

IEEE Healthcare Summit



Integrating BHI and AI to Combat Pandemics



Program Day 1 • 4 October 2021

Time (US ET)	Session Chair	Category	Speaker(s)	Topic/Title
8:30 – 9 AM	May Wang, Konstantina Nikita, & Metin Akay	Opening Ceremony	N/A	Opening Comments/Introduction
9 – 9:40 AM	Konstantina Nikita & Stephen Wong	Keynotes	<ul style="list-style-type: none"> • Mr. Benda Gu, <i>United Nations</i> • Dr. Ambika Bumb, <i>Department of States</i> 	<ul style="list-style-type: none"> • The multidimensional impact of the pandemic and the role of data in the global response to the crisis • Technical Solutions for Pandemic Response
9:40 – 9:45 AM		Transition		
9:45 – 10:25 AM	May Wang	Keynote	Dr. Xihong Lin , <i>Harvard University</i>	Learning from COVID-19 Data on Transmission, Health Outcomes, Interventions, and Vaccination
10:25 – 10:30 AM		Transition		
10:30 – 11:10 AM	Dimitris Fotiadis & May Wang	Plenary Activities	<ul style="list-style-type: none"> • Dr. Yuan-ting Zhang, <i>City University of Hong Kong</i> • Dr. Ilkka Korhonen, <i>Tampere University</i> 	<ul style="list-style-type: none"> • Wearable SUPER-MINDS for Combating CVD and COVID • Changes in Lifestyles and Stress Due to COVID-19 Pandemic Measured with Wearable Sensors

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11:10 – 11:15 AM		Transition		
11:15 – 11:55 AM	Konstantina Nikita	Keynote	Dr. Cecilia Mascolo , <i>University of Cambridge</i>	Respiratory Audio Signals and COVID-19: Challenges and Opportunities
11:55 – 12:00 PM		Transition		
12 – 1 PM	May Wang		<ul style="list-style-type: none"> • Dr. Paolo Bonato (EiC), <i>Harvard University</i> • Dr. Dimitrios I. Fotiadis (EiC), <i>University of Ioannina</i> 	<ul style="list-style-type: none"> • IEEE Open Journal of Engineering in Medicine and Biology • IEEE Journal of Biomedical and Health Informatics
1 – 1:30 PM	BREAK			

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1:30 – 2:50 PM	Yufei Huang	Plenary Activities	<ul style="list-style-type: none"> • Dr. Constantinos S. Pattichis, <i>University of Cyprus</i> • Dr. Ricardo Jardim-Goncalves, <i>NOVA University Lisbon</i> • Dr. Stephen T. C. Wong, <i>Houston Methodist</i> • Dr. Dimitrios I. Fotiadis, <i>University of Ioannina</i> 	<ul style="list-style-type: none"> • Operating an eHealth system for Prehospital and Emergency Health Care Support in Light of Covid-19 • ICU4Covid – Cyber-Physical Intensive Care Medical System For COVID-19 • Time-Series Recursive Classification for Clinical Decision Making to Improve Outcomes and Resource Allocations of COVID-19 Patients in a Major Health System in Texas • Towards the Development of Explainable Ai Models to Address the Clinical Unmet Needs in Covid-19
2:50 – 3:00 PM		Transition		

Time (US ET)	Session Chair	Category	Speaker(s)	Topic/Title
3:00 – 4:20 PM	Stephen Wong & Kathy Grise	Plenary Activities	<ul style="list-style-type: none"> • Dr. Paolo Bonato, <i>Harvard Medical School</i> • Dr. Omer T. Inan, <i>Georgia Tech</i> • Dr. Jessilyn Dunn, <i>Duke University</i> • Mr. Aditya Vaidyam, <i>Beth Israel Deaconess Medical Center</i> 	<ul style="list-style-type: none"> • Could We Do Better If We Relied On Mhealth Technology In The Fight Against Covid-19? • Wearable Technologies for Cardiopulmonary Sensing for Infectious Disease Monitoring • Digital Biomarkers of Respiratory Infection • The LAMP Platform: Harnessing Digital Phenotyping of Patient Generated Health Data in Clinical Care during the COVID-19 Pandemic
4:20 – 4:30 PM		Transition		
4:30 – 6:30 PM	Costas Pattichis & Subhamoy Mandal	Interactive Activities	N/A	Posters and Networking
6:30 – 6:45 PM	Subhamoy Mandal & May Wang	Networking	N/A	Datathon Judge Planning Briefing