International Journal on
Information Technologies and Security

Vol. XVII № 3 / 2025

# Sections in this issue:

## Information Technologies

Program Technology; Automation of Engineering; Intelligent Systems; e-Government & Privacy

## Information Security

Computer Security; Cryptocurrency; Cyber Security and Cyber Safety; Wireless Security

## Security Policy

Security Policy in Economic Digitalization

Clarivate Analytics
Emerging Sources Citation Index
WEB OF SCIENCE™

# International Journal on Information Technologies and Security

*Publication of the Union of Scientists in Bulgaria*
39, Madrid Blvd., Sofia 1505, Bulgaria

**IJITS is indexed in Emerging Sources Citation Index (ESCI) of Web of Science (Clarivate Analytics), $JIF_{2024}$=0.9**

## International Editorial Board

Prof. Nikos BARDIS, Ph.D. (Greece)
Prof. Dencho BATANOV, Ph.D. (Thailand)
Prof. Francesco BERGADANO, Ph.D. (Italy)
Prof. Betim CICO, D.Sc. (Albania)
Prof. Ilija GEORGIEV, Ph.D. (United States)
Assoc. Prof. Liliya GEORGIEVA, Ph.D. (UK)
Prof. Zoran HADZI-VELKOV, Ph.D. (North Macedonia)
Luis HERNÁNDEZ ENCINAS, Ph.D. (Spain)
Assoc. Prof. Candelaria HERNÁNDEZ GOYA (Spain)
Assoc. Prof. Nikolay HINOV, D.Sc. (Bulgaria)
Prof. Irena ILIEVA, Ph.D. (Bulgaria)
Prof. Gerrit JANSSENS, Ph.D. (Belgium)
Assoc. Prof. Karl. O. JONES, Ph.D. (UK)
Assoc. Prof. Todor KOBUROV, Ph.D. (Bulgaria)
Assoc. Prof. Sotiris KOTSIANTIS, Ph.D. (Greece)
Prof. Oleg KRAVETS, D.Sc. (Russian Federation)
Prof. Dmitry MAEVSKY, D.Sc. (Ukraine)
Christos MARKIDES, Ph.D. (Cyprus)
Assoc. Prof. Penka MARTINCOVA, Ph.D. (Slovakia)
Prof. Gerasimos MELETIOU, Ph.D. (Greece)
Prof. Sanjay MISRA, Ph.D. (Norway)
Assoc. Prof. Irina NONINSKA, Ph.D. (Bulgaria)
Prof. Nikolaos PAPADAKIS, Ph.D. (Greece)
Prof. Goran RAFAJLOVSKI, Ph.D. (North Macedonia)
Prof. Radi ROMANSKY, D.Sc. (Bulgaria)
Prof. Leon ROTHKRANTZ, D.Sc. (The Netherlands)
Assoc. Prof. Pavels RUSAKOVS, D.Sc. (Latvia)
Prof. Lada SADIKOVIĆ (Bosnia and Herzegovina)
Prof. Eugene SEMENKIN, D.Sc. (Russian Federation)
Prof. Yannis STAMATIOU, Ph.D. (Greece)
Prof. Radomir STANKOVIĆ, Ph.D. (Serbia)
Prof. Ventsislav TRIFONOV, Ph.D. (Bulgaria)
Prof. Alexis TSOUKIÀS, Ph.D. (France)
Prof. Larissa ZAITSEVA, D.Sc. (Latvia)

## Additional Reviewers Board

Assoc. Prof. Marin ARANITASI, Ph.D. (Albania)
Sebastian CHANDLER-CRNIGOJ, Ph.D. (UK)
Assoc .Prof. Sofoklis EFREMIDIS, Ph.D. (Greece)
Assoc. Prof. Nikolaj GORANIN, Ph.D. (Lithuania)
Plamena KARAIVANOVA, Ph.D. (Bulgaria)
Giovanni MAZZUTO, Ph.D. (Italy)
Assoc. Prof. K. SARAVANAN, Ph.D. (India)
Sameer SHUKLA (USA)
Heorhii ZEMLIANKO, Ph.D. (Ukraine).

## Technical Board

Radi ROMANSKY (*rrom@tu-sofia.bg*), Nikolay HINOV (*nhinov@tu-sofia.bg*)
Irina NONINSKA (*irno@tu-sofia.bg*), Todor KOBUROV. (*todor_kobourov@yahoo.com*),
Web-site administrator: Elena PARVANOVA (*el_parvanova@abv.bg*)

**ISSN 1313-8251,** *Copyright © 2025*

# IJITS – Indexing and Referencing

IJITS is included in the **National Reference List** of Bulgarian scientific journals and in the **List of Referred and Indexed Editions** of National Centre for Information and Documentation (https://nacid.bg/en/)

WEB OF SCIENCE™ Clarivate Analytics

CLARIVATE ANALYTICS EMERGING SOURCES CITATION INDEX INDEXED

IJITS is under evaluation for the **Science Citation Index Expanded (SCIE)** and it is accepted for database **Emerging Sources Citation Index (ESCI)** – index in the Web of Science™ Core Collection

Web of Science Group **Master Journal List** https://mjl.clarivate.com/search-results

ISI Imapct Factor
**IIF=1,449 (p.2)**

**Index "C"**

EBSCOhost
EBSCO Publishing, **USA**

Member of Crossref

Google scholar
Google Scholar, **USA**

CiteFactor Academic Scientific Journals
Managed by Google

ISSN INTERNATIONAL STANDARD SERIAL NUMBER INTERNATIONAL CENTRE — ISSN PORTAL The Global Index for Continuing Resources
https://portal.issn.org/resource/ISSN/1313-8251

Scilit
**MDPI, Switzerland**

ecoom
R&D Centre, **Belgium**

SCISPACE
**USA**

scite_
**USA**

ORES
ORES Science Platform

OCLC WorldCat
**USA/Canada**

editage
**Seoul, Korea**

Academic Resource Index ResearchBib

LetPub Your Manuscript Editor
**Boston, USA**

Journal Searches
Managed by Google, **USA**

Researcher.Life by Editage
Cactus Communications, **Japan**

MAFIADOC
https://moam.info/

MOST WIEDZY BRIDGE OF KNOWLEDGE
**Poland**

JOURNALFIND
Journal find, **Iran**

COBISS
**Slovenia**

Discovery by Editage

PSIref Bringing ideas to light
**USA**

impactfactor.pl
**Poland**

JOURNAL IMPACT
Platform free to use

Justscience
China

International Journal on
Information Technologies and Security
№ 3 (vol. 17) / 2025

*“Alley of colours” (cardboard, dry pastel, 30x25)*
*by the painter Zornitsa Boeva*
*(zori.boeva@gmail.com)*

ISSN 1313-8251