IEEE Transactions on Industrial Informatics

CALL FOR PAPERS

for Special Section on

Medical Data Security Solution for Healthcare Industries

Theme: Due to smart healthcare system is highly connected to advanced wearable devices, internet of things (IoT) and mobile internet, valuable patient information and other significant medical records are easily transmitted over the public network. The personal patient information and clinical records are also stored on the existing databases and local servers of the hospital and healthcare centers. This information not only provide a reference for healthcare professionals to make correct decision on the patient, but also provide basis for other professionals to make effective treatment and develop future plans for correct diagnosis. Further, the databases may be used by various research communities for different directions of research, without the any possibility of privacy violations. However, stealing of healthcare data is growing crime every day to greatly impact on financial loss. Presently, Coronavirus pandemic has been declared as a global health emergency by the World Health Organization (WHO). In this period, large amount of collected data to combat COVID-19 pandemic raises many security and privacy concerns. Aiming to guarantee the security of patient record in the transfer process, the integrity authentication of them is extremely important. Therefore, proper medical data security is becoming equally important in smart healthcare.

Motivated by these facts, this special issue targets the researchers from both academia and industrial to explore and share new ideas, approaches, theories and practices with focus on data security and privacy solutions for smart healthcare industries.

This special section will focus on (but not limited to) the following topics:

-Digital intellectual property protection technique
-Encryption of medical records
-Medical Information hiding
-Blockchain technology for healthcare
-Heathcare Biometrics
-Medical Information security techniques for modern health industries
-Security and privacy trends in the industrial IoMT
-Big data Security in healthcare
-Cloud data security
-Cyber Security in Telemedicine
-Halthdata management
-Protection systems/ mechanism against patient identity theft

Manuscript Preparation and Submission

Follow the guidelines in "Information for Authors" in the IEEE Transaction on Industrial Informatics http://www.ieee-ies.org/pubs/transactions-on-industrial-informatics . Please submit your manuscript in electronic form through Manuscript Central web site: https://mc.manuscriptcentral.com/tii . On the submitting page #1 in popup menu of manuscript type, select: SS on **Medical Data Security Solution for Healthcare Industries**

Submissions to this Special Section must represent original material that has been neither submitted to, nor published in, any other journal. Regular manuscript length is 8 pages.

Note: The recommended papers for the section are subject to final approval by the Editor-in-Chief. Some papers may be published outside the special section, at the EIC discretion.

Timetable: Deadline for manuscript submissions **June 30, 2021**
Expected publication date (tentative) January 2022

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