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Decision Making Under Uncertainty Via Optimization, Modelling, and Analysis

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Contents

On the Maintenance Oversight of the Healthcare Sector Based on Artificial Intelligence

Sovan Bhattacharya, Dola Sinha, Chandan Bandyopadhyay, Saibal Majumder, and Arindam Biswas

Abstract A new way of thinking about health care has emerged thanks to the use of artificial intelligence (AI). In this review paper, we identify five primary applications of artificial intelligence (AI) in health care by reviewing the relevant literature. The applications are as follows: (1) patient digital care, (2) pharmaceutical and clinical research, (3) patient involvement and compliance, (4) rehabilitation, and (5) additional administrative tasks. Artificial intelligence (AI) may have several advantages for the medical sector. Among its many capabilities are EHR management, new vaccination and therapy discovery, medical prescription error detection, data storage and analysis, and technology-assisted rehabilitation. It might also motivate patients to engage fully in their treatment and adhere to the recommended schedules. It may help to manage the 2019 coronavirus disease (COVID-19) epidemic by early detection, reduce the administrative load placed on those working in the healthcare sector, and identify clinical challenges in imaging and diagnostic services. All the same,

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