

LISTA DE LUCRĂRI

A. Teza de doctorat:

„Contribuții privind dezvoltarea și utilizarea metodelor biometrice pentru autentificare în sisteme și rețele de calculatoare”, Academia Tehnică Militară, Apr. 2014.

Conducător de doctorat: prof.univ.dr.ing. Victor-Valeriu PATRICIU.

B. Cărți și capitole în cărți:

CEZAR PLEȘCA, ȘTEFAN-ADRIAN TOMA, **STELIAN SPÎNU** – *Tehnici de watermarking pentru multimedia*, Editura Academiei Tehnice Militare, București, 2017, ISBN 978-973-640-259-3.

STELIAN SPÎNU – *Recunoașterea biometrică a persoanelor*, Editura Academiei Tehnice Militare, București, 2016, ISBN 978-973-640-249-4.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU**, CEZAR PLEȘCA – *Fingerprint Orientation Image Estimation in the Frequency Domain*, In K. Elleithy and T. Sobh (Eds.), “New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering”, pp. 439-443, Springer International Publishing, Switzerland, 2015, ISBN 978-3-319-06763-6, (Lecture Notes in Electrical Engineering, Vol. 312, ISSN 1876-1100, serie indexată în **ISI Proceedings**, EI-Compendex, SCOPUS, MetaPress, Springerlink), DOI: [10.1007/978-3-319-06764-3_55](https://doi.org/10.1007/978-3-319-06764-3_55).

C. Articole / studii în extenso, publicate în reviste din fluxul științific internațional principal:

STELIAN SPÎNU – *Vulnerabilities at the Sensor Level in Biometric Systems: A Review*, MTA Review, Vol. XXVI, No. 1, pp. 19-26, Mar. 2016, ISSN 1843-3391 (revistă cotată **B+**).

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *Fingerprint Ridge Frequency Estimation in the Fourier Domain*, Advances in Electrical and Computer Engineering, Vol. 14, No. 4, pp. 95-98, Nov. 2014, ISSN 1582-7445 (revistă cotată **ISI**), DOI: [10.4316/AECE.2014.04014](https://doi.org/10.4316/AECE.2014.04014).

ADRIAN ANECI, **STELIAN SPÎNU** – *Low-Cost Hand Vein Recognition Prototype*, MTA Review, Vol. XXIII, No. 2, pp. 141-152, Jun. 2013, ISSN 1843-3391 (revistă cotată **B+**).

GRIGORE JELER, **STELIAN SPÎNU** – *A Comparative Study Related to the RBF Neural Network Training*, MTA Review, Vol. XXIII, No. 2, pp. 95-106, Jun. 2013, ISSN 1843-3391 (revistă cotată **B+**).

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU**, CONSTANTIN-IULIAN VIZITIU – *FFT Based Method for Directional Field Estimation in Fingerprint Images*, MTA Review, Vol. XXII, No. 2, pp. 107-114, Jun. 2012, ISSN 1843-3391 (revistă cotată **B+**).

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *Orientation Image Estimation for Fingerprints by Gradient and FFT Based Methods*, MTA Review, Vol. XXI, No. 4, pp. 237-246, Dec. 2011, ISSN 1843-3391 (revistă cotată **B+**).

CONSTANTIN-IULIAN VIZITIU, LUCIAN ANTON, **STELIAN SPÎNU** – *High-Performance HRR ATR System Using GANN Concept*, MTA Review, Vol. XXI, No. 1, pp. 19-30, Mar. 2011, ISSN 1843-3391 (revistă cotată **B+**).

CONSTANTIN-IULIAN VIZITIU, PETRICĂ CIOTÎRNAE, **STELIAN SPÎNU** – *A Full-Genetic Approach to Train RBF Neural Networks*, MTA Review, Vol. XX, No. 3, pp. 177-194, Sep. 2010, ISSN 1843-3391 (revistă cotate **B+**).

CONSTANTIN-IULIAN VIZITIU, IULIAN RÎNCU, **STELIAN SPÎNU** – *Efficient FPGA Hardware Implementation of RBF Neural Networks Using a Genetic Algorithm for Center Selection*, MTA Review, Vol. XIX, No. 4, pp. 449-458, Dec. 2009, ISSN 1843-3391.

CONSTANTIN-IULIAN VIZITIU, **STELIAN SPÎNU**, GRIGORE JELER – *More Efficient ATR System Using a New Neural Classification Chain*, MTA Review, Vol. XIX, No. 3, pp. 347-358, Sep. 2009, ISSN 1843-3391.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU**, ION BICA – *Estimation of Local Ridge Orientation in Fingerprint Recognition Systems: A Review*, MTA Review, Year XV, No. 2, pp. 37-44, 2005, ISSN 1843-3391.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *An Overview of Biometric Authentication*, Revista ATM, Anul XIV, Nr. 3, pg. 19-28, 2004, ISSN 1453-259X.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *An Introduction to User Authentication Techniques: Passwords, Tokens, and Biometrics*, Revista ATM, Anul XIV, Nr. 1, pg. 23-34, 2004, ISSN 1453-259X.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *An Overview of Diffie-Hellman Key Agreement Protocols in Various Groups*, Revista ATM, Anul XIII, Nr. 3, pg. 31-44, 2003, ISSN 1453-259X.

STELIAN SPÎNU – *Performance Analysis of Linear Hashing with Uncontrolled Split*, Revista ATM, Anul XIII, Nr. 1, pg. 91-102, 2003, ISSN 1453-259X.

STELIAN SPÎNU – *Analysis of Collision Resolution by Open Addressing Method*, Revista ATM, Anul XII, Nr. 3, pg. 37-48, 2002, ISSN 1453-259X.

D. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate:

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU**, CEZAR PLEȘCA – *Fingerprint Orientation Image Estimation in the Frequency Domain*, Proceedings of the 9th Annual International Joint Conferences on Computer, Information, Systems Sciences, and Engineering, CISSE 2013, Online E-Conference, Dec. 12-14, 2013.

ADRIAN ANECI, **STELIAN SPÎNU** – *Vein Pattern in Biometric Authentication*, Proceedings of the 6th International Conference on Security for Information Technology and Communications, SECITC '13, pp. 113-120, Bucharest, Romania, Jun. 25-26, 2013, ISSN 2285-1798.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *Approaches to Fingerprint Image Segmentation*, Proceedings of the 31st Internationally Attended Scientific Conference of the Military Technical Academy "Modern Technologies in the 21st Century", pp. 12.152-12.157, Bucharest, Romania, Nov. 3-4, 2005, ISBN 973-640-074-3.

STELIAN SPÎNU – *Performance Comparison between Linear Hashing with Controlled Split and Partitioning Hashing Techniques*, Proceedings of the 30th Internationally Attended Scientific Conference of the Military Technical Academy "Modern Technologies in the 21st Century", pp. 139-148, Bucharest, Romania, Nov. 6-7, 2003, ISBN 973-640-012-3.

VICTOR-VALERIU PATRICIU, **STELIAN SPÎNU** – *Performance Comparison between Extendible Hashing and Partitioning Hashing Techniques*, Proceedings of the 30th Internationally Attended Scientific Conference of the Military Technical Academy “Modern Technologies in the 21st Century”, pp. 129-138, Bucharest, Romania, Nov. 6-7, 2003, ISBN 973-640-012-3.

STELIAN SPÎNU – *Performance Analysis of Hash Functions Created by Division Method and Multiplication Method*, Proceedings of the International Conference “Communications 2002”, pp. 182-187, Bucharest, Romania, Dec. 5-7, 2002, ISBN 973-8290-67-8.

STELIAN SPÎNU – *Costul căutării unei înregistrări de date în cazul diferitelor tipuri de organizări de fișiere*, Proceedings of the International Conference on Naval and Marine Education “Romanian Naval Academy’s 130th Anniversary”, pg. 56-64, Constanta, Romania, Nov. 14-16, 2002, ISBN 973-8303-16-9.

STELIAN SPÎNU – *Avantajele și inconvenientele indexurilor ordonate uninivel pentru fișierele de date*, Proceedings of the International Conference on Naval and Marine Education “Romanian Naval Academy’s 130th Anniversary”, pg. 47-55, Constanta, Romania, Nov. 14-16, 2002, ISBN 973-8303-16-9.