

Revolutionizing Healthcare: A Prototype Serving Robot for Enhanced Medical Assistance

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Abstract: *This paper delves into the transformative potential of service robots in healthcare, addressing the growing need for innovative solutions. We examine the collaborative efforts between academia and the healthcare industry to develop and deploy service robots. The focus is on preventing infection spread, reducing human error, and optimizing patient care. Additionally, the paper explores the contemporary field of Robotic Process Automation (RPA) and its applications in relieving mundane tasks within the healthcare industry. The interdisciplinary analysis provides valuable insights into reshaping healthcare practices through robotic innovations.*

Keywords: service robots, healthcare innovation, robotic process automation (RPA), patient care, infection prevention, collaborative technology, interdisciplinary research, logistics optimization, robotic technologies, healthcare transformation