S8 : Intelligent Healthcare

Organizer(s) Information:

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Session summary :

This workshop will focus on current healthcare applications and sophisticated artificial intelligence approaches. The utilization of cutting-edge AI-based technology to improve healthcare performance is emphasized. There are several case studies from social and intellectual perspectives. By connecting physicians, patients, caregivers, and healthcare decision-makers with technologists, our accredited large-scale global workshop brings together the AI and health communities to stimulate talks about employing AI and building technological collaboration in healthcare.

Medical and technological advancements have aided in the growth of healthcare-related AI applications during the last half-century, including but not limited o the following: Digital medical image analysis as the increases in computer capacity, resulting in faster data collection and processing. Genom exploration techniques: increasing the size of genetic sequencing datasets. The proliferation of electronic health record systems. Technological advances in natural language processing and computer vision enable robots to replicate human perception. They have increased the precision of robot-assisted surgery. Developments in deep learning algorithms and data recording in rare diseases. AI algorithms might potentially be used to analyze large amounts of data from electronic health records to prevent and diagnose disease .

Large technology companies have also developed AI algorithms for healthcare. Furthermore, hospitals are looking to AI technologies to assist with operational efforts that save money, increase patient satisfaction, and satisfy staffing and workforce needs. Governments are investing in advancing AI in healthcare. Companies are developing technologies to help healthcare management improve business operations by increasing utilization, reducing patient boarding, decreasing durations of stay, and optimizing staffing levels..

The topics of the workshop will be covering but not limited to the following topics

- Artificial Intelligence in Mental Healthcare
- Medical Applications of Computing
- Medical Adaptive Systems
- Healthcare Administration and Delivery
- Medical Imaging and Machine Learning
- Surgical Robotics and Medical Robotics
- ML Technology to Assist the Elderly
- Optimization of Wearable Technology
- Examination of Human Genomic Data
- Pharmaceutical Drug Development.
- Approaches to Personalized Medicine and Service Delivery
- Assessment of Health Risks

Submission:

In order to submit to this session, please write "**S8**" as a prefix to your manuscript name. for example, if you have your file name as "**UAVmobility.pdf**", the submitted file name should be "**S8-UAVmobility.pdf**."

Template: **Template (Word)(6 pages max , 2 more pages with extra fees) (Latex)**

Submission link:

https://easychair.org/conferences/?conf=icsca2022