elma Hajric**
Thursday, November 12, 2020 at 7:30:00 PM	Thursday, November 12, 2020 at 5:30:00 PM	Friday, November 13, 2020 at 12:30:00 AM	Friday, November 13, 2020 at 11:30:00 AM	**(5:30 - 6:30pm AZ)** | Social Psychology and Public Interest Technology (147Sam Wilson, Diane Sivasubramaniam and Julian Oldmeadow)	**(5:30 - 6:00pm AZ)** | Speaker: 29Nu Wang	**(5:30 - 6:00pm AZ)** | Speaker: 115Mckane Andrus, Sarah Dean, Thomas Gilbert, Nathan Lambert and Tom Zick
Thursday, November 12, 2020 at 8:00:00 PM	Thursday, November 12, 2020 at 6:00:00 PM	Friday, November 13, 2020 at 1:00:00 AM	Friday, November 13, 2020 at 12:00:00 PM		**(6:00pm - 6:30pm AZ)** | Speaker: 118Sumiko Shimo	**(6:00 - 6:30pm AZ)** | Speaker: 123Pablo Rivas
Thursday, November 12, 2020 at 8:30:00 PM	Thursday, November 12, 2020 at 6:30:00 PM	Friday, November 13, 2020 at 1:30:00 AM	Friday, November 13, 2020 at 12:30:00 PM	**(6:30 - 7:00pm AZ)** | Speaker 154Eusebio Scornavacca		
Thursday, November 12, 2020 at 9:00:00 PM	Thursday, November 12, 2020 at 7:00:00 PM	Friday, November 13, 2020 at 2:00:00 AM	Friday, November 13, 2020 at 1:00:00 PM	**(7:00 - 7:30pm AZ)** | Speaker 164Margie Jantti	**(7:00 - 8:00pm AZ)** | Speaker: 95Sherri Wasserman	**(7:00 - 7:30pm AZ)** | **Speaker: 108Shivam Zaveri**
Thursday, November 12, 2020 at 9:30:00 PM	Thursday, November 12, 2020 at 7:30:00 PM	Friday, November 13, 2020 at 2:30:00 AM	Friday, November 13, 2020 at 1:30:00 PM	**(7:30 - 8:00pm AZ)** | NRT ASU Smart Cities & Smart Living Speakers 166Troy McDaniel, Jordan Miller, Yatiraj Shetty, Edgard Musafiri Mimo, Devon McAslan and Katina Michael		**(7:30 - 8:00pm AZ)** | **Speaker: 128Salah Hamdoun**
Thursday, November 12, 2020 at 10:00:00 PM	Thursday, November 12, 2020 at 8:00:00 PM	Friday, November 13, 2020 at 3:00:00 AM	Friday, November 13, 2020 at 2:00:00 PM	**(8:00 - 9:00pm AZ)** | Author: 170Suzanne Tedrick Women of Color in Tech: A Blueprint for Inspiring and Mentoring the Next Generation of Technology Innovators	**(8:00 - 9:00pm AZ)** | Speaker: 38Alexander Hayes and Magali McDuffie	**(8:00 - 8:30pm AZ)** | Speaker: 19Diandra Prioleau, Priya Dames, Kiana Alikhademi and Juan Gilbert
Thursday, November 12, 2020 at 10:30:00 PM	Thursday, November 12, 2020 at 8:30:00 PM	Friday, November 13, 2020 at 3:30:00 AM	Friday, November 13, 2020 at 2:30:00 PM			**(8:30 - 9:00pm AZ)** | **Speaker: 15Isabel Laurenceau, Jessica Jones, Dekita Moon, Michelle Emamdie and Juan Gilbert**

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Thursday, November 12, 2020 at 11:30:00 PM	Thursday, November 12, 2020 at 9:30:00 PM	Friday, November 13, 2020 at 4:30:00 AM	Friday, November 13, 2020 at 3:30:00 PM	**(9:30 - 11:00pm AZ) |** Workshop: Designing a social preferable future 196Nathan Kinch, Mathew Mytka	**(9:30 - 10:00pm AZ)	Speaker: 31Steven Wright**	**(9:30 - 10:00pm AZ)	Speaker: 143Diana Madril**
Friday, November 13, 2020 at 12:00:00 AM	Thursday, November 12, 2020 at 10:00:00 PM	Friday, November 13, 2020 at 5:00:00 AM	Friday, November 13, 2020 at 4:00:00 PM		**(10:00 - 10:30pm AZ)	Speaker: 134 Megan Demko, Kennedy Wagner, Katina Michael and Terri Bookman**	**(10:00 - 10:30pm AZ)	Speaker: 22Francesca Vera**
Friday, November 13, 2020 at 12:30:00 AM	Thursday, November 12, 2020 at 10:30:00 PM	Friday, November 13, 2020 at 5:30:00 AM	Friday, November 13, 2020 at 4:30:00 PM		**(10:30 - 11:00pm AZ) |** Speaker: 43Jordan Miller, Troy McDaniel and Michael Bernstein	**(11:00 - 11:30pm AZ)** Speaker: 104Maryam Rezaeighaleh and Marzieh Rezaeighaleh
Friday, November 13, 2020 at 1:00:00 AM	Thursday, November 12, 2020 at 11:00:00 PM	Friday, November 13, 2020 at 6:00:00 AM	Friday, November 13, 2020 at 5:00:00 PM		11:00 - 11:30pm AZ)	Speaker: Kristin Sandvik	
Friday, November 13, 2020 at 1:30:00 AM	Thursday, November 12, 2020 at 11:30:00 PM	Friday, November 13, 2020 at 6:30:00 AM	Friday, November 13, 2020 at 5:30:00 PM		**(11:30 - 12:00pm AZ)** Speaker: Kholoud Al-Kayid and Rami Shahine	
Friday, November 13, 2020 at 2:00:00 AM	Friday, November 13, 2020 at 12:00:00 AM	Friday, November 13, 2020 at 7:00:00 AM	Friday, November 13, 2020 at 6:00:00 PM			
Friday, November 13, 2020 at 2:30:00 AM	Friday, November 13, 2020 at 12:30:00 AM	Friday, November 13, 2020 at 7:30:00 AM	Friday, November 13, 2020 at 6:30:00 PM			

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DAY THREE	Saturday, November 14, 2020 at 5:30:00 AM	Saturday, November 14, 2020 at 12:30:00 PM	Saturday, November 14, 2020 at 11:30:00 PM			
Saturday, November 14, 2020 at 8:00:00 AM	Saturday, November 14, 2020 at 6:00:00 AM	Saturday, November 14, 2020 at 1:00:00 PM	Sunday, November 15, 2020 at 12:00:00 AM			
Saturday, November 14, 2020 at 8:30:00 AM	Saturday, November 14, 2020 at 6:30:00 AM	Saturday, November 14, 2020 at 1:30:00 PM	Sunday, November 15, 2020 at 12:30:00 AM			
Saturday, November 14, 2020 at 9:00:00 AM	Saturday, November 14, 2020 at 7:00:00 AM	Saturday, November 14, 2020 at 2:00:00 PM	Sunday, November 15, 2020 at 1:00:00 AM	**(7:00 - 8:00am AZ)** Social Impact of Intelligence Amplification | Speaker: 152Joe Carvalko		
Saturday, November 14, 2020 at 9:30:00 AM	Saturday, November 14, 2020 at 7:30:00 AM	Saturday, November 14, 2020 at 2:30:00 PM	Sunday, November 15, 2020 at 1:30:00 AM			
Saturday, November 14, 2020 at 10:00:00 AM	Saturday, November 14, 2020 at 8:00:00 AM	Saturday, November 14, 2020 at 3:00:00 PM	Sunday, November 15, 2020 at 2:00:00 AM	**(8:00 - 9:00am AZ)** The value of being human - finding balance between the artificial and nature worlds | Speaker: 85Salema Veliu	**(8:00 - 8:30am AZ) | Speaker: 44Toby Shulruff**	**(8:00 - 8:30am AZ) | Speaker: 99José Antonio Cepero-Saravia, Cristina Dreifuss-Serrano and Pablo C. Herrera**
Saturday, November 14, 2020 at 10:30:00 AM	Saturday, November 14, 2020 at 8:30:00 AM	Saturday, November 14, 2020 at 3:30:00 PM	Sunday, November 15, 2020 at 2:30:00 AM		**(8:30 - 9:00am AZ) | Speaker 200Howard Wolfman**	**(8:30 - 9:00am AZ) | Speaker: 110Vandhana Ravi**
Saturday, November 14, 2020 at 11:00:00 AM	Saturday, November 14, 2020 at 9:00:00 AM	Saturday, November 14, 2020 at 4:00:00 PM	Sunday, November 15, 2020 at 3:00:00 AM	**(9:00 - 9:30am AZ) | Speaker: 183Faheem Hussain**	**(9:00 - 9:30am AZ) | Speaker: 57Lauryn Remmers and Katina Michael**	**(9:00 - 9:30am AZ) | Speaker: 112Shreya Chowdhary, Sam Daitzman, Ruby Eisenbud, Emma Pan and Erhardt Graeff**

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Saturday, November 14, 2020 at 11:30:00 AM	Saturday, November 14, 2020 at 9:30:00 AM	Saturday, November 14, 2020 at 4:30:00 PM	Sunday, November 15, 2020 at 3:30:00 AM	**(9:30 - 10:00am AZ)**	Speaker 185Netra Chhetri	**(9:30 - 10:00am AZ)	Speaker: 55Riley Tallman**	**(9:30 - 10:00am AZ)**	Speaker: 120Yunus Dogan Telliel and Robert Krueger
Saturday, November 14, 2020 at 12:00:00 PM	Saturday, November 14, 2020 at 10:00:00 AM	Saturday, November 14, 2020 at 5:00:00 PM	Sunday, November 15, 2020 at 4:00:00 AM	**(10:00 - 10:30am AZ):** SolarSPELL Workshop: 184Laura Hosman	**(10:00 - 10:30am AZ)	Speaker: 56Chengmeng Zhang and Wenqing Yu**	**(10:00 - 10:30am AZ)**	Speaker: 130Jeremy Pitt and Cranefield Stephen
Saturday, November 14, 2020 at 12:30:00 PM	Saturday, November 14, 2020 at 10:30:00 AM	Saturday, November 14, 2020 at 5:30:00 PM	Sunday, November 15, 2020 at 4:30:00 AM	**(10:30 - 11:30am AZ):** IEEE HAC & SIGHT Response to COVID-19	158Kartik Kulkarni, Sampath Veeraraghavan, John Funso, Pia Torres	**(10:30 - 11:00am AZ)**	Speakers	10Cheng Lin and Ajung Moon	**(10:30 - 11:00am AZ)**	Speakers: 7Bart Moons and Jeroen Hoebeke
Saturday, November 14, 2020 at 1:00:00 PM	Saturday, November 14, 2020 at 11:00:00 AM	Saturday, November 14, 2020 at 6:00:00 PM	Sunday, November 15, 2020 at 5:00:00 AM		**(11:00 - 11:30am AZ)**	Speaker: 126Clinton Andrews	**(11:00 - 11:30am AZ)	Speaker: 68Vivek Kaushal and Kavita Vemuri**
Saturday, November 14, 2020 at 1:30:00 PM	Saturday, November 14, 2020 at 11:30:00 AM	Saturday, November 14, 2020 at 6:30:00 PM	Sunday, November 15, 2020 at 5:30:00 AM	**(11.30-12.00pm AZ):** Greetings from the Field	173Jason Sargent	**(11:30 - 12:00pm AZ)	Speaker: 127Evagelia Emily Tavoulareas and Cyd Harrell**	**(11:30 - 12:00pm AZ)**	Speaker: 70Anna-Lena Christina Krusch, Per Ole Uphaus and Harald Rau
Saturday, November 14, 2020 at 2:00:00 PM	Saturday, November 14, 2020 at 12:00:00 PM	Saturday, November 14, 2020 at 7:00:00 PM	Sunday, November 15, 2020 at 6:00:00 AM	**(12:00 - 1:00pm AZ)**	Speaker 172Jason Sargent, Paul Scifleet and Mohamed Ibrahim	**(12:00 - 12:30pm AZ)	Speaker: 133 William Armstrong and Katina Michael**	**(12:00 - 12:30pm AZ)	Speaker: 76Annie Y. Patrick**
Saturday, November 14, 2020 at 2:30:00 PM	Saturday, November 14, 2020 at 12:30:00 PM	Saturday, November 14, 2020 at 7:30:00 PM	Sunday, November 15, 2020 at 6:30:00 AM		**(12.30 - 1:00pm AZ)	Speaker: 34 Caitlin Grady, Sarah Rajtmajer and Lauren Dennis**	**(12:30 - 1:00pm AZ)	Speaker: 83Julia Kolevski**
Saturday, November 14, 2020 at 3:00:00 PM	Saturday, November 14, 2020 at 1:00:00 PM	Saturday, November 14, 2020 at 8:00:00 PM	Sunday, November 15, 2020 at 7:00:00 AM	**(1:00 - 1:30pm AZ)**	Speaker 186Mahmud Farooque		

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Saturday, November 14, 2020 at 3:30:00 PM	Saturday, November 14, 2020 at 1:30:00 PM	Saturday, November 14, 2020 at 8:30:00 PM	Sunday, November 15, 2020 at 7:30:00 AM	**(1:30 - 2:00pm AZ)** Join HASTAC | Speaker 187Jacqueline Wernimont	**(1:30 - 2:00pm AZ)** | Speaker: 109Lauren Dennis, Sarah Rajtmajer and Caitlin Grady	**(1:30 - 2:00pm AZ)** | Speaker: 1Maria Jihan Sangil
Saturday, November 14, 2020 at 4:00:00 PM	Saturday, November 14, 2020 at 2:00:00 PM	Saturday, November 14, 2020 at 9:00:00 PM	Sunday, November 15, 2020 at 8:00:00 AM	**(2:00 - 2:30pm AZ)** Join fPET | Speaker 131Zachary Pirtle	**(2:00 - 2:30pm AZ)** | Speaker: 113Guillermo Lopez and Eduardo Ortiz-Rivera	**(2:00 - 2:30pm AZ)** | Speaker: 12Angel Torres Toukoumidis, Vladimir Robles-Bykbaev and Mario Cajamarca
Saturday, November 14, 2020 at 4:30:00 PM	Saturday, November 14, 2020 at 2:30:00 PM	Saturday, November 14, 2020 at 9:30:00 PM	Sunday, November 15, 2020 at 8:30:00 AM	**(2:30 - 3:00pm AZ)** About PugWash | Speaker 74Rachel Svetanoff	**(2:30 - 3:00pm AZ)** | Speaker: 117David Sidi, Jane Bambauer and Catherine Brooks	**(2:30 - 3:00pm AZ)** | Speaker: 25Davide Maria Parrilli and Rodrigo Hernández Ramírez
Saturday, November 14, 2020 at 5:00:00 PM	Saturday, November 14, 2020 at 3:00:00 PM	Saturday, November 14, 2020 at 10:00:00 PM	Sunday, November 15, 2020 at 9:00:00 AM		**(3:00 - 3:30pm AZ)** | Speaker: 125Walter Scheirer	**(3:00 - 3:30pm AZ)** | Speaker: 36Chenlu Feng and Donghee Yvette Wohn
Saturday, November 14, 2020 at 5:30:00 PM	Saturday, November 14, 2020 at 3:30:00 PM	Saturday, November 14, 2020 at 10:30:00 PM	Sunday, November 15, 2020 at 9:30:00 AM	**(3:00-4:30pm AZ)** Panel: What should tech in the public interest look like for Gen Z? | Moderator: 188Prof Judith Bessant | Speakers: Dr Rys Farthing, Ellis Howard, Yanique Bird	**(3:30 - 4:00pm AZ)** | Speaker: 103Giordano Benitez Torres and Michael King	**(3:30 - 4:00pm AZ)** | Speaker: 37Imani Sherman, Jasmine Bowers, Liz-Laure Laborde, Juan Gilbert, Jaime Ruiz and Patrick Traynor
Saturday, November 14, 2020 at 6:00:00 PM	Saturday, November 14, 2020 at 4:00:00 PM	Saturday, November 14, 2020 at 11:00:00 PM	Sunday, November 15, 2020 at 10:00:00 AM		**(4.00 - 5.00pm AZ)** | Speakers: 206Technology as Education in Facilitating Peace Dialogues for Women and Youth in Post-Conflict Rwanda and Afghanistan | Speakers: Yagana Hafed Oluwabukola Makinde	
Saturday, November 14, 2020 at 6:30:00 PM	Saturday, November 14, 2020 at 4:30:00 PM	Saturday, November 14, 2020 at 11:30:00 PM	Sunday, November 15, 2020 at 10:30:00 AM	**(4:30 - 5:30pm AZ)** Digital Afterlife: What happens to our data after our death and should we care? | Speaker 189Faheem Hussain	**(4:30 - 5:00pm AZ)** Speaker:11Jordan Richard Schoenherr and Robert Thomson	**(4:30 - 5:00pm AZ)** | Speaker: 40Chris Barton
Saturday, November 14, 2020 at 7:00:00 PM	Saturday, November 14, 2020 at 5:00:00 PM	Sunday, November 15, 2020 at 12:00:00 AM	Sunday, November 15, 2020 at 11:00:00 AM		**(5:00 - 5:30pm AZ)** | Speaker: 92Danil Prokhorov	**(5:00 - 5:30pm AZ)** | Speaker: 86Stephen Wilson

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Saturday, November 14, 2020 at 7:30:00 PM	Saturday, November 14, 2020 at 5:30:00 PM	Sunday, November 15, 2020 at 12:30:00 AM	Sunday, November 15, 2020 at 11:30:00 AM	**(5:30 - 6:00pm AZ)** Public Interest Technology and Global Development | Speaker 190Mary Jane C. Parmentier	**(5:30 - 6:00pm AZ) | Speaker: 80David Kolevski, Katina Michael, Roba Abbas and Mark Freeman**	**(5:30 - 6:00pm AZ) | Speaker: 48Kevin Kredit**
Saturday, November 14, 2020 at 8:00:00 PM	Saturday, November 14, 2020 at 6:00:00 PM	Sunday, November 15, 2020 at 1:00:00 AM	Sunday, November 15, 2020 at 12:00:00 PM	**(6:00 - 6:30pm AZ)** Thinking south: public interest technologies beyond American frameworks | Speaker: 119Martin Perez Comisso	**(6:00 - 6:30pm AZ) |** Speaker: 132Khaled Alrawashdeh and Stephen Goldsmith	**(6:00 - 6:30pm AZ) | Speaker: 49Rishabh Reddy, Rishabh Singh, Vidhi Kapoor and Prathamesh Churi**
Saturday, November 14, 2020 at 8:30:00 PM	Saturday, November 14, 2020 at 6:30:00 PM	Sunday, November 15, 2020 at 1:30:00 AM	Sunday, November 15, 2020 at 12:30:00 PM	**(6:30 - 7:00pm AZ) |** Speaker 165Devon McAslan	**(6:30 - 7:00pm AZ) | Speaker: 124Md Musfique Anwar**	**(6:30 - 7:00pm AZ) | Speaker: 114Maryam Heidari and Setareh Rafatirad**
Saturday, November 14, 2020 at 9:00:00 PM	Saturday, November 14, 2020 at 7:00:00 PM	Sunday, November 15, 2020 at 2:00:00 AM	Sunday, November 15, 2020 at 1:00:00 PM	**(7:00 - 7:30pm AZ) |** Speaker 141Sarah Martin		**(7:00 - 7:30pm AZ) | Speaker: 35Alyssa Henning, Jennifer Vanos and Nathan Downs**
Saturday, November 14, 2020 at 9:30:00 PM	Saturday, November 14, 2020 at 7:30:00 PM	Sunday, November 15, 2020 at 2:30:00 AM	Sunday, November 15, 2020 at 1:30:00 PM	**(7:30 - 8:00pm AZ) |** Speaker 197Andreas Spanias	**(7:30 - 8:00pm AZ) |** Speaker 203Clark MIller	
Saturday, November 14, 2020 at 10:00:00 PM	Saturday, November 14, 2020 at 8:00:00 PM	Sunday, November 15, 2020 at 3:00:00 AM	Sunday, November 15, 2020 at 2:00:00 PM	**(8:00 - 8:30pm AZ) |** Speaker 201Alexander Halavais		
Saturday, November 14, 2020 at 10:30:00 PM	Saturday, November 14, 2020 at 8:30:00 PM	Sunday, November 15, 2020 at 3:30:00 AM	Sunday, November 15, 2020 at 2:30:00 PM			
Saturday, November 14, 2020 at 11:00:00 PM	Saturday, November 14, 2020 at 9:00:00 PM	Sunday, November 15, 2020 at 4:00:00 AM	Sunday, November 15, 2020 at 3:00:00 PM			

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Sunday, November 15, 2020 at 12:00:00 AM	Saturday, November 14, 2020 at 10:00:00 PM	Sunday, November 15, 2020 at 5:00:00 AM	Sunday, November 15, 2020 at 4:00:00 PM			
Sunday, November 15, 2020 at 12:30:00 AM	Saturday, November 14, 2020 at 10:30:00 PM	Sunday, November 15, 2020 at 5:30:00 AM	Sunday, November 15, 2020 at 4:30:00 PM			
Sunday, November 15, 2020 at 1:00:00 AM	Saturday, November 14, 2020 at 11:00:00 PM	Sunday, November 15, 2020 at 6:00:00 AM	Sunday, November 15, 2020 at 5:00:00 PM			
Sunday, November 15, 2020 at 1:30:00 AM	Saturday, November 14, 2020 at 11:30:00 PM	Sunday, November 15, 2020 at 6:30:00 AM	Sunday, November 15, 2020 at 5:30:00 PM			
Sunday, November 15, 2020 at 2:00:00 AM	Sunday, November 15, 2020 at 12:00:00 AM	Sunday, November 15, 2020 at 7:00:00 AM	Sunday, November 15, 2020 at 6:00:00 PM			
Sunday, November 15, 2020 at 2:30:00 AM	Sunday, November 15, 2020 at 12:30:00 AM	Sunday, November 15, 2020 at 7:30:00 AM	Sunday, November 15, 2020 at 6:30:00 PM			
DAY FOUR	Sunday, November 15, 2020 at 1:00:00 AM	Sunday, November 15, 2020 at 8:00:00 AM	Sunday, November 15, 2020 at 7:00:00 PM			

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Sunday, November 15, 2020 at 8:00:00 AM	Sunday, November 15, 2020 at 6:00:00 AM	Sunday, November 15, 2020 at 1:00:00 PM	Monday, November 16, 2020 at 12:00:00 AM			
Sunday, November 15, 2020 at 8:30:00 AM	Sunday, November 15, 2020 at 6:30:00 AM	Sunday, November 15, 2020 at 1:30:00 PM	Monday, November 16, 2020 at 12:30:00 AM			
Sunday, November 15, 2020 at 9:00:00 AM	Sunday, November 15, 2020 at 7:00:00 AM	Sunday, November 15, 2020 at 2:00:00 PM	Monday, November 16, 2020 at 1:00:00 AM			
Sunday, November 15, 2020 at 9:30:00 AM	Sunday, November 15, 2020 at 7:30:00 AM	Sunday, November 15, 2020 at 2:30:00 PM	Monday, November 16, 2020 at 1:30:00 AM			
Sunday, November 15, 2020 at 10:00:00 AM	Sunday, November 15, 2020 at 8:00:00 AM	Sunday, November 15, 2020 at 3:00:00 PM	Monday, November 16, 2020 at 2:00:00 AM			
Sunday, November 15, 2020 at 10:30:00 AM	Sunday, November 15, 2020 at 8:30:00 AM	Sunday, November 15, 2020 at 3:30:00 PM	Monday, November 16, 2020 at 2:30:00 AM	**(8.30- 9:00pm AZ)** | Speaker: 82Ning Wang		
Sunday, November 15, 2020 at 11:00:00 AM	Sunday, November 15, 2020 at 9:00:00 AM	Sunday, November 15, 2020 at 4:00:00 PM	Monday, November 16, 2020 at 3:00:00 AM	**(9:00am - 9:40am AZ)** Engineers and Scientists in Community-based Collaborations | Speaker: 16Jean Boucher, Anthony Levenda, Jorge Morales-Guerrero, Madison Macias and Darshan Karwat	**(9:00 - 9:30 am AZ) |** Speaker: 14Jordan Richard Schoenherr	**(9:00 - 9:30pm AZ) | Speaker: 66Md Shoaib Ahmed, Tanjim Taharat Aurpa and Md Musfique Anwar**
Sunday, November 15, 2020 at 11:30:00 AM	Sunday, November 15, 2020 at 9:30:00 AM	Sunday, November 15, 2020 at 4:30:00 PM	Monday, November 16, 2020 at 3:30:00 AM	**(9:45am - 10:45am AZ)** Can we design socially-focused enterprises to address environmental, climate, and energy justice	**(9:30 - 10:00am AZ) |** Speaker: 21Cynthia Spiess	**(9:30 - 10:00am AZ) | Speaker: 98Nickolas Dodd**

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				Keynotes, Plenary, invited/Local Speakers	*Regular Author Track*	*Regular Author Track*
EST, United States	Tempe Arizona, United States	London, UK	Sydney, Australia	**ISTAS Track 1 (Sydney)**	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**
Sunday, November 15, 2020 at 12:00:00 PM	Sunday, November 15, 2020 at 10:00:00 AM	Sunday, November 15, 2020 at 5:00:00 PM	Monday, November 16, 2020 at 4:00:00 AM	challenges?	Speaker: 27Darshan Karwat, Jared Byrne and Jean Boucher	**(10:00 - 10:30am AZ)**	Speaker: 30Jason Lajoie, George Roter and Mark Abbott	**(10:00 - 10:30am AZ)**	Speaker: 102Farah Najar
Sunday, November 15, 2020 at 12:30:00 PM	Sunday, November 15, 2020 at 10:30:00 AM	Sunday, November 15, 2020 at 5:30:00 PM	Monday, November 16, 2020 at 4:30:00 AM	**(10:50am - 11:20am AZ)** When Mental Walls Lead to Physical Walls:	Speaker: 73Madison Macias, Peter Pohorily, Jorge Morales Guerrero and Darshan Karwat	**(10:30 - 11:00am AZ)**	**Speaker: 41Sara Lail, Matthew Gary, Matt Haslam, Angela Beck, Shirley Johnson, Brian Lail and Sergio Canu**	**(10:30 - 11:00am AZ)**	Speaker: 111Maria Clara Sousa Magalhães and Jalberth Fernandes de Araújo
Sunday, November 15, 2020 at 1:00:00 PM	Sunday, November 15, 2020 at 11:00:00 AM	Sunday, November 15, 2020 at 6:00:00 PM	Monday, November 16, 2020 at 5:00:00 AM		**(11:00 - 11:30am AZ)**	**Speaker: 75Beth-Anne Schuelke-Leech**	**(11:00 - 11:30am AZ)**	Speaker: 122Eric Stribling
Sunday, November 15, 2020 at 1:30:00 PM	Sunday, November 15, 2020 at 11:30:00 AM	Sunday, November 15, 2020 at 6:30:00 PM	Monday, November 16, 2020 at 5:30:00 AM	**(11:30 - 12:00pm AZ)**	Speaker 105Elma Hajric		
Sunday, November 15, 2020 at 2:00:00 PM	Sunday, November 15, 2020 at 12:00:00 PM	Sunday, November 15, 2020 at 7:00:00 PM	Monday, November 16, 2020 at 6:00:00 AM	**(12:00 - 12:30pm AZ)**	Speaker 192Vanessa Teague	**(12:00 - 12:30pm AZ)	** Speaker: 20Shubhadip Ray, Tharangini Palanivel, Norbert Herman and Yixuan Li	**(12:00 -12:30pm AZ)	** Speaker: 46Francis Mendoza and Hans Behrens
Sunday, November 15, 2020 at 2:30:00 PM	Sunday, November 15, 2020 at 12:30:00 PM	Sunday, November 15, 2020 at 7:30:00 PM	Monday, November 16, 2020 at 6:30:00 AM	**(12:30 - 1:00pm AZ)**	Speaker 175Nicole Stephensen	**(12:30 - 1:00pm AZ)	Speaker: 42Danielle Jacobs, Troy McDaniel, Arvind Varsani, Rolf Halden, Stephanie Forrest and Heewook Lee**	**(12:30 - 1:00pm AZ)	** Speaker: 50Josh Massad
Sunday, November 15, 2020 at 3:00:00 PM	Sunday, November 15, 2020 at 1:00:00 PM	Sunday, November 15, 2020 at 8:00:00 PM	Monday, November 16, 2020 at 7:00:00 AM	**(1:00 - 1:30pm AZ)**	Speaker 191Kobi Leins	**(1:00 - 1:30pm AZ)**	Speaker: 64Mohamad Soubra	**(1:00 - 1:30pm AZ)	Speaker: 88Katherine Harrison, Ahmet Börütecene, Jonas Löwgren, Desirée Enlund, Rasmus Ringdahl and Vangelis Angelakis**
Sunday, November 15, 2020 at 3:30:00 PM	Sunday, November 15, 2020 at 1:30:00 PM	Sunday, November 15, 2020 at 8:30:00 PM	Monday, November 16, 2020 at 7:30:00 AM	**(1:30 - 2:00pm AZ)**	Speaker 145Lindsay Robertson	**(1:30 - 2:00pm AZ)**	Speaker: 39Amulya Prakash Prakash	**(1:30 - 2:00pm AZ)	Speaker: 107Marzieh Rezaei Ghaleh and Maryam Rezaei Ghaleh**

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EST, United States	Tempe Arizona, United States	London, UK	Sydney, Australia	**ISTAS Track 1 (Sydney)**	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**
Sunday, November 15, 2020 at 4:00:00 PM	Sunday, November 15, 2020 at 2:00:00 PM	Sunday, November 15, 2020 at 9:00:00 PM	Monday, November 16, 2020 at 8:00:00 AM			
Sunday, November 15, 2020 at 4:30:00 PM	Sunday, November 15, 2020 at 2:30:00 PM	Sunday, November 15, 2020 at 9:30:00 PM	Monday, November 16, 2020 at 8:30:00 AM	**(2:00 - 3.30pm AZ)** Stare into the Lights my Pretties | Speakers: Jordan Brown, Roger Clarke and Katina Michael	**(2:30 - 3:00pm AZ) | Speaker: 52Donghee Yvette Wohn and Michael J. Lee**	**(2:30 - 3:00pm AZ) | Speaker: 47Leonard Bruce**
Sunday, November 15, 2020 at 5:00:00 PM	Sunday, November 15, 2020 at 3:00:00 PM	Sunday, November 15, 2020 at 10:00:00 PM	Monday, November 16, 2020 at 9:00:00 AM		**(3:00 - 3:30pm AZ) | Speaker: 97Damita Kaloostian, Brittany M. McCall and Nalini Chhetri**	**(3:00 - 3:30pm AZ) |** Speaker: 54Edgard Musafiri Mimo and Troy McDaniel
Sunday, November 15, 2020 at 5:30:00 PM	Sunday, November 15, 2020 at 3:30:00 PM	Sunday, November 15, 2020 at 10:30:00 PM	Monday, November 16, 2020 at 9:30:00 AM	**(3:30 - 4:00pm AZ) |** Speaker 129Rahim Mutlu and Roba Abbas	**(3:30 - 4:00pm AZ) | Speaker: 116Justin Colyar**	**(3:30 - 4:00pm AZ) |** Speaker: 58Parth Khopkar
Sunday, November 15, 2020 at 6:00:00 PM	Sunday, November 15, 2020 at 4:00:00 PM	Sunday, November 15, 2020 at 11:00:00 PM	Monday, November 16, 2020 at 10:00:00 AM	**(4:00 - 4:30pm AZ) |** Speaker 155Isabel Pedersen	**(4:00 - 4:30pm AZ) | Speaker: 32Razvan Amironesei, Emily Denton and Alex Hanna**	**(4:00 - 4:30pm AZ) |** Speaker: 59Haowen Fan
Sunday, November 15, 2020 at 6:30:00 PM	Sunday, November 15, 2020 at 4:30:00 PM	Sunday, November 15, 2020 at 11:30:00 PM	Monday, November 16, 2020 at 10:30:00 AM	**(4:30 - 5:00pm AZ) |** Speaker 198Andrew Illiadis	**(4:30 - 5:00pm AZ) | Speaker: 67Sountongnoma Martial Anicet Kiemde and Ahmed Dooguy Kora**	**(4:30 - 5:00pm AZ) | Speaker: 65Tanjim Taharat Aurpa, Md Shoaib Ahmed and Md Musfique Anwar**
Sunday, November 15, 2020 at 7:00:00 PM	Sunday, November 15, 2020 at 5:00:00 PM	Monday, November 16, 2020 at 12:00:00 AM	Monday, November 16, 2020 at 11:00:00 AM	**(5:00 - 5:30pm AZ) |** Moderator Christine Perakslis Q&A		**(5:00 - 5:30pm AZ) |** Speaker: 87Badhan Chandra Das and Md Musfique Anwar
Sunday, November 15, 2020 at 7:30:00 PM	Sunday, November 15, 2020 at 5:30:00 PM	Monday, November 16, 2020 at 12:30:00 AM	Monday, November 16, 2020 at 11:30:00 AM	**(5:30 - 6:30pm AZ)** Autism: Awareness, acceptance and public interest | Speaker 168Sandra Jones	**(5:30 - 6:00pm AZ) |** Speaker: 8Alireza Ebrahimi	**(5:30 - 6:00pm AZ) |** Speaker: 78Sarmistha Sarna Gomasta, Aditi Dhali and Md Musfique Anwar

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EST, United States	Tempe Arizona, United States	London, UK	Sydney, Australia	**ISTAS Track 1 (Sydney)**	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**
Sunday, November 15, 2020 at 8:00:00 PM	Sunday, November 15, 2020 at 6:00:00 PM	Monday, November 16, 2020 at 1:00:00 AM	Monday, November 16, 2020 at 12:00:00 PM		**(6:00 - 6:30pm AZ)	Speaker: 62Kathleen Vogel and Matthew Schmidt**	**(6:00 - 6:30pm AZ)	** Speaker: 81Tasnim Siraj, Md Musfique Anwar and Md. Al-Amin Bhuiyan
Sunday, November 15, 2020 at 8:30:00 PM	Sunday, November 15, 2020 at 6:30:00 PM	Monday, November 16, 2020 at 1:30:00 AM	Monday, November 16, 2020 at 12:30:00 PM	**(6:30 - 7:30pm AZ)** Being Human: Principles for Technology Design enabling Human and Planetary Flourishing	144Speaker Theresa Anderson	**(6:30 - 7:00pm AZ)	Speaker: 121Bidur Subedi and Stephanos Mavromoustakos**	**(6:30 - 7:00pm AZ)	Speaker: 26Brianna Richardson, Diandra Prioleau, Kiana Alikhademi and Juan Gilbert**
Sunday, November 15, 2020 at 9:00:00 PM	Sunday, November 15, 2020 at 7:00:00 PM	Monday, November 16, 2020 at 2:00:00 AM	Monday, November 16, 2020 at 1:00:00 PM		**(7:00 - 7:30pm AZ)	Speaker: 51Josh Massad**	**(7:00 - 7:30pm AZ)	** Speaker: 79Shinthi Tasnim Himi, Sarmistha Sarna Gomasta, Natasha Tanzila Monalisa and Md. Ezharul Islam
Sunday, November 15, 2020 at 9:30:00 PM	Sunday, November 15, 2020 at 7:30:00 PM	Monday, November 16, 2020 at 2:30:00 AM	Monday, November 16, 2020 at 1:30:00 PM	**(7:30 - 8:30pm AZ)** Publishing with IEEE SSIT (Newsletter, Blog, TSM, TTS)	195Speaker Terri Bookman, Katina Michael, Roba Abbas	**(7:30 - 8:00pm AZ)	Speaker: 63Peter Pohorily**	**(7:30 - 8:00pm AZ)	Speaker: 91Tamanna Afrose, Atashi Mani Ghosh, Murad Hossen and Md Musfique Anwar**
Sunday, November 15, 2020 at 10:00:00 PM	Sunday, November 15, 2020 at 8:00:00 PM	Monday, November 16, 2020 at 3:00:00 AM	Monday, November 16, 2020 at 2:00:00 PM		**(8:00 - 8:30pm AZ)	Speaker 205Ahmed Abbas**	**(8:00 - 8:30pm AZ)	Speaker: 94Md. Habibur Rahman, Tabia Tanzin Prama and Md Musfique Anwar**
Sunday, November 15, 2020 at 10:30:00 PM	Sunday, November 15, 2020 at 8:30:00 PM	Monday, November 16, 2020 at 3:30:00 AM	Monday, November 16, 2020 at 2:30:00 PM	**(8:30 - 9:30 pm AZ)** Reflections, Thanks and Close	Speakers: Katina Michael and Roba Abbas, Jumana Abu-Ghazaleh, Christine Perakslis		

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Keynotes, Plenary, invited/Local Speakers	*Regular Author Track*	*Regular Author Track*	*Podcast, Journalist Cnr, Student, Specialist*
ISTAS Track 1 (Sydney)	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**	**ISTAS Track 4 (Tempe RADIO)**
DAY ONE (Arizona, MST)			
(9:00 - 9:30am AZ) | Speaker 149Jeremy Pitt			
(9:30 - 10:00am AZ) | Speaker 151Christine Perakslis			
(10:00 - 10:30am AZ) Q&A with Jeremy and Christine			
(10:30 - 10:50am AZ) | Speaker 146Bruce Schneier			
(10:50 - 11:35am AZ) | Speaker 159Ben Shneiderman			
(11:35 - 12:00pm AZ) | Speaker 156Jamie Winterton			
(12:00 - 12:20pm AZ) | Speaker Q&A (Bruce, Ben, Jamie)			
(12:30 - 1:30pm AZ) | Designing Without the -Isms: How Tech			

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Inclusion Benefits Society Speaker 157Chancey Fleet, Nikki Stevens, Berhan Taye and Mark A. Vasquez (IEEE TechEthics)			
**(1:30 - 2:00pm AZ)	Speaker 140Andrew Maynard**	**(1:30 - 2:00pm AZ)**	Speaker: 53Fritz Smith	**(1:30 - 2:00pm AZ)	Speaker: 71Trevor Smith**	
**(2:00 - 2:30pm AZ)	Speaker 160Felicity Gerry**	**(2:00 - 2:30pm AZ)	Speaker: 24Angelo Ferraro**	**(2:00 - 2:30pm AZ)**	Speaker: 93Randy Soper, Karen Bennet, Pablo Rivas and Mathana	
**(2:30 - 3:00pm AZ)	Speaker 161Jennifer Oliva**	**(2:30 - 3:00 pm AZ)**	Speaker: 28Lee Barford	**(2:30 - 3:00 pm AZ)**	Speaker: 101Jason Lajoie, Alexi Orchard and Heather Love	
**(3:00 - 3:30pm AZ)	Speaker 148Fatima Chrifi Alaoui**	**(3:00 - 3:30pm AZ)	Speakers: 4Yvette Pearson and Jason Borenstein**	**(3:00 - 3:30pm AZ)**	Speaker: 72Hassan Shazly, Angelo Ferraro and Karen Bennet	
(3:30 - 5:00pm AZ)	Ethics, Governance and Emerging Technologies Panel (162Wendell Wallach, John C. Havens, Jumana Abu Ghazeleh)			
	(4:00 - 4:30pm) AZ	Speaker: 5Greg Adamson	**(4:00 - 4:30pm AZ)	Speaker: 69Sara Jordan and Phillip Gray**	
	(4:30 - 5:00 pm AZ)	Speaker: 9Kevin D. Johnson	**(4:30 - 5:00pm AZ)**	Speaker: 100Angelo Ferraro	

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ISTAS Track 1 (Sydney)	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**	**ISTAS Track 4 (Tempe RADIO)**
(5:00 - 5:30pm AZ) | Speaker 150Rebecca Monteleone	(5:00 - 5:30pm AZ) | Speaker: 18Soraya Cardenas	**(5:00 - 5:30pm AZ) | Speaker: 106Elma Hajric**	
(5:30 - 6:30pm AZ) | Social Psychology and Public Interest Technology (147Sam Wilson, Diane Sivasubramaniam and Julian Oldmeadow)	(5:30 - 6:00pm AZ) | Speaker: 29Nu Wang	(5:30 - 6:00pm AZ) | Speaker: 115Mckane Andrus, Sarah Dean, Thomas Gilbert, Nathan Lambert and Tom Zick	
	(6:00pm - 6:30pm AZ) | Speaker: 118Sumiko Shimo	(6:00 - 6:30pm AZ) | Speaker: 123Pablo Rivas	
(6:30 - 7:00pm AZ) | Speaker 154Eusebio Scornavacca			
(7:00 - 7:30pm AZ) | Speaker 164Margie Jantti	(7:00 - 8:00pm AZ) | Speaker: 95Sherri Wasserman	**(7:00 - 7:30pm AZ) | Speaker: 108Shivam Zaveri**	
(7:30 - 8:00pm AZ) | NRT ASU Smart Cities & Smart Living Speakers 166Troy McDaniel, Jordan Miller, Yatiraj Shetty, Edgard Musafiri Mimo, Devon McAslan and Katina Michael		**(7:30 - 8:00pm AZ) | Speaker: 128Salah Hamdoun**	
(8:00 - 9:00pm AZ) | Author: 170Suzanne Tedrick Women of Color in Tech: A Blueprint for Inspiring and Mentoring the Next	(8:00 - 9:00pm AZ) | Speaker: 38Alexander Hayes and Magali McDuffie	(8:00 - 8:30pm AZ) | Speaker: 19Diandra Prioleau, Priya Dames, Kiana Alikhademi and Juan Gilbert	

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ISTAS Track 1 (Sydney)	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**	**ISTAS Track 4 (Tempe RADIO)**
Generation of Technology Innovators		**(8:30 - 9:00pm AZ)	Speaker: 15Isabel Laurenceau, Jessica Jones, Dekita Moon, Michelle Emamdie and Juan Gilbert**	
(9:00 - 9:30pm AZ) | Speaker: 202Darryl Keeton			
(9:30 - 11:00pm AZ) | Workshop: Designing a social preferable future 196Nathan Kinch, Mathew Mytka	**(9:30 - 10:00pm AZ)	Speaker: 31Steven Wright**	**(9:30 - 10:00pm AZ)	Speaker: 143Diana Madril**	
	**(10:00 - 10:30pm AZ)	Speaker: 134 Megan Demko, Kennedy Wagner, Katina Michael and Terri Bookman**	**(10:00 - 10:30pm AZ)	Speaker: 22Francesca Vera**	
	(10:30 - 11:00pm AZ) | Speaker: 43Jordan Miller, Troy McDaniel and Michael Bernstein	**(11:00 - 11:30pm AZ)** Speaker: 104Maryam Rezaeighaleh and Marzieh Rezaeighaleh	
	11:00 - 11:30pm AZ)	Speaker: Kristin Sandvik		
	(11:30 - 12:00pm AZ) Speaker: Kholoud Al-Kayid and Rami Shahine		

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DAY THREE (Arizona, MST)			
(7:00 - 8:00am AZ) Social Impact of Intelligence Amplification | Speaker: 152Joe Carvalko			
(8:00 - 9:00am AZ) The value of being human - finding balance between the artificial and nature worlds | Speaker: 85Salema Veliu	**(8:00 - 8:30am AZ) | Speaker: 44Toby Shulruff**	**(8:00 - 8:30am AZ) | Speaker: 99José Antonio Cepero-Saravia, Cristina Dreifuss-Serrano and Pablo C. Herrera**	**(8:00 - 8:30am AZ)** |17Nicolai Iversen, Morten Birkved and Dylan Cawthorne
	(8:30 - 9:00am AZ) | Speaker 200Howard Wolfman	**(8:30 - 9:00am AZ) | Speaker: 110Vandhana Ravi**	
(9:00 - 9:30am AZ) | Speaker: 183Faheem Hussain	**(9:00 - 9:30am AZ) | Speaker: 57Lauryn Remmers and Katina Michael**	**(9:00 - 9:30am AZ) | Speaker: 112Shreya Chowdhary, Sam Daitzman, Ruby Eisenbud, Emma Pan and Erhardt Graeff**	
(9:30 - 10:00am AZ) | Speaker 185Netra Chhetri	**(9:30 - 10:00am AZ) | Speaker: 55Riley Tallman**	**(9:30 - 10:00am AZ) |** Speaker: 120Yunus Dogan Telliel and Robert Krueger	

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ISTAS Track 1 (Sydney)	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**	**ISTAS Track 4 (Tempe RADIO)**
(10:00 - 10:30am AZ): SolarSPELL Workshop: 184Laura Hosman	**(10:00 - 10:30am AZ)	Speaker: 56Chengmeng Zhang and Wenqing Yu**	**(10:00 - 10:30am AZ)	Speaker: 130Jeremy Pitt and Cranefield Stephen**	
(10:30 - 11:30am AZ): IEEE HAC & SIGHT Response to COVID-19	158Kartik Kulkarni, Sampath Veeraraghavan, John Funso, Pia Torres	**(10:30 - 11:00am AZ)**	Speakers	10Cheng Lin and Ajung Moon	**(10:30 - 11:00am AZ) |** Speakers: 7Bart Moons and Jeroen Hoebeke	
	(11:00 - 11:30am AZ)	Speaker: 126Clinton Andrews	**(11:00 - 11:30am AZ)	Speaker: 68Vivek Kaushal and Kavita Vemuri**	
(11.30-12.00pm AZ): Greetings from the Field	173Jason Sargent	**(11:30 - 12:00pm AZ)	Speaker: 127Evagelia Emily Tavoulareas and Cyd Harrell**	**(11:30 - 12:00pm AZ)	** Speaker: 70Anna-Lena Christina Krusch, Per Ole Uphaus and Harald Rau	
(12:00 - 1:00pm AZ)	Speaker 172Jason Sargent, Paul Scifleet and Mohamed Ibrahim	**(12:00 - 12:30pm AZ)	Speaker: 133 William Armstrong and Katina Michael**	**(12:00 - 12:30pm AZ)	Speaker: 76Annie Y. Patrick**	
	**(12.30 - 1:00pm AZ)	Speaker: 34 Caitlin Grady, Sarah Rajtmajer and Lauren Dennis**	**(12:30 - 1:00pm AZ)	Speaker: 83Julia Kolevski**	
(1:00 - 1:30pm AZ) | Speaker 186Mahmud Farooque			
(1:30 - 2:00pm AZ) Join HASTAC	Speaker 187Jacqueline Wernimont	**(1:30 - 2:00pm AZ)	Speaker: 109Lauren Dennis, Sarah Rajtmajer and Caitlin Grady**	**(1:30 - 2:00pm AZ)	Speaker: 1Maria Jihan Sangil**	

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ISTAS Track 1 (Sydney)	ISTAS Track 2 (Gong)	ISTAS Track 3 (Phoenix)	ISTAS Track 4 (Tempe RADIO)
(2:00 - 2:30pm AZ) Join fPET | Speaker 131Zachary Pirtle	(2:00 - 2:30pm AZ) | Speaker: 113Guillermo Lopez and Eduardo Ortiz-Rivera	(2:00 - 2:30pm AZ) | Speaker: 12Angel Torres Toukoumidis, Vladimir Robles-Bykbaev and Mario Cajamarca	
(2:30 - 3:00pm AZ) About PugWash | Speaker 74Rachel Svetanoff	(2:30 - 3:00pm AZ) | Speaker: 117David Sidi, Jane Bambauer and Catherine Brooks	(2:30 - 3:00pm AZ) | Speaker: 25Davide Maria Parrilli and Rodrigo Hernández Ramírez	
(3:00-4:30pm AZ) Panel: What should tech in the public interest look like for Gen Z? | Moderator: 188Prof Judith Bessant | Speakers: Dr Rys Farthing, Ellis Howard, Yanique Bird	(3:00 - 3:30pm AZ) | Speaker: 125Walter Scheirer	(3:00 - 3:30pm AZ) | Speaker: 36Chenlu Feng and Donghee Yvette Wohn	(3:00-4.00pm AZ) | How it started, how it's going - Education in Afghanistan (Safia Barikzai)
	(3:30 - 4:00pm AZ) | Speaker: 103Giordano Benitez Torres and Michael King	(3:30 - 4:00pm AZ) | Speaker: 37Imani Sherman, Jasmine Bowers, Liz-Laure Laborde, Juan Gilbert, Jaime Ruiz and Patrick Traynor	
	(4.00 - 5.00pm AZ) | Speakers: 206Technology as Education in Facilitating Peace Dialogues for Women and Youth in Post-Conflict Rwanda and Afghanistan | Speakers: Yagana Hafed Oluwabukola Makinde		(4.00 - 5.00pm AZ) | Speakers: 206Technology as Education in Facilitating Peace Dialogues for Women and Youth in Post-Conflict Rwanda and Afghanistan | Speakers: Yagana Hafed Oluwabukola Makinde
(4:30 - 5:30pm AZ) Digital Afterlife: What happens to our	(4:30 - 5:00pm AZ) Speaker:11Jordan Richard	(4:30 - 5:00pm AZ) | Speaker: 40Chris Barton	

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Keynotes, Plenary, invited/Local Speakers	*Regular Author Track*	*Regular Author Track*	*Podcast, Journalist Cnr, Student, Specialist*
ISTAS Track 1 (Sydney)	ISTAS Track 2 (Gong)	ISTAS Track 3 (Phoenix)	ISTAS Track 4 (Tempe RADIO)
data after our death and should we care?	Speaker 189Faheem Hussain	**Schoenherr and Robert Thomson**		
	**(5:00 - 5:30pm AZ)	Speaker: 92Danil Prokhorov**	**(5:00 - 5:30pm AZ)	Speaker: 86Stephen Wilson**	**(5.00 - 6.00pm AZ)	Speakers: 176Ben Corbett, Felix Harvey, Ziyi Kate Song, Kandice Stern, Nathan Rhodes, Jorel Basangan, Hadley Dixon, Yu Kai Teh and Jason Sargent**
(5:30 - 6:00pm AZ) Public Interest Technology and Global Development	Speaker 190Mary Jane C. Parmentier	**(5:30 - 6:00pm AZ)	Speaker: 80David Kolevski, Katina Michael, Roba Abbas and Mark Freeman**	**(5:30 - 6:00pm AZ)	Speaker: 48Kevin Kredit**	
(6:00 - 6:30pm AZ) Thinking south: public interest technologies beyond American frameworks	Speaker: 119Martin Perez Comisso	**(6:00 - 6:30pm AZ)	Speaker: 132Khaled Alrawashdeh and Stephen Goldsmith**	**(6:00 - 6:30pm AZ)	Speaker: 49Rishabh Reddy, Rishabh Singh, Vidhi Kapoor and Prathamesh Churi**	**(6.00 - 6.30pm)	Speaker: 136Areana Tran and Serena Tran**
**(6:30 - 7:00pm AZ)	Speaker 165Devon McAslan**	**(6:30 - 7:00pm AZ)	Speaker: 124Md Musfique Anwar**	**(6:30 - 7:00pm AZ)	Speaker: 114Maryam Heidari and Setareh Rafatirad**	
**(7:00 - 7:30pm AZ)	Speaker 141Sarah Martin**		**(7:00 - 7:30pm AZ)	Speaker: 35Alyssa Henning, Jennifer Vanos and Nathan Downs**	
**(7:30 - 8:00pm AZ)	Speaker 197Andreas Spanias**	**(7:30 - 8:00pm AZ)	Speaker 203Clark MIller**		
**(8:00 - 8:30pm AZ)	Speaker 201Alexander Halavais**			

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DAY FOUR (Arizona, MST)			
(8.30- 9:00pm AZ)	Speaker: 82Ning Wang			
(9:00am - 9:40am AZ) Engineers and Scientists in Community-based Collaborations	Speaker: 16Jean Boucher, Anthony Levenda, Jorge Morales-Guerrero, Madison Macias and Darshan Karwat	(9:00 - 9:30 am AZ)	Speaker: 14Jordan Richard Schoenherr	**(9:00 - 9:30pm AZ)	Speaker: 66Md Shoaib Ahmed, Tanjim Taharat Aurpa and Md Musfique Anwar**	
(9:45am - 10:45am AZ) Can we design socially-focused enterprises to address environmental, climate, and energy justice challenges?	Speaker: 27Darshan Karwat, Jared Byrne and Jean Boucher	(9:30 - 10:00am AZ)	Speaker: 21Cynthia Spiess	**(9:30 - 10:00am AZ)	Speaker: 98Nickolas Dodd**	
	(10:00 - 10:30am AZ)	Speaker: 30Jason Lajoie, George Roter and Mark Abbott	(10:00 - 10:30am AZ)	Speaker: 102Farah Najar	
(10:50am - 11:20am AZ) When Mental Walls Lead to Physical Walls:	Speaker: 73Madison Macias, Peter Pohorily, Jorge	**(10:30 - 11:00am AZ)	Speaker: 41Sara Lail, Matthew Gary, Matt Haslam, Angela Beck,**	(10:30 - 11:00am AZ)	Speaker: 111Maria Clara Sousa Magalhães and Jalberth Fernandes de Araújo	

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Morales Guerrero and Darshan Karwat	**Shirley Johnson, Brian Lail and Sergio Canu**		
	(11:00 - 11:30am AZ) | Speaker: 75Beth-Anne Schuelke-Leech	**(11:00 - 11:30am AZ) | Speaker: 122Eric Stribling**	
(11:30 - 12:00pm AZ) | Speaker 105Elma Hajric			**(11.30 -12.30 pm AZ)** Serious Privacy | Radio hosts K Royal, Paul Breitbarth
(12:00 - 12:30pm AZ) | Speaker 192Vanessa Teague	**(12:00 - 12:30pm AZ) | Speaker: 20Shubhadip Ray, Tharangini Palanivel, Norbert Herman and Yixuan Li**	**(12:00 -12:30pm AZ) | Speaker: 46Francis Mendoza and Hans Behrens**	
(12:30 - 1:00pm AZ) | Speaker 175Nicole Stephensen	**(12:30 - 1:00pm AZ) | Speaker: 42Danielle Jacobs, Troy McDaniel, Arvind Varsani, Rolf Halden, Stephanie Forrest and Heewook Lee**	**(12:30 - 1:00pm AZ) | Speaker: 50Josh Massad**	**(12.30 - 1.30 pm AZ) | Speaker: 174Lyssa Mandel, Jumana Abu-Ghazaleh**
(1:00 - 1:30pm AZ) | Speaker 191Kobi Leins	**(1:00 - 1:30pm AZ) | Speaker: 64Mohamad Soubra**	**(1:00 - 1:30pm AZ) | Speaker: 88Katherine Harrison, Ahmet Börütecene, Jonas Löwgren, Desirée Enlund, Rasmus Ringdahl and Vangelis Angelakis**	

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ISTAS Track 1 (Sydney)	**ISTAS Track 2 (Gong)**	**ISTAS Track 3 (Phoenix)**	**ISTAS Track 4 (Tempe RADIO)**
(1:30 - 2:00pm AZ) | Speaker 145Lindsay Robertson	**(1:30 - 2:00pm AZ)** | Speaker: 39Amulya Prakash Prakash	**(1:30 - 2:00pm AZ) | Speaker: 107Marzieh Rezaei Ghaleh and Maryam Rezaei Ghaleh**	
(2:00 - 3.30pm AZ) Stare into the Lights my Pretties | Speakers: Jordan Brown, Roger Clarke and Katina Michael	**(2:30 - 3:00pm AZ) | Speaker: 52Donghee Yvette Wohn and Michael J. Lee**	**(2:30 - 3:00pm AZ) | Speaker: 47Leonard Bruce**	
	(3:00 - 3:30pm AZ) | Speaker: 97Damita Kaloostian, Brittany M. McCall and Nalini Chhetri	**(3:00 - 3:30pm AZ)** | Speaker: 54Edgard Musafiri Mimo and Troy McDaniel	
(3:30 - 4:00pm AZ) | Speaker 129Rahim Mutlu and Roba Abbas	**(3:30 - 4:00pm AZ) | Speaker: 116Justin Colyar**	**(3:30 - 4:00pm AZ) | Speaker: 58Parth Khopkar**	
(4:00 - 4:30pm AZ) | Speaker 155Isabel Pedersen	**(4:00 - 4:30pm AZ) | Speaker: 32Razvan Amironesei, Emily Denton and Alex Hanna**	**(4:00 - 4:30pm AZ) | Speaker: 59Haowen Fan**	
(4:30 - 5:00pm AZ) | Speaker 198Andrew Illiadis	**(4:30 - 5:00pm AZ) | Speaker: 67Sountongnoma Martial Anicet Kiemde and Ahmed Dooguy Kora**	**(4:30 - 5:00pm AZ) | Speaker: 65Tanjim Taharat Aurpa, Md Shoaib Ahmed and Md Musfique Anwar**	
(5:00 - 5:30pm AZ) | Moderator Christine Perakslis Q&A		**(5:00 - 5:30pm AZ)** | Speaker: 87Badhan Chandra Das and Md Musfique Anwar	

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(5:30 - 6:30pm AZ) Autism: Awareness, acceptance and public interest | Speaker 168Sandra Jones	**(5:30 - 6:00pm AZ)** | Speaker: 8Alireza Ebrahimi	**(5:30 - 6:00pm AZ)** | Speaker: 78Sarmistha Sarna Gomasta, Aditi Dhali and Md Musfique Anwar	
	(6:00 - 6:30pm AZ) | Speaker: **62Kathleen Vogel and Matthew Schmidt**	**(6:00 - 6:30pm AZ)** | Speaker: 81Tasnim Siraj, Md Musfique Anwar and Md. Al-Amin Bhuiyan	
(6:30 - 7:30pm AZ) Being Human: Principles for Technology Design enabling Human and Planetary Flourishing | 144Speaker Theresa Anderson	**(6:30 - 7:00pm AZ)** | Speaker: **121Bidur Subedi and Stephanos Mavromoustakos**	**(6:30 - 7:00pm AZ)** | **Speaker: 26Brianna Richardson, Diandra Prioleau, Kiana Alikhademi and Juan Gilbert**	
	(7:00 - 7:30pm AZ) | Speaker: **51Josh Massad**	**(7:00 - 7:30pm AZ)** | Speaker: 79Shinthi Tasnim Himi, Sarmistha Sarna Gomasta, Natasha Tanzila Monalisa and Md. Ezharul Islam	
(7:30 - 8:30pm AZ) Publishing with IEEE SSIT (Newsletter, Blog, TSM, TTS) | 195Speaker Terri Bookman, Katina Michael, Roba Abbas	**(7:30 - 8:00pm AZ)**| Speaker: **63Peter Pohorily**	**(7:30 - 8:00pm AZ)** | **Speaker: 91Tamanna Afrose, Atashi Mani Ghosh, Murad Hossen and Md Musfique Anwar**	
	(8:00 - 8:30pm AZ) | Speaker **205Ahmed Abbas**	**(8:00 - 8:30pm AZ)** | **Speaker: 94Md. Habibur Rahman, Tabia Tanzin Prama and Md Musfique Anwar**	

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(8:30 - 9:30 pm AZ) Reflections, Thanks and Close | Speakers: Katina Michael and Roba Abbas, Jumana Abu-Ghazaleh, Christine Perakslis			

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TIME – DAY CONVERTER CHEAT SHEET

- **Because <u>we know</u> it can get rather confusing 😊 Welcome to the virtual world where the time-space collapse can do your head in, over and over again!**
- **You're not alone → seek help at <mark>IEEE Society on the Social Implications of Technology</mark>. We hear you! Loud and clear!**
  https://technologyandsociety.org/join-ssit/

USA - EST	USA - ARIZONA	LONDON	AUSTRALIA
Thursday, November 12, 2020 at 11:00:00 AM	Thursday, November 12, 2020 at 9:00:00 AM	Thursday, November 12, 2020 at 4:00:00 PM	Friday, November 13, 2020 at 3:00:00 AM
Thursday, November 12, 2020 at 11:30:00 AM	Thursday, November 12, 2020 at 9:30:00 AM	Thursday, November 12, 2020 at 4:30:00 PM	Friday, November 13, 2020 at 3:30:00 AM
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Remember <u>not all presentations</u> are full or short papers. Amongst these abstracts we have our plenary speakers, grantees, students, journalists, creative artists, indie filmmakers and more. Over 100 peer review papers submitted, unfortunately they did not all make it through R.0. For those papers provisionally accepted, we look forward to now working closely with authors to see their research published in the most appropriate IEEE SSIT Publication. All full papers, short papers and abstracts, <u>post revision</u>, will be published in IEEEXplore within 3 months of the conference end date. Stay tuned!

Katina Michael, General Chair ISTAS20

Netra Chhetri, Nalini Chhetri, Local Organising Chair ISTAS20

Roba Abbas, IEEE ISTAS20 Technical Program Chair, University of Wollongong

FINALLY WE WANT TO SAY THANK YOU FOR YOUR PATIENCE. WE WANT TO SAY THANK YOU TO OUR VOLUNTEERS. WE WANT TO SAY THANK YOU TO OUR IEEE SSIT LEADERSHIP! WE WANT TO SAY THANK YOU NEW AMERICA! WE WANT TO SAY A MEGA THANK YOU TO IEEE HAC WHO INSPIRED OUR STUDENTS TO JOIN US ABOUT THEIR INVOLVEMENT TO HUMANITARIAN ACTIVTIES. THANK YOU TO IEEE TECHETHICS. THANK YOU TO OUR PIONEERS, KEYNOTES, INVITED SPEAKERS, LOCAL SPEAKERS. THANK YOU TO ARIZONA STATE UNIVERSITY, SCHOOL FOR THE FUTURE OF INNOVATION IN SOCIETY FOR HOSTING THIS EVENT. TO OUR LOGISTICS STAFF. TO OUR FACULTY. TO THE AUTHORS. TO THE REVIEWERS. TO THE SUPPORTERS. TO THE REGISTRANTS WHO PAID MONEY TO COME AND THOSE WHO DID NOT- WE LOVE YOU ALL THE SAME! THANK U

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