Sasa Mrdovic

https://people.etf.unsa.ba/~smrdovic/ | https://www.linkedin.com/in/sasa-mrdovic-3841696/

WORK EXPERIENCE

01/05/2000 – CURRENT
PROFESSOR, ASSOCIATE PROFESSOR, ASSISTANT PROFESSOR, SENIOR TEACHING ASSISTANT, TEACHING ASSISTANT – FACULTY OF ELECTRICAL ENGINEERING, UNIVERSITY OF SARAJEVO

Teaching and research in the area of computer networks and security.

Sarajevo, Bosnia and Herzegovina

01/05/2000 – CURRENT
COURT EXPERT WITNESS FOR ICT – VARIOUS COURTS AND PROSECUTORS OFFICES IN B&H

Forensic analysis of digital devices and computer networks.

Bosnia and Herzegovina

01/07/2015 – 01/11/2016
MANAGER – UNIVERSITY ICT CENTER, UNIVERSITY OF SARAJEVO

Manage main computer and communication center of university.
Design of university ICT systems and integration of university ICT infrastructure.

Sarajevo, Bosnia and Herzegovina

01/05/2003 – 01/01/2005
NETWORK ADMINSTRATOR – FACULTY OF ELECTRICAL ENGINEERING, UNIVERSITY OF SARAJEVO

Administer faculty computer network of around 100 computers.
Design of faculty ICT systems and integration of faculty ICT infrastructure.

Sarajevo, Bosnia and Herzegovina

01/05/2002 – 01/05/2003
SOFTWARE ENGINEER AND NETWORK ADMINISTRATOR – COMMISSION FOR REAL PROPERTY CLAIMS OF DISPLACED PERSONS AND REFUGEES

Software development.
Design of Commission ICT systems and integration of Commission ICT infrastructure.

Sarajevo, Bosnia and Herzegovina

01/05/2000 – 01/05/2002
NETWORK AND HARDWARE DEPARTMENT HEAD – PING

Manage department for computer networks and hardware of a company that designed and integrated ICT infrastructure for its numerous clients.

Sarajevo, Bosnia and Herzegovina

01/10/1995 – 01/05/2000
SOFTWARE ENGINEER – SIEMENS / CSE

Full development cycle of applications for resource management of power companies.

Minneapolis, MN, United States

EDUCATION AND TRAINING

01/10/2004 – 01/05/2009 – Sarajevo, Bosnia and Herzegovina
PHD TECHNICAL SCIENCES – University of Sarajevo

Digital data security - Intrusion detection systems (IDS)

EQF level 8

01/10/2001 – 01/09/2004 – Sarajevo, Bosnia and Herzegovina
MASTER OF SCIENCE – University of Sarajevo

Cryptography - digital signatures, public key infrastructure (PKI).

EQF level 7

01/10/1985 – 01/06/1991 – Sarajevo, Bosnia and Herzegovina
GRADUATED ENGINEER – Faculty of Electrical Engineering, University of Sarajevo

EQF level 6

LANGUAGE SKILLS

Mother tongue(s):   **BOSNIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Publications

Selected publications:
Books:
Sasa Mrdovic "Računarske mreže" (eng. Computer Networks), Elektrotehnicki fakultet Univerziteta u Sarajevu, ISBN: 978-9958-629-83-9, 2020.
Sasa Mrdovic "Praktikum sigurnosti racunarskih sistema" (eng. Computer Systems Security Labs), Elektrotehnicki fakultet Univerziteta u Sarajevu, ISBN: 978-9958-629-72-3, 2018.
Sasa Mrdovic "Sigurnost racunarskih sistema" (eng. Computer Systems Security) ", Elektrothenicki fakultet Univerziteta u Sarajevu, ISBN: 978-9958-629-57-0, 2014
Papers:
S. Mrdovic, "IoT Forensics," In: Avoine G., Hernandez-Castro J. (eds) Security of Ubiquitous Computing Systems. Springer, Cham. 2021., doi: 10.1007/978-3-030-10591-4_13
Hadzovic, S.; Mrdovic, S.; Radonjic, M. Identification of IoT Actors. Sensors 2021, 21, 2093. https://doi.org/10.3390/s21062093
A. Huseinović, S. Mrdović, K. Bicakci and S. Uludag, "A Survey of Denial-of-Service Attacks and Solutions in the Smart Grid," in IEEE Access, vol. 8, pp. 177447-177470, 2020, doi: 10.1109/ACCESS.2020.3026923.
A. Kamisalic, M. Turkanovic, S. Mrdovic, M. Hericko, "A Preliminary Review of Blockchain-based Solutions in Higher Education", In: Uden L., Liberona D., Sanchez G., Rodríguez-González S. (eds) Learning Technology for Education Challenges. LTEC 2019. Communications in Computer and Information Science, vol 1011. Springer, Cham, 2019.
A. Butkovica, S. Mrdovic, S. Uludag, A. Tanovic, "Geographic Profiling for serial cybercrime investigation", Digital Investigation, 2018, ISSN 1742-2876.
D. Komosny, S. Mrdovic, P. Ilko, M. Grejtak, O. Pospiichal, "Testing Internet applications and services using PlanetLab", Computer Standards & Interfaces, 2017, vol. 35, no. 1, p. 33-38. ISSN: 0920-5489.

A. Huseinovic, Y. Korkmaz, H. Bisgin, S. Mrdović and S. Uludag, "PMU Spoof Detection via Image Classification Methodology against Repeated Value Attacks by using Deep Learning," 2022 XXVIII International Conference on Information, Communication and Automation Technologies (ICAT), 2022, pp. 1-6, doi: 10.1109/ICAT54566.2022.9811128.

S. Becirovic, S. Mrdovic, "Manual IoT Forensics of a Samsung Gear S3 Frontier Smartwatch", 27th International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 2019.

H. Sinanović, S. Mrdovic, "Analysis of Mirai Malicious Software", 25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 2017.

S. Mrdovic, B. Drazenovic "KIDS – Keyed Intrusion Detection System", Seventh Conference on Detection of Intrusions and Malware & Vulnerability Assessment, DIMVA 2010, 2010

S. Mrdovic, A. Huseinovic, E. Zajko "Combining Static and Live Digital Forensic Analysis in Virtual Environment", XXII International Symposium on Information, Communication and Automation Technologies - ICAT 2009, 2009

H. Šemić, S. Mrdovic, "IoT honeypot: a multi-component solution for handling manual and Mirai-based attacks", 25th Telecommunications Forum, TELFOR 2017, 2017.

PROJECTS

Projects

Selected and most recent projects:
Energy Policy Activity (EPA) Project, USAID
Forensic laboratory accreditation, BATA
Development of national cyber security strategy for B&H, OSCE Cryptacus, EU COST
ENABLE-BiH (Enhancing and Advancing Basic Learning and Education in Bosnia and Herzegovina), Save the Children/USAID
Preparation of a data security policy for Supporting the Population and Housing Census (PHC), Agency for Statistics B&H / Delegation of the European Union to B&H
Development of High school ICT curriculum, Cantonal Ministry of Education, Sarajevo
Preparation of PKI project for issuance of qualified electronic certificates, BH Post
Security analysis of user mobility in triple-play systems, Ministry of Education, FBiH
PKI design, Central Election Commission BH
Penetration test, Central Bank of BH
PIMIS (Public Investment Management Information System), Ministry of Finance and Treasury BH

ORGANISATIONAL SKILLS

Organisational skills

Leadership (manager of ICT center, led MS Windows localization to Bosnian), team management (was department head), conference organization (was general chair)

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good ability to communicate and work with different people and organizations gained through different positions held with different employers

JOB-RELATED SKILLS

Job-related skills

Long time ICT experience, excellent theoretical background (university professor) tested in practice (number of real world projects).

CERTIFICATIONS

Certifications

CISSP (Certified Information System Security Professional)