2020 IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE 2020)

Virtual Event 16 – 18 December 2020



IEEE Catalog Number: ISBN:

CFP20D42-POD 978-1-6654-1544-6 Copyright © 2020, Association for Computing Machinery (ACM) All Rights Reserved

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP20D42-POD
ISBN (Print-On-Demand):	978-1-6654-1544-6
ISBN (Online):	978-1-4503-7591-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400 Fax: (845) 758-2633 E-mail: curran@proceedings.com Web: www.proceedings.com



2020 IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE) CHASE 2020

Table of Contents

Welcome Message from the General Chair	vii
Organizing Committee	viii
Steering Committee	ix
Technical Program Committee Members	x

2020 IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)

Poster: Virtual Hand Rehabilitation using a Mobile Camera
Poster: Blockchain Application Feasibility in Telehealth for DSCSA Compliance
Remote Rehabilitation: A Field-Based Feasibility Study of an mHealth Resistance Exercise Band Demo
Curtis L. Petersen (Dartmouth College), Colin M. Minor (Dartmouth College), Suehayla Mohieldin (Dartmouth College), Linda G. Park (University of California), Ryan J. Halter (Dartmouth College), and John A. Batsis (University of North Carolina)
Poster: Towards Diagnostic Applications of Virtual/Mixed Reality to Brain Scans
Poster: VGGish Embeddings Based Audio Classifiers to Improve Parkinson's Disease Diagnosis 9 Sruthi Kurada Kurada (Advanced Math and Science Academy Charter School) and Abhinav Kurada Kurada (Columbia University School of Engineering and Applied Science - Department of Biomedical Engineering)
Poster: Heart Rate Performance of a Medical-Grade Data Streaming Wearable Device

Poster: Centralized vs. Decentralized Contact Tracing: Do GDP and Democracy Index Influence Privacy Choices?
Poster: A Pilot Study on Camera-Based Neurological Deficit Detection
Poster: Mobile Health for Alcohol Recovery and Relapse
Poster: Can a Mobile Application Aid in the Effectiveness of Skilled Nursing-Facility Communication Systems?

Author Index
