

## عنوان مقاله:

Security in networked and intelligent medical and therapeutic equipment

## محل انتشار:

سومین کنفرانس بین المللی پژوهش ها و دستاوردهای نو در علوم، مهندسی و فناوری های نوین (سال: 1402)

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## نویسنده:

Masoud Ahmadi pour kouti - Abadan University of Medical Sciences

## خلاصه مقاله:

Over the last few years, healthcare administrations have been digitizing and device lot their provision of care that led to an increased number of networked medical devices and medical telemetry. Due to such digitization, medical devices have made phenomenal strides in the course of the last half-century. These networked medical devices enhanced the quality and accessibility of health treatments by achieving pervasive healthcare vision. Moreover, these devices have transformed the canvas of medical treatments and improved the lives of the masses. Such innovation assisted in paving the way for reliable healthcare facilities through the introduction of new areas of therapeutic and diagnostic treatments. Medical devices nowadays are portable, networked and capable enough to facilitate human lives. The refined quality and variety of these devices put forward a promising future. However, on the other hand, the healthcare sector is experiencing the greatest amount of security breaches due to the presence of security flaws in medical devices. As these devices are no longer stand-alone systems and are network connected, the attack surface has increased profoundly. Actually, devices in practice were designed, developed and disseminated long ago. Therefore, they were not developed from the ground up with security as a vital design constraint. The flaws present in these devices have acquired the consideration of researchers from both industry and academia. In this paper, in this article, various security issues in smart medical equipment were investigated. We concluded this survey paper with some open research areas that should be properly considered in order to secure these life-critical medical devices.

## کلمات کلیدی:

Security, privacy, Internet of Medical Things, IoMT, mIoT, healthcare systems

## لینک ثابت مقاله در پایگاه سیویلیکا:

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