

E-Health Telecommunication Systems and Networks



ISSN: 2167-9517



9 772167 951006 02

<https://www.scirp.org/journal/etsn>

Journal Editorial Board

ISSN Print: 2167-9517 ISSN Online: 2167-9525

<https://www.scirp.org/journal/etsn>

Editor-in-Chief

Prof. Mohamad Abou El-Nasr Arab Academy for Science, Technology and Maritime
Transport, Egypt

Editorial Board

Prof. Rabiul Ahasan	Universiti Sultan Zainal Abidin (UniSZA), Malaysia
Dr. Matthew Allsop	University of Leeds, UK
Prof. Christo Ananth	Francis Xavier Engineering College, Tirunelveli, India
Prof. Jiali Bao	Silveridge Institute of Technology, China
Prof. Lora Humphrey Beebe	University of Tennessee College of Nursing, USA
Prof. Chin-Ling Chen	Chaoyang University of Technology, China
Prof. Arif Demir	Kocaeli University, Türkiye
Dr. Anne Granstrøm Ekeland	Norwegian Centre for Integrated Care and Telemedicine University Hospital of North Norway, Norway
Prof. José Bringel Filho	State University of Piauí, Brazil
Dr. Mehdi Hosseinzadeh	Iran University of Medical Sciences, Iran
Prof. Boris A. Kobrinskii	Pirogov Russian National Research Medical University, Russia
Prof. Tatiana Kovacikova	Head of Science Operations, Belgium
Dr. Ye Li	Chinese Academy of Sciences, China
Prof. Sergey A. Lupin	National Research University of Electronic Technology, Russia
Dr. Sabato Manfredi	University of Napoli Federico II, Italy
Dr. Rashed Mazumder	Jahangirnagar University, Bangladesh
Dr. Emmanuel O.C. Mkpojiogu	Universiti Utara Malaysia, Malaysia
Dr. Hamid Moghaddasi	Beheshti University of Medical Sciences, Iran
Dr. Saumyendra V. Singh	KG Medical University, India
Prof. Wei Wang	Edith Cowan University, Australia
Dr. Stelios Zimeras	University of the Aegean, Greece

Table of Contents

Volume 14 Number 2

June 2025

CARE Framework for Healthcare Cybersecurity Defense: A Human-Centric Approach

M. Rahmany, A. Selvi.....23

E-Health Telecommunication Systems and Networks (ETSN)

Journal Information

SUBSCRIPTIONS

The *E-Health Telecommunication Systems and Networks* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2025 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2025 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: etsn@scirp.org



Call for Papers

E-Health Telecommunication Systems and Networks

ISSN Print: 2167-9517 ISSN Online: 2167-9525

<https://www.scirp.org/journal/etsn>

Editor-in-Chief

Prof. Mohamad Abou El-Nasr

Arab Academy for Science, Technology and Maritime Transport, Egypt

Editorial Board

Prof. Rabiul Ahasan	Universiti Sultan Zainal Abidin (UniSZA), Malaysia
Dr. Matthew Allsop	University of Leeds, UK
Prof. Christo Ananth	Francis Xavier Engineering College, Tirunelveli, India
Prof. Jiali Bao	Silveridge Institute of Technology, China
Prof. Lora Humphrey Beebe	University of Tennessee College of Nursing, USA
Prof. Chin-Ling Chen	Chaoyang University of Technology, China
Prof. Arif Demir	Kocaeli University, Türkiye
Dr. Anne Granstrøm Ekeland	Norwegian Centre for Integrated Care and Telemedicine University Hospital of North Norway, Norway
Prof. José Bringel Filho	State University of Piau, Brazil
Dr. Mehdi Hosseinzadeh	Iran University of Medical Sciences, Iran
Prof. Boris A. Kobrinskii	Pirogov Russian National Research Medical University, Russia
Prof. Tatiana Kovacikova	Head of Science Operations, Belgium
Dr. Ye Li	Chinese Academy of Sciences, China
Prof. Sergey A. Lupin	National Research University of Electronic Technology, Russia
Dr. Sabato Manfredi	University of Napoli Federico II, Italy
Dr. Rashed Mazumder	Jahangirnagar University, Bangladesh
Dr. Emmanuel O.C. Mkpojiogu	Universiti Utara Malaysia, Malaysia
Dr. Hamid Moghaddasi	Beheshti University of Medical Sciences, Iran
Dr. Saumyendra V. Singh	KG Medical University, India
Prof. Wei Wang	Edith Cowan University, Australia
Dr. Stelios Zimeras	University of the Aegean, Greece

ETSN is an international refereed journal dedicated to publishing state-of-the-art research in the field of e-health applications in telecommunication systems and networks. The journal focuses on systems, algorithms, and applications of e-health and medical telecommunications. ETSN publishes original research as well as review papers in the following areas:

Biomedical communications	Healthcare applications
Biomedical sensors and instrumentation	Healthcare information systems
Biomedical signal processing	Healthcare systems and services in transition: e-health, telemedicine and conditions for innovation
Body area and sensor networks	Medical informatics
Clinical ICT application	Patient pathways and coordinated care
Collaborative technologies in e-health and telemedicine systems	Prevention and self-management
Consumer health informatics	Security and privacy issues of e-health systems
E-health and m-health systems	Wearable sensors and systems
E-health in public health	Wireless communications and mobility
Grids	

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Website and E-Mail

<https://www.scirp.org/journal/etsn>

E-mail: etsn@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research
Publishing**

Website: <https://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org