



IEEE Healthcare Summit



Integrating BHI and AI to Combat Pandemics



Program Day 3 • 6 October 2021

Time (US ET)	Session Chair	Category	Speaker(s)	Topic/Title
8:30 – 9 AM	Kathy Grise & Julie Bernicker	Opening Ceremony	N/A	Poster Viewing & Networking
9 – 9:40 AM	May Wang	Keynote	Dr. Po-Shen Loh , <i>Carnegie Mellon University</i>	A New Approach for Fighting Pandemics, Combining Game Theory, Mobile Devices, and Network Theory
9:40 – 9:45 AM		Transition		
9:45 – 10:25 AM	Konstantina Nikita	Keynote	Dr. Dimitris Bertsimas , <i>Massachusetts Institute of Technology</i>	Data-Driven COVID-19 Vaccine Development for Janssen
10:25 – 10:30 AM		Transition		
10:30 – 11:10 AM	Kathy Grise & Julie Bernicker	Plenary Activities	<ul style="list-style-type: none"> Dr. Roberto Saracco, <i>IEEE Future Directions Committee</i> Dr. Carolyn McGregor, <i>Ontario Tech University</i> 	<ul style="list-style-type: none"> Use of Personal Digital Twin in Epidemic Monitoring and Control Pivoting AI for Health and Wellness through Transdisciplinary Innovation to Combat COVID-19
11:10 – 11:15 AM		Transition		
11:15 – 11:55 AM	May Wang & Kathy Grise	Keynote	Dr. Elizabeth Mynatt , <i>Georgia Institute of Technology</i>	Combating Health Disparities By Supporting Community Led Covid Response for Underserved Populations

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11:55 – 12:00 PM		Transition		
12:00 – 1:15 PM	Maria Fernanda Cabrera, Yasemin Akay, & Kathy Grise	Lunch Featured Panels	<ul style="list-style-type: none"> • Dr. Barbara Di Camillo, <i>University of Padova</i> • Dr. Arianna Dagliati, University of Pavia • Dr. Elizabeth Mynatt, <i>Georgia Institute of Technology</i> • Dr. Azadeh Yadollahi, <i>Institute of Biomaterials and Biomedical Engineering at the University of Toronto</i> 	<ul style="list-style-type: none"> • Facing COVID Health Disparities in Health Care of ALS and MS Patients: The BRAINTEASER Experience • International EHR data to Conduct Collaborative COVID-19 Research: is Health Informatics Inclusive by Design? • Combatting Health Disparities By Supporting Community Led Covid Response for Underserved Populations • The Lingering Effects of COVID on Women in Academia and Research
1:15 – 1:30 PM		Transition		

Time (US ET)	Session Chair	Category	Speaker(s)	Topic/Title
1:30 – 3:00 PM	Yufei Huang & Byung-Jun Yoon	Plenary Activities	<ul style="list-style-type: none"> • Dr. Ahmed A. Metwally, <i>Illumina AI Laboratory</i> • Dr. Elebeoba E. May, <i>University of Houston</i> • Dr. Mario Flores, <i>University of Texas at San Antonio</i> • Dr. Despina Moschou, <i>University of Bath</i> • Dr. Kristen Beck, <i>IBM</i> 	<ul style="list-style-type: none"> • Pre-symptomatic detection of COVID-19 from smartwatch data • Incorporating the Biomedical State of the Host in Multiscale Models of Infection and Disease • Deep Learning in Single Cell Analysis – A Survey of the Application of Deep Learning for scRNA-seq Analysis in the Present Pandemic • Lab-on-PCB Technology and the COVID-19 Outbreak Case Study • Semi-supervised Identification of SARS-CoV-2 Molecular Targets
3:00 – 3:15 PM		BREAK		

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3:15 – 4:20 PM	Andrew Laine and Subhamoy Mandal	Plenary Activities	<h2>DATA HACKATHON</h2> <ul style="list-style-type: none"> • <i>Best Poster Award (By Invitation Only): Costas Pattichis, Subhamoy Mandal, Mario Flores, Andrew Laine, and Yufei Huang</i> • <i>Best Data Hackathon Award (By Invitation Only): Nantia Nikita, Andrew Laine, Byung-Jun Yoon, Mario Flores, Yufei Huang, Bobak Mortazavi, Subhamoy Mandal, and May D Wang</i> 	
4:20 – 4:30 PM		BREAK		
4:30 – 5:45 PM	May Wang and Kathy Grise	Plenary Activities	<h2>Networking</h2>	