Meziane Hind

Mohammed First University
Morocco

Artificial intelligence in ophthalmology: Applications and opportunities

Abstract:

The COVID-19 pandemic has impacted everyday life, the global economy, travel, commerce and healthcare, which has demonstrated the weakness of current medical systems. Hence, technologies can be useful in reducing the severity of the impact of the coronavirus pandemic on individuals, organizations and society. Nowadays, about 420 million people have some of eye disease according to the World Health Organization (WHO). This problem grows really quickly due the aging of our population. Specialist thinks that we need much more ophthalmologists. Therefore, Artificial Intelligence (AI) has made significant advancements in ophthalmology by analyzing data and medical images. AI shows promise in improving diagnosis and access to eye care. For instance, AI algorithms can detect eye diseases like diabetic retinopathy and macular degeneration from retinal images, predict disease risk and progression, and provide treatment recommendations to augment doctors, etc. In this conference, we present an overview analysis of literature in the field of ophthalmology and AI. The study employs a comprehensive approach; combining advanced machine learning and deep learning (ML & DL) techniques to enhance new developments relevant to ophthalmology.

Biography

Hind MEZIANE is a Ph.D. candidate in Computer Science at Arithmetic, Scientific Computing and their Applications Laboratory (LACSA), Faculty of Sciences, Mohammed First University in Oujda, Morocco. She has a Master's degree in Computer Engineering from Faculty of Sciences, Mohammed First University in Oujda, Morocco (2019). Additionally, she holds several certifications in networking, artificial intelligence, and cybersecurity. Also, she is an active reviewer for more than 10 international journals listed in the Web of Science and Scopus. In addition to her academic experience, she's a Keynote Speaker of many international conferences and webinars.