A Survey on Data Privacy Approaches in Biomedical Sensor Network

Abstract

Wireless Sensors are a new class of devices. They have the potential of capturing, processing and communicating the data to the required destination within the given timestamp. Biomedical Sensor Network (BSN) is explicitly used for constant monitoring of patients. Within the hospital or extended care environment, there is an overwhelming need for BSN for effective patient monitoring and collaborative data processing. Data privacy is the relationship between the collection and dissemination of data. Privacy concerns exist wherever personal identifiable information is collected and stored-in digital form. Improper or non-existent disclosure control can be a root cause for privacy issues. In this paper, these concerns are discussed and how they are addressed by existing systems, and also discusses current issues and solutions to the privacy concerns in a BSN based system.

References

- Security Issues in Biomedical Sensor Networks Tassos Dimitriou, Krontiris Ioannis Athens Information Technology, 19002 Peania, Athens, Greece {tdim,ikro}@ait. edu. gr
- K. Lorincz, D. J. Malan, T. R. F. Fulford-Jones, A. Nawoj, A. Clavel, V. Shnayerd,
A Survey on Data Privacy Approaches in Biomedical Sensor Network


- Secure and Privacy Approach in Mobile-Healthcare emergency Using PPSPC technique 1MOWNIKA. K, 2K. C. PRADEEP 1,2Dept. of CSE, KAKINADA INSTITUTE OF ENGINEERING & TECHNOLOGY, Yanam Road, Korangi, E. G. Dt, AP, India.

- Security and Privacy Challenges in Smart Sensor Networks Cristian Tanas Dept. Eng. de la Informació i les Comunicacions Universitat Autònoma de Barcelona ctanas@deic.uab.cat. Cristina Pèrez-Solà Dept. Eng. de la Informació i les Comunicacions Universitat Autònoma de Barcelona cperez@deic.uab.cat. Jordi Herrera-Joancomartí Dept. Eng. de la Informació i les Comunicacions Universitat Autònoma de Barcelona jherreraj@uoc.edu.


- Location Privacy In UrBSN Sensing Networks: Research Challenges And Directions Ioannis Krontirois, Goethe University Felix C. Freling, University Of Mannheim Tassos Dimitriou, Athens Information Technology.


A Survey on Data Privacy Approaches in Biomedical Sensor Network


Index Terms

Computer Science

Wireless

Keywords

Biomedical Sensor Network (BSN)  Privacy