



# 12th IEEE Global Humanitarian Technology Conference (GHTC)

Technology for the Benefit of Humanity

<https://ieeeghtc.org/>

September 8 - 11, 2022 | Santa Clara University, California, USA



## Schedule

Thursday, September 8th, 2022			
Time/Room	SCDI 2302	SCDI 1301	SCDI 1302
12:30 – 3:30 PM	Workshop: Machine Learning for Social Good	Workshop: Building Wireless Sensing Systems (Organized by Infineon)	Workshop: Synergies Between GHTC and CNSV
4:00 – 6:00 PM Ground Floor, SCDI	<b>Networking Social</b>		
6:00 – 9:00 PM SCDI 1302 and 1308	<b>Special Session:</b> Diversity in the Workplace: Retaining Early Career Women and Minority Engineers by IEEE-CNSV (6pm Pizza; 7pm Session)		

Friday, September 9th, 2022					
8:00 AM – 8:45 AM Ground Floor, SCDI	<b>Breakfast</b>				
8:45 AM – 9:00 AM SCDI 1302 and 1308	<b>Opening Remarks (Dr. Behnam Dezfouli and Dr. Elizabeth Belding)</b>				
9:00 AM – 9:30 AM SCDI 1302 and 1308	Keynote: To Care, and How We Get There (Dr. Neha Kumar, Georgia Tech)				
9:35 AM – 10:05 AM SCDI 1302 and 1308	Keynote: Technology's True Promise Lies in the Good we can Do (Janice Zdankus, Vice President, Hewlett Packard Enterprise)				
10:10 AM – 10:40 AM SCDI 1302 and 1308	Plenary: Federal humanitarian engineering: what programs are out there? (Aline D. McNaull, Senior Legislative Representative, IEEE-USA)				
10:40 AM – 11:00 AM	Break				
11:00 AM – 12:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	FTS1 Connectivity & Comm in Support of Development	FTS2 Good Health and Well Being (SDG3)	FTS3 Agriculture & Food Security (SDG2)	FTS4 Disaster Mitigation, Preparedness, Response & Recovery	FTS5 Tech that promote gender equality and empowerment of women and girls (SDG5)
12:00 PM – 1:00 PM Ground Floor, SCDI	<b>Lunch Break</b>				
1:00 PM – 1:50 PM SCDI 1302 and 1308	Panel Discussion: Quality Education Online and the Way Forward (Moderator: Patrick Kane, Infineon Technologies)				
2:00 PM – 2:30 PM SCDI 1302 and 1308	Plenary: One Week Wonder - Emergency PPE Delivery via A Global Humanitarian Collaboration of Makers (Kelly Yamanishi and Eric Hess, Maker Nexus, a nonprofit Makerspace in Sunnyvale, CA, USA)				
2:35 PM – 3:05 PM SCDI 1302 and 1308	Plenary: Introducing the West Coast MOVE Truck (Tim Lee, IEEE Region 6 Director)				
3:30 PM – 5:00 PM Leavy Center Lot	<b>Demonstration of the MOVE Vehicle</b>				
3:05 PM – 3:20 PM	Break				
3:20 PM – 5:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	FTS6 Connectivity & Comm in Support of Development	FTS7 Good Health and Well Being (SDG3)	FTS8 Agriculture & Food Security (SDG2)	FTS9 Affordable & Clean Energy (SDG7)	FTS10 Other Related UN SDG
6:00 PM – 9:00 PM SCDI 1302 and 1308	<b>Special Session:</b> Communications, computing, and power during disaster response by IEEE-CNSV (6pm Pizza; 7pm Session)				



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<b>Saturday, September 10th, 2022</b>					
8:00 AM – 9:00 AM Ground Floor, SCDI	<b>Breakfast</b>				
9:00 AM – 9:30 AM SCDI 1302 and 1308	Plenary: Academic Programs in Humanitarian Engineering (Moderator: Pritpal Singh, Villanova University; Allan Baez Morales, Santa Clara University and Khanjan Mehta, Lehigh University)				
9:35 AM – 10:05 AM SCDI 1302 and 1308	Keynote: IT for Sustainability (Puneet Sharma, HPE)				
10:10 AM – 10:40 AM SCDI 1302 and 1308	Plenary: Revolutionizing the Retail Informal Sector in Africa: Use Case of the Smart Kibanda Project (Kithinji Muriungi; Chris Murimi, Moi University, Nairobi, Kenya)				
10:40 AM – 11:00 AM	Break				
11:00 AM – 12:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	SATS1 Quality Education (SDG4)	SATS2 Good Health and Well Being (SDG3)	SATS3 Agriculture & Food Security (SDG2)	SATS4 Disaster Mitigation, Preparedness, Response & Recovery	SATS5 Other Related UN SGD
12:00 PM – 1:00 PM Ground Floor, SCDI	<b>Lunch Break</b>				
1:00 PM – 1:40 PM SCDI 1302 and 1308	Plenary: Introduction to EPICS in IEEE (Stephanie Gillespie, EPICS in IEEE Committee Chair, and Associate Dean from Tagliatela College of Engineering of University of New Haven)				
1:45 PM – 2:30 PM SCDI 1302 and 1308	Panel: Advancing DEI in Journalism with Tech: Opportunities and Guardrails (Moderator: Subbu Vincent. Markkula Center for Applied Ethics, SCU)				
2:35 PM – 3:05 PM SCDI 1302 and 1308	Plenary: Minimizing the Ecological Footprint using Machine Learning (Dr. Vishnu S. Pendyala, San Jose State University)				
3:05 PM – 3:20 PM	Break				
3:20 PM – 5:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	SATS6 Quality Education (SDG4)	SATS7 Good Health and Well Being (SDG3)	SATS8 Agriculture & Food Security (SDG2)	SATS9 Decent Work and Economic Growth (SDG8)	OPEN
6:00 PM – 9:00 PM Locatelli Building	<b>Conference Banquet</b> Remarks: SCU Speaker; Tim Lee (IEEE R6); Tom Coughlin (IEEE SSIT & IEEE CNSV); Winncy Du (IEEE SCV); Stephanie Gillespie (IEEE EPICS)				



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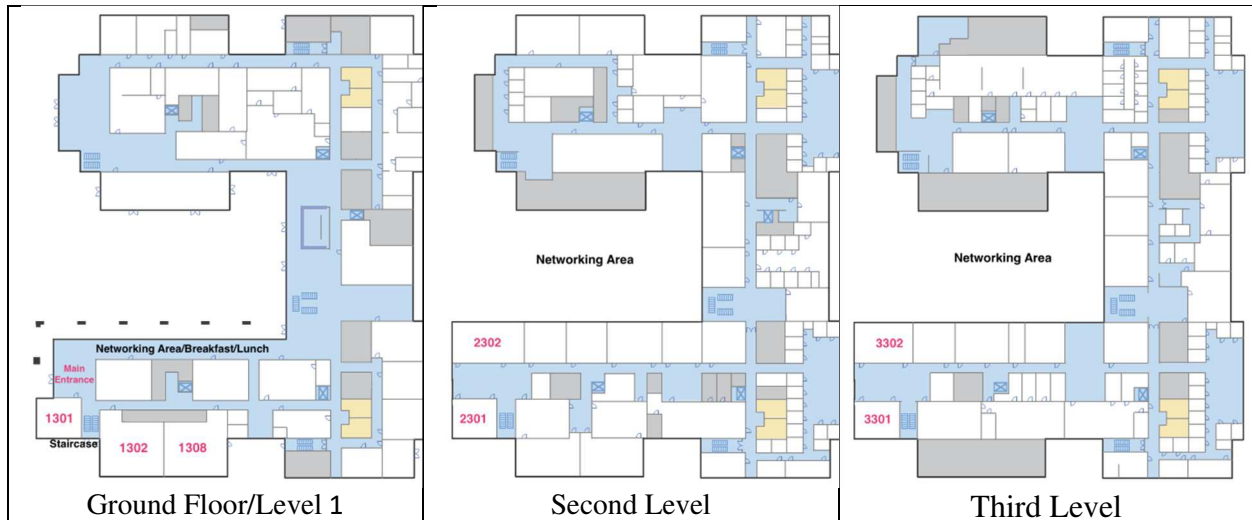
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Sunday, September 11th, 2022					
8:00 AM – 9:00 AM Ground Floor, SCDI	<b>Breakfast</b>				
9:00 AM – 9:30 AM SCDI 1302 and 1308	Keynote: Does Gender Impact Startup Funding Success? A Data-Driven Perspective (Maya Ackerman, Assistant Professor of Computer Science and Engineering, Santa Clara University)				
9:35 AM – 10:05 AM SCDI 1302 and 1308	Keynote: How the Internet Improves Humanity (Eric Goldman, Professor of Law, Santa Clara University)				
10:10 AM – 10:50 AM SCDI 1302 and 1308	Panel: Web3 and Human Rights (Moderator: Michael Kleinman, Director, Silicon Valley Initiative, Amnesty /AIUSA)				
10:50 AM – 11:00 AM	Break				
11:00 AM – 12:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	SUTS1 Quality Education (SDG4)	SUTS2 Good Health and Well Being (SDG3)	SUTS3 Tech that promote gender equality and empowerment of women and girls (SDG5)	SUTS4 Affordable & Clean Energy (SDG7)	OPEN
12:00 PM – 1:00 PM Ground Floor, SCDI	<b>Lunch Break</b>				
1:00 PM – 1:50 PM SCDI 1302 and 1308	Panel: HAC Capacity Building (Moderator: Pritpal Singh, IEEE Humanitarian Activities Committee)				
2:00 PM – 2:30 PM SCDI 1302 and 1308	Plenary: Clean energy solutions replacing portable fossil fuel generators: Technology and lessons from Ukraine and Hurricane Ida (Paul Shmotolokha, New Use Energy)				
2:30 PM – 2:50 PM SCDI 1302 and 1308	<b>Closing Remarks and GHTC 2023 Preview</b>				
2:50 PM – 3:10 PM	Break				
3:10 PM – 5:00 PM	SCDI 3302	SCDI 2302	SCDI 2301	SCDI 1301	SCDI 3301
Technical Sessions (Parallel Sessions)	SUTS5 Clean Water & Sanitation (SDG6)	SUTS6 Good Health and Well Being (SDG3)	SUTS7 Tech Impacts on Societal Evolution	SUTS8 Affordable & Clean Energy (SDG7)	OPEN
6:00 PM – 8:00 PM SCDI 1302 and 1308	<b>Co-located event: IEEE CS SCV Chapter Presentations</b> (Registration Managed by CS SCV)				





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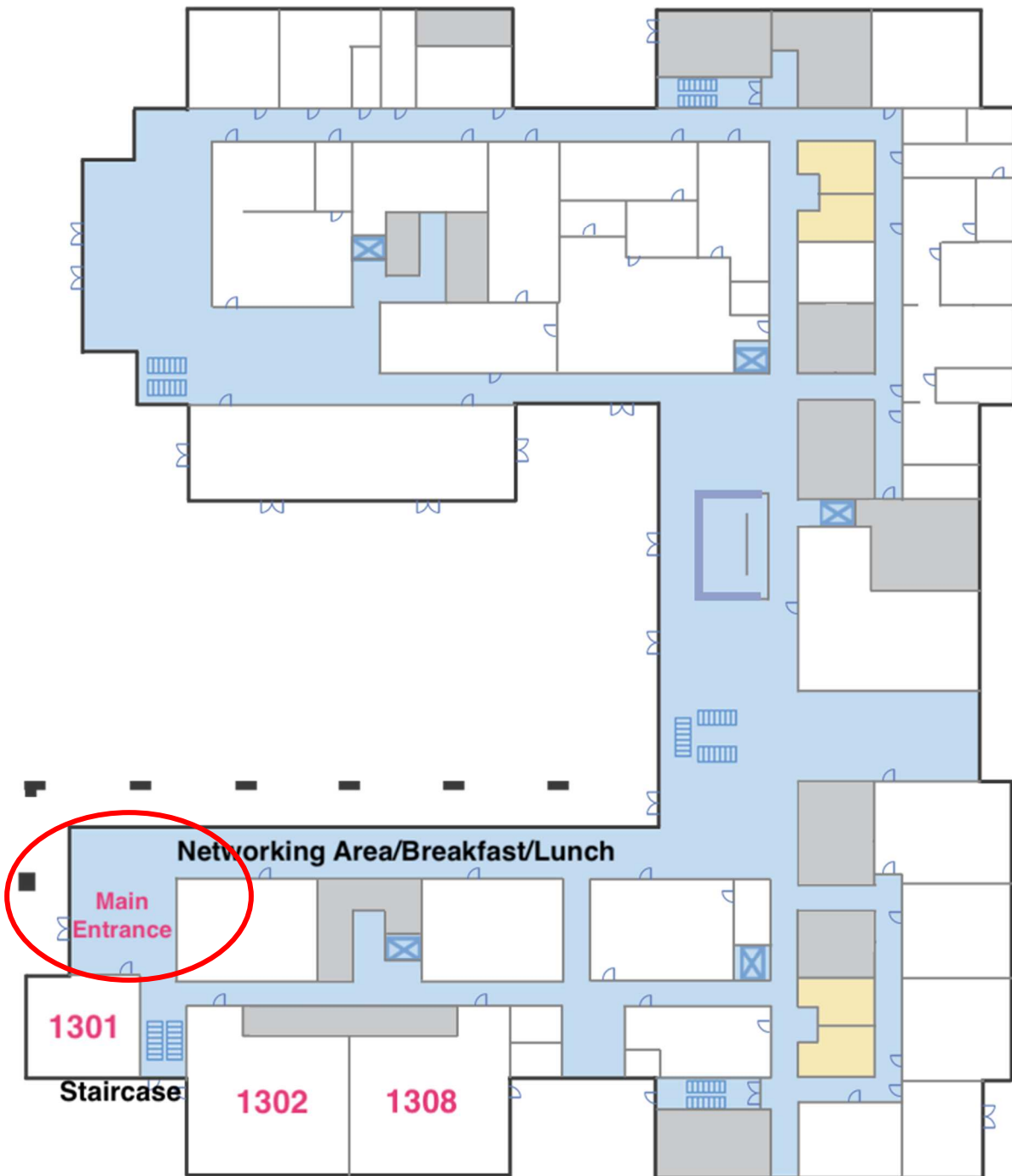
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## Rooms

### SCDI Ground Level (1)





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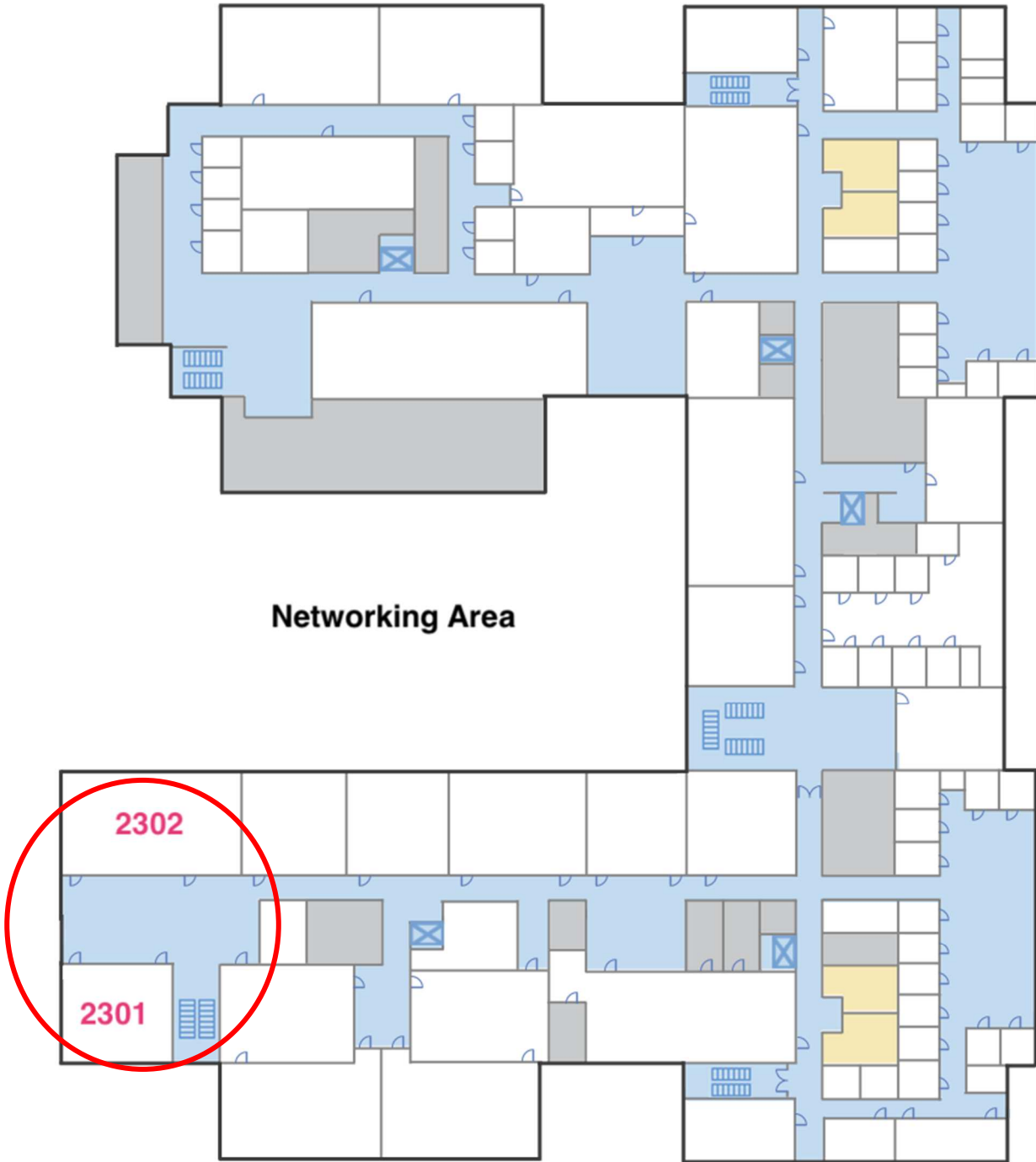
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## SCDI Second Level (2)





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## SCDI Third Level (3)

