

# KATEDRA ZA INFORMACIJSKO VARNOST

**Predstojnik katedre: izr. prof. dr. Blaž Markelj**

Dan Inštituta za varstvoslovje 2023

15-16  
JUNE

# European Interdisciplinary Cybersecurity Conference

Internet Interdisciplinary Institute (IN3) / Universitat Oberta de  
Catalunya, Barcelona, Spain

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JOSEP DOMINGO-FERRER

### ETHICS BY DESIGN IN DECENTRALIZED COMPUTING

In our days, decentralized computing is a marked trend. Beyond its advantages in terms of scalability and fault tolerance, it is better adapted to ethical constraints than centralized computation (where a single party enjoys dictatorial power). I will sketch an approach based on cost utility to make ethical behavior the rational choice of participants. Next, I will describe some applications of this approach to problems in decentralized computing and decentralized machine learning.



FULVIO VALENZA

### NEXT GENERATION OF HYBRID THREATS

Nowadays, cyber-physical systems are ubiquitously present in our everyday life. Their usage spans many applications, like industrial control systems, modern buildings, homes, transportation, and critical infrastructures. Novel paradigms and technologies such as the Internet of Things (IoT), Software Defined Network (SDN), Cloud and Edge Computing, made all of these devices and environments become "intelligent", interconnected, dynamic, and flexible, thus also sometimes known simply as "smart". The increasing use of these smart devices and environments is bringing a novel technological revolution, that generates new business opportunities across industry sectors from healthcare to transport and from agriculture to manufacturing and new functionality for consumers. However, these opportunities come with their own new threats. Determining the potential vulnerabilities that new malwares may exploit in these smart systems and providing an adequate amount of protection is more challenging than in traditional computer systems for a variety of reasons that include low computational power, inadequate software quality, and also more importantly the fact that such environments combine human, physical and digital (cyber) aspects to the system design and implementation.

### SPECIAL SESSION ON ADVANCED AND RELIABLE SOLUTIONS TO COUNTER MALWARE AND STEGOMALWARE - DETONATOR 2022

Details

### SECURITY IN OPEN CLOUD INFRASTRUCTURES - SOCI 2022

Details

### COMPLEX NETWORK ANALYSIS FOR CYBERSECURITY - CNACYS 2022

Details



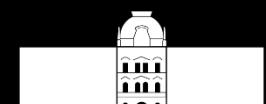
BART PRENEEL

### PROXIMING AND PRESENCE TRACING IN A PANDEMIC: LESSONS LEARNED

The corona pandemic is the first major pandemic in times of big data, AI and smart devices. Some nations have deployed these technologies on a large scale to support a trace/quarantine/test/isolate strategy in order to contain a pandemic. However, concerns have been raised w.r.t. some solutions that are not compatible with the privacy regimes in some jurisdictions including the European Union. Fortunately, a range of cryptographic techniques allows performing proximity and presence tracing based on data minimization. This talk will compare several protocols including the solutions developed by the DP-3T (Distributed Privacy-Preserving Proximity Tracing) consortium. Apps based on this protocol have been rolled out in more than 40 countries and states, with support of Google and Apple; in the EU, these apps have been interconnected to work as a single virtual app using the European Federated Gateway Service, which has linked 17 EU countries and reached approximately 100 million users. The talk will discuss the lessons learned from this large-scale deployment in which the principles of privacy-by-design and data minimization have played a central role.

Q2

## Security and Communication Networks



University of Maribor

Faculty of  
Criminal Justice and Security

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14-15  
JUNE  
2023

# European Interdisciplinary Cybersecurity Conference

University of Stavanger, Kjølv Egeland's Hus, Kristine Bonnevies vei 22, Stavanger, Norway

## Special Sessions

Complex network analysis for cybersecurity - CNACYS 2023

Details

Child online safety and harms - COSH 2023

Details

Digital Privacy for the Industrial Applications - DP4I 2023

Details



Faculty of  
Criminal Justice and Security

KONFERENCA

# Informacijska varnost

Zaupanje v človeka in tehnologijo

8. november 2023 \ Hotel Slovenija, Portorož



KONFERENCA

# Informacijska varnost

Zaupanje v človeka in tehnologijo

5. november 2021 \ on-line



KONFERENCA

# Informacijska varnost

Zaupanje v človeka in tehnologijo

8. november 2022 \ Hotel Slovenija, Portorož



## Organizacijski odbor

Vodja organizacijskega in programskega odbora:

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Člani organizacijskega odbora:

Mag. Miha Ozimek

Ida Majerle

prof. dr. Bojan Dobovšek

Anja Zahirović

Violeta Malić

Aleksander Podlogar



# **1. konferenca prava informacijske varnosti**

20. in 21. april 2020 • Hotel Slovenija, Portorož

**Blaž Markelj sodelovanje z GV Založbo**

izr. prof. dr. Blaž Markelj idejni in programski vodja konferenc prava v informacijski varnosti 2020, 2021, 2022 in 2023.



# **3. konferenca prava informacijske varnosti**



**16. in 17. maj 2022**  
Hotel Slovenija, Portorož

# **2. konferenca prava informacijske**

**19. in 20. april 2021 • Hotel Slovenija, Portorož**

# **4. konferenca prava informacijske varnosti**



**16. in 17. marec 2023**  
Hotel Slovenija, Portorož



KM Conference 2022, 29 June - 2 July 2022

Hosted by University of Maribor, Faculty of Criminal Justice and Security (FVV), Ljubljana, Slovenia

Join us also for an exciting Pre-Conference Industry Day on 29 June 2022

Themes: Knowledge Management, Cybersecurity, Learning, and Information Technology



## Conference Schedule and Detailed Program

- [Pre-Conference Industry Day \(Wednesday, 29 June 2022\) - Schedule, Detailed Program, and Invited Talks](#)
- [KM2022 In-Person Conference Schedule and Program \(Wednesday, 29 June - Saturday, 2 July 2022\)](#)

## SUBMIT PAPER/ABSTRACT/PANEL

[Call for Papers](#)

[Author's Guidelines](#)

[Link to the EasyChair - Paper Submission System](#)

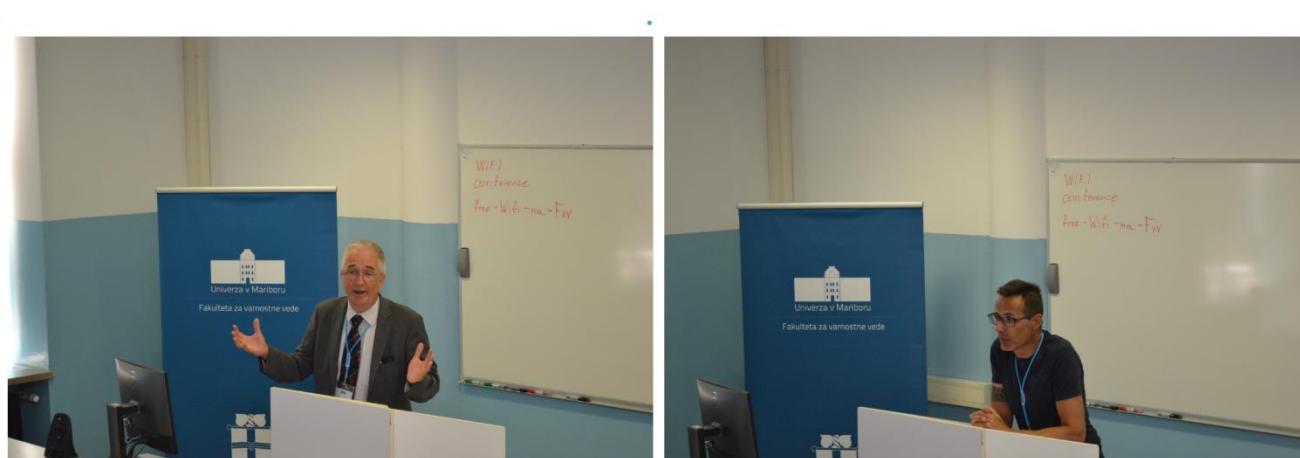
## KNOWLEDGE MANAGEMENT 2022

• 30. 06. 2022

Na Fakulteti za varnostne vede, Univerze v Mariboru od 29.6. do 1.7. 2022 poteka konferenca Knowledge Management 2022. Konferenco organiziramo v sodelovanju z International Institute for Applied Knowledge Management iz Nova Southeastern University, Florida, ZDA in Fakulteto za informacijske študije. Glavna tema konference je upravljanje z znanjem in zagotavljanje celovite informacijske varnosti.

Prvi dan je potekal "Industry day", v okviru katerega smo predstavili glavne izzive industrije na področju upravljanja znanja in kibernetske varnosti s primeri iz avtomobilske in finančne industrije in slovenske temeljne raziskave zagotavljanja informacijske varnosti. Naslednjih dveh dneh bo konferenca naslavljala različna vprašanja z omenjenih področij z vidika običajnih uporabnikov, organizacij, inovativnih pristopov, poslovne inteligence, informatike v zdravstvu in druge.

Za pomoč pri izvedbi konference in podporo se zahvaljujemo partnerju konference Telekom Slovenije d.d. in sponzorjem S&T Slovenija d.o.o. in Lekarna Ljubljana.



# Akademske aktivnosti 2022

## Uredniški odbor znanstvenih revij:

- Journal of Cyber Security and Mobility
- Frontiers in Computer Science
- International Journal of Cyber Forensics and Advanced Threat Investigations
- EUREKA: Social and Humanities

## Tematske izdaje znanstvenih revij (gostujući urednik):

- [IEEE Security & Privacy](#)  
Special Issue on Security and Privacy Issues of Home Globalization
- [Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications](#)  
Special Issue on Interdisciplinary Cybersecurity

## Recenzent za znanstvene revije:

- International Journal of Project Management
- Information Technology & People
- Industrial Management & Data Systems
- IEEE Access
- Plos ONE
- Frontiers in Psychology
- BMC Medical Informatics and Decision Making
- International Journal of Environmental Research and Public Health
- Sensors
- Sustainability
- Online Information Review
- Electronics
- Journal of Universal Computer Science
- International Journal of Advanced Computer Science and Applications
- Journal of Cyber Security and Mobility
- Frontiers in Computer Science
- Varstvoslovje

## Usmerjevalni odbor znanstvenih konferenc:

- European Interdisciplinary Cybersecurity Conference

## Organizacijski odbor znanstvenih konferenc:

- European Interdisciplinary Cybersecurity Conference 2022 (EICC 2022)
- CJS

## Programski odbor znanstvenih konferenc:

- The 2022 Multidisciplinary International Conference of Research Applied to Defense and Security (MICRADS'22)
- 4th International Workshop on Information Security Methodology and Replication Studies (IWSMR 2022)
- [17th International Conference on Availability, Reliability and Security \(ARES 2022\)](#)
- 5th International Workshop on Security Engineering for Cloud Computing (IWSECC 2022)
- [17th International Conference on Availability, Reliability and Security \(ARES 2022\)](#)
- Special Session on Advanced and Reliable Solutions to Counter Malware and Stegomalware (DETONATOR 2022)
- [European Interdisciplinary Cybersecurity Conference 2022 \(EICC 2022\)](#)
- The Seventh International Conference on Cyber-Technologies and Cyber-Systems (CYBER 2022)
- Future Technologies Conference 2022 (FTC 2022)
- Computing Conference 2022 (CC 2022)
- Future of Information and Communication Conference 2022 (FICC 2022)

## Recenzent za znanstvene konference:

- European Interdisciplinary Cybersecurity Conference 2022 (EICC 2022)



# Objave 2022

## 1.01 Izvirni znanstveni članek:

- FUJS, Damjan, VRHOVEC, Simon, ŽVANUT, Boštjan, VAVPOTIČ, Damjan. Improving the efficiency of remote conference tool use for distance learning in higher education : a kano based approach. Computers & Education : an international journal. [Print ed.]. May 2022, vol. 181, str. 1-15, ilustr. ISSN 0360-1315. <https://www.sciencedirect.com/science/article/abs/pii/S0360131522000197>, DOI: 10.1016/j.compedu.2022.104448. [COBISS.SI-ID 94955267]  
kategorija: 1A1 (Z, A'', A', A1/2)
- VRHOVEC, Simon, BERNIK, Igor, MARKELJ, Blaž. Explaining information seeking intentions. Computers & security. [Print ed.]. Feb 2023, vol. 125, art. 103038, 12 str. ISSN 0167-4048. DOI: 10.1016/j.cose.2022.103038. [COBISS.SI-ID 133817347]  
kategorija: 1A1 (Z, A'', A', A1/2)
- FUJS, Damjan, VRHOVEC, Simon, VAVPOTIČ, Damjan. Towards personalized user training for secure use of information systems. The international Arab journal of information technology. 2022, vol. 19, no. 3, str. 307-313, ilustr. ISSN 2309-4524. <https://iajit.org/portal/images/Year2022/No.3/19929.pdf>. [COBISS.SI-ID 107426563]  
kategorija: 1A4 (Z)
- MIHELIČ, Anže, VRHOVEC, Simon, BERNIK, Igor, DOMEJ, Andrej, FUJS, Damjan, HOVELJA, Tomaž, KERZNAR OSOLNIK, Sanja, PUCER, Patrik, VAVPOTIČ, Damjan, ŽVANUT, Boštjan, PRISLAN, Kaja. Use of smart devices by the elderly : nursing home residents in Slovenia. Journal of wireless mobile networks, ubiquitous computing and dependable applications : JOWUA. Sep. 2022, vol. 13, no. 3, str. 68-80, ilustr. ISSN 2093-5374. DOI: 10.22667/JOWUA.2022.09.30.068. [COBISS.SI-ID 126033667]  
kategorija: 1B (Z)
- MIHELIČ, Anže, ŽVANUT, Boštjan. (In)Secure smart device use among senior citizens. IEEE security & privacy : building confidence in a networked world. [Print ed.]. Jan./Feb. 2022, vol. 20, iss. 1, str. 62-71, ilustr. ISSN 1540-7993. DOI: 10.1109/MSEC.2021.3113726.  
kategorija: 1A1 (Z, A'', A', A1/2)
- JELOVČAN, Luka, MIHELIČ, Anže, PRISLAN, Kaja. Outsource or not? : an AHP based decision model for information security management. Organizacija : revija za management, informatiko in kadre. [Tiskana izd.]. 2022, vol. 55, iss. 2, str. 142-159.  
kategorija: 1A3 (Z, A', A1/2)

- BERNIK, Igor, PRISLAN, Kaja, MIHELIČ, Anže. Country life in the digital era : comparison of technology use and cybercrime victimization between residents of rural and urban environments in Slovenia. Sustainability. 2022, vol. 14, iss. 21, str. 1-16, ilustr. ISSN 2071-1050. <https://www.mdpi.com/2071-1050/14/21/14487/htm>, DOI: 10.3390/su142114487.  
kategorija: 1A1 (Z, A'', A', A1/2)

## 1.08 Objavljeni znanstveni prispevek na konferenci:

- GRILC, Špela, PRISLAN, Kaja, MIHELIČ, Anže. Teorije in modeli v vedenjskih informacijskovarnostnih raziskavah = Theories and models in behavioral information security research. Psihološka obzorja : slovenska znanstveno-strokovna psihološka revija. [Spletna izd.]. 15. dec. 2022, letn. 31, str. 602-622, ilustr. ISSN 2350-5141. [http://psiholoska-obzorja.si/arhiv\\_clanki/2022/Grilc\\_et\\_al.pdf](http://psiholoska-obzorja.si/arhiv_clanki/2022/Grilc_et_al.pdf), DOI: 10.20419/2022.31.568.  
kategorija: 1A4 (Z)

## 1.08 Objavljeni znanstveni prispevek na konferenci:

- HOVNIK, Andraž, JELOVČAN, Luka, MIHELIČ, Anže, VRHOVEC, Simon. Exploring the associations between website trustworthiness, cookie consent and taking an online survey. V: MEGÍAS, David (ur.), DI PIETRO, Roberto (ur.), GARCIA-ALFARO, Joaquin (ur.). EICC '2022 : proceedings of the 2022 European Interdisciplinary Cybersecurity Conference : June 15-16, Barcelona, Spain (hybrid). New York (NY): Association for Computing Machinery, 2022. 1 spletni vir (1 datoteka pdf (2 str.)), ilustr. ISBN 978-1-4503-9603-5. <https://dl.acm.org/doi/10.1145/3528580.3532991>. [COBISS.SI-ID 116350211]  
kategorija: 4C (Z)

## 1.10 Objavljeni povzetek znanstvenega prispevka na konferenci (vabljeno predavanje):

- VRHOVEC, Simon. e@ser - secure use of smart devices among the elderly : towards education-based cybercrime prevention. V: Abstracts Proceedings - KM Conference 2022 - Ljubljana, Slovenia : a publication of the International Institute for Applied Knowledge Management. [Ljubljana: International Institute for Applied Knowledge Management, 2022]. Str. 10. [https://www.iiakm.org/conference/proceedings/KM2022\\_RefereedProceedingsAbstracts.pdf](https://www.iiakm.org/conference/proceedings/KM2022_RefereedProceedingsAbstracts.pdf). [COBISS.SI-ID 113808387]  
kategorija: SU (S)

# Objave 2022

## 1.12 Objavljeni povzetek znanstvenega prispevka na konferenci:

- KERZNAR OSOLNIK, Sanja, BERNIK, Igor, PRISLAN, Kaja, MIHELIČ, Anže, VRHOVEC, Simon. Izpostavljenost starejših uporabnikov pametnih naprav kibernetiskim grožnjam : stanovalci domov za starejše. V: MODIC, Maja (ur.), et al. 23. dnevi varstvoslovja, Laško, 8. in 9. junij 2022 : zbornik povzetkov. 1. izd. Maribor: Univerzitetna založba Maribor, 2022. Str. 33. ISBN 978-961-286-603-7. <https://press.um.si/index.php/ump/catalog/book/683>, <https://dk.um.si/IzpisGradiva.php?id=81802>. [COBISS.SI-ID 112174595]  
kategorija: SU (S)
- VOGRINEC, Primož, VRHOVEC, Simon, MARKELJ, Blaž. Determining the level of information security awareness with the Human Aspects of Information Security Questionnaire (HAIS-Q) : a modern industry perspective. V: CECIIS 2022. [Varaždin: Faculty of organization and informaticy, University of Zagreb. 2022, 1 spletni vir. <https://submissions.foi.hr/index.php/ceciis/article/view/213>. [COBISS.SI-ID 136309251]  
kategorija: SU (S)
- MIHELIČ, Anže, ŽVANUT, Boštjan, VRHOVEC, Simon. Pametne naprave v pomoč starejšim = Smart devices to help the elderly. V: MARČUN, Tomaž (ur.), DORNIK, Ema (ur.). Odločno digitalno za več zdravja : Kongres MI'2022 : zbornik prispevkov in povzetkov : Ljubljana, november 2022. Ljubljana: SDMI, 2022. Str. 74. [COBISS.SI-ID 132443395]  
kategorija: SU (S)

## 1.20 Predgovor, uvodnik, spremna beseda:

- CAVIGLIONE, Luca, WENDZEL, Steffen, VRHOVEC, Simon, MILEVA, Aleksandra. Security and privacy issues of home globalization : guest editors' introduction. IEEE security & privacy : building confidence in a networked world. [Print ed.]. Jan./Feb. 2022, vol. 20, iss. 1, str. 10-11. ISSN 1540-7993. DOI: 10.1109/MSEC.2021.3127372. [COBISS.SI-ID 95318019]  
kategorija: SU (S)
- VRHOVEC, Simon, GENGE, Bela, JAATUN, Martin Gilje. Guest editorial : special issue on interdisciplinary cybersecurity. Journal of wireless mobile networks, ubiquitous computing and dependable applications : JOWUA. Sep. 2022, vol. 13, no. 3, str. 1-3, ilustr. ISSN 2093-5374. DOI: 10.22667/JOWUA.2022.09.30.001. [COBISS.SI-ID 126043395]  
kategorija: SU (S)

## 2.20 Zaključena znanstvena zbirka raziskovalnih podatkov:

- FUJS, Damjan, VRHOVEC, Simon. Anketa o motivaciji za varovanje na spletnih socialnih omrežjih, 2019 : študenti Univerze v Mariboru. Ljubljana: Fakulteta za družbene vede, Arhiv družboslovnih podatkov, 2022. 1 spletni vir. <https://www.adp.fdv.uni-lj.si/opisi/varso19/>, DOI: 10.17898/ADP\_VARSO19\_V1. [COBISS.SI-ID 103822083]  
kategorija: 2H (Z)
- MIHELIČ, Anže, VRHOVEC, Simon. Anketa o motivaciji za zaščito pred kibernetiskimi napadi v visokem šolstvu, 2017 : raziskovalci in pedagogi na slovenskih univerzah. Ljubljana: Fakulteta za družbene vede, Arhiv družboslovnih podatkov, 2022. 1 spletni vir. <https://www.adp.fdv.uni-lj.si/opisi/evara17/>. [COBISS.SI-ID 120658691]  
kategorija: 2H (Z)

## Projekti in sodelovanje med katedrami, inštitucijami in gospodarstvom 2022

### Temeljni raziskovalni projekti:

- MIG@B | Modeliranje mednarodnih migrantskih tokov na Balkanu
- e@ser | Varna uporaba pametnih naprav med starejšimi: Nasproti na izobraževanju temelječi prevenciji kibernetiske kriminalitete

### Drugi projekti:

- Zelen in odporen prehod za varno in uspešno družbo
- Notranji raziskovalni projekti
- Človeški dejavniki v kibernetski varnosti, agilne metode in inženiring varnosti softvera ter obvladovanje organizacijskih sprememb

### Podpisani sporazumi o sodelovanju:

AmCham Slovenija (skrbnik sporazuma: Blaž Markelj)

SmartCom (skrbnik sporazuma: Blaž Markelj)

GenLan (skrbnik sporazuma: Blaž Markelj)

Hit d.d. Nova Gorica (skrbnik sporazuma: Blaž Markelj)

ISACA (skrbnik sporazuma: Blaž Markelj)

### Sodelovanje z gospodarstvom (kombinacija akademskega in gospodarskega sveta):

#### **Konferenca Informacijska varnost zaupanje v človeka in tehnologijo 2022**

Sodelujoče zunanje organizacije: A1, AmCham Slovenija, Triglav, Siemens, Abakus, SmartCom, GenaLan, Telemach, Telekom Slovenije, OurSpace Appliances, Nil, RealSecurity, Informatika, AstecPro, Check Point, MasterCard, GV Založba, Toper, Go-Lix, Skupina Luna/TBWA.

#### **Na konferenci izvedena karierna tržnica za študente FVV.**

### Sodelovanje:

UL, FRI – vključitev v projekt

UL, FDV – vključitev v projekt

Soorganizacija FVV CJS CEE

NAKVIS, ASHE, ...

... in drugo sodelovanje; mentorstva, članstva v komisijah, ...