

# **Internet of Things in medicine and healthcare: Challenges and applications**

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Engineering a sustainable future (population growth, biodiversity, ecosystems)

Internet of Things (IoT) changed the world in the way that the whole physical world became a large information system. Application of IoT to medicine and healthcare defined Internet of Medical Things as an up-and-coming industry with nearly 50% of potential market share in coming decades, enabling prospective benefits such as generation of real-time and accurate medical data and resulting in significantly reduced response time in potentially emergency conditions of patients at reduced costs. However, fast development of IoT from different research centers and industries raised a number of challenges for the future such as interoperability, defining acceptable technical standards to support global connectivity, users' acceptance issues and finally, sharing the costs and reimbursement policies. Still, while solving those challenges, one has to expect that powerful data analytics shall transform the use of generated data from statistics to personalized medicine.