

ARAS-UAlberta Workshop

Safeguarding Public Health During Infectious Disease Pandemics Using Medical Robotics, Wearable Technology, and AI

Organizers



Mahdi Tavakoli, Professor
Director of Telerobotic and Biorobotic
Systems Group,
University of Alberta.



Hamid D. Taghirad, Professor
Director of Advanced Robotics and
Automated Systems,
K. N. Toosi University of Technology.

Speakers



Dr. Hongliang Ren,
Chinese University of Hong
Kong, Hong Kong.



Dr. Mohsen Khadem,
University of Edinburgh, UK



Dr. Ravi Vaidyanathan,
Imperial College London, UK



Prof. Javad Dargahi,
Professor,
Concordia University, Canada



Dr. Ehsan Tarkesh Esfahani,
Associate Professor,
University at Buffalo, USA



Dr. Yaser Maddahi,
President, CEO & Founder,
Tactile Robotics, Canada



Dr. Hossein Rouhani,
Assistant Professor, University of
Alberta, Canada



Mahdi Tavakoli, Professor
University of Alberta, Canada

Visit our Website: <https://aras.kntu.ac.ir>

The Mission

The overarching goal of this workshop is to create awareness among engineers, scientists, and medical professionals concerning how the world can be better prepared for the next pandemic, reducing the negative impacts on healthcare systems, healthcare workers, and patients.

The Program

30-minute talks including Q & A:

1. Pilot Study of Trans-oral Robotics to Meet the Minimal Exposure Needs During Infectious Disease Pandemics, **Dr. Ren**
2. Towards Autonomous Sampling of Distal Lung in Critically ill Patients in ICUs, **Dr. Khadem**
3. Telemedicine for Parkinson's Disease (PD) during the pandemic and beyond, **Dr. Vaidyanathan**
4. Addressing the COVID-19 clinical needs through haptics-enabled telerobotic systems, **Dr. Dargahi**
5. Reforming Rehabilitation Services in Respond to COVID-19 Outbreak, the requirement and future direction, **Dr. Tarkesh**
6. RoboEthics in COVID-19: A Case Study in Dentistry, **Dr. Maddahi**
7. Wearable sensors can enable remote health monitoring and telerehabilitation during a pandemic, **Dr. Rouhani**
8. Delivery of healthcare while physically distancing using robotics and AI, **Dr. Tavakoli**

Date & Time

Date: Monday, May 17, 2021, (27 Ordibehesht 1400)

Time: 17:00-21:00 (+4:30 GMT Tehran local time)

8:30-12:30 (-4:00 GMT Canada Eastern Time Zone)

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Free registration link:

https://b2n.ir/ARAS_Workshop