

Universitatea: *Academia Tehnică Militară „Ferdinand I”*

Facultatea:

Departament:

Col.prof.dr.ing. Bica Ion

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„*Protocoloale și instrumente pentru confidențialitatea și autenticitatea documentelor în rețelele de calculatoare*”, Academia Tehnică Militară, 2004

B. Cărți și capitole în cărți publicate

1. I. Bica and M. Togan, “*Protocoloale de Securitate pentru Rețele de Calculatoare*,” Editura Univers Științific, ISBN 978-973-1944-68-5, 162 pg., 2015.
2. I. Bica, I. Livadariu, and G. Popescu, “*Rețele Private Virtuale*,” Editura Univers Științific, ISBN 978-973-1944-10-4, 153 pg., 2010.
3. V.-V. Patriciu, M. Ene-Pietroșanu, I. Bica, and I. Priescu, “*Semnături Electronice și Securitate Informatică*,” Editura BIC All, ISBN 973-571-564-3, 607 pg., 2006.
4. I. Bica, “*Securitatea Documentelor Electronice în Rețele de Calculatoare*,” Editura Academiei Tehnice Militare, ISBN 973-640-092-1, 206 pg., 2005.
5. V.-V. Patriciu, M. Ene-Pietroșanu, I. Bica, C. Văduva, and N. Voicu, “*Securitatea Comerțului Electronic*,” Editura All, ISBN 973-571-325-X, 422 pg., 2001.
6. V.-V. Patriciu, M. Ene-Pietroșanu, I. Bica, and C. Cristea, “*Securitatea Informatică în UNIX și Internet*,” Editura Tehnică, ISBN 973-31-1185-6, 558 pg., 1998.

În calitate de editor:

1. I. Bica and R. Reyhanitabar, Eds., “*Innovative Security Solutions for Information Technology and Communications*,” Lecture Notes in Computer Science, Springer International Publishing, ISBN 978-3-319-47237-9, 2016.
2. I. Bica, D. Naccache, and E. Simion, Eds., “*Innovative Security Solutions for Information Technology and Communications*,” Lecture Notes in Computer Science, Springer International Publishing, ISBN 978-3-319-27178-1, 2015.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- Reviste

1. D. Ungureanu, S.-A. Toma, I.-D. Filip, B.-C. Mocanu, I. Aciobăniței, B. Marghescu, T. Bălan, M. Dascălu, I. Bica, and F. Pop, “*ODIN112–AI-Assisted Emergency Services in Romania*,” Applied Sciences, vol. 13, no. 1, p. 639, Jan. 2023.

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2. B.-C. Mocanu, I.-D. Filip, R.-D. Ungureanu, C. Negru, M. Dascălu, S.-A. Toma, T.-C. Bălan, I. Bica, and F. Pop, “*ODIN IVR-Interactive Solution for Emergency Calls Handling*,” *Applied Sciences*, vol. 12, no. 21, p. 10844, Oct. 2022.
3. I. Apostol, M. Preda, C. Nila, and I. Bica, “*IoT Botnet Anomaly Detection Using Unsupervised Deep Learning*,” *Electronics*, vol. 10, no. 16, p. 1876, Aug. 2021.
4. Ș.-C. Arseni, B.-C. Chifor, M. Coca, M. Medvei, I. Bica, and I. Matei, “*RESFIT: A Reputation and Security Monitoring Platform for IoT Applications*,” *Electronics*, vol. 10, no. 15, p. 1840, Jul. 2021.
5. C. Lupascu, A. Lupascu, and I. Bica, “*DLT Based Authentication Framework for Industrial IoT Devices*,” *Sensors*, vol. 20, no. 9, p. 2621, May 2020.
6. D. Cretoiu, S. Roatesi, I. Bica, C. Plesca, A. Stefan, O. Bajenaru, C. E. Condrat, and S. M. Cretoiu, “*Simulation and Modeling of Telocytes Behavior in Signaling and Intercellular Communication Processes*,” *International Journal of Molecular Sciences*, vol. 21, no. 7, p. 2615, Apr. 2020.
7. I. Bica, B.-C. Chifor, Ștefan-C. Arseni, and I. Matei, “*Multi-Layer IoT Security Framework for Ambient Intelligence Environments*,” *Sensors*, vol. 19, no. 18, p. 4038, Sep. 2019.
8. A. Pauna, I. Bica, F. Pop, and A. Castiglione, “*On the rewards of self-adaptive IoT honeypots*,” *Annals of Telecommunications*, 2019.
11. B.-C. Chifor, I. Bica, V.-V. Patriciu, and F. Pop, “*A security authorization scheme for smart home Internet of Things devices*,” *Future Generation Computer Systems*, vol. 86, pp. 740-749, 2018.
12. D. Dinu, M. Togan, and I. Bica, “*On DHCP security*,” *Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science*, vol. 18, pp. 403-412, 2017.
13. R. Velea, C. Ciobanu, L. Margarit, and I. Bica, “*Network traffic anomaly detection using shallow packet inspection and parallel k-means data clustering*,” *Studies in Informatics and Control*, vol. 26, no. 4, pp. 387-396, 2017.
14. B.-C. Chifor, I. Bica, and V.-V. Patriciu, “*Sensing service architecture for smart cities using social network platforms*,” *Soft Computing*, vol. 21, no. 16, pp. 4513-4522, 2016.
15. A.-V. Vladuta, M. L. Pura, and I. Bica, “*MAC protocol for data gathering in wireless sensor networks with the aid of unmanned aerial vehicles*,” *Advances in Electrical and Computer Engineering*, vol. 16, no. 2, pp. 51-56, 2016.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. A. Vlădescu and I. Bica, “*Securing IoT Networks through Moving Target Defence*,” 2025 25th International Conference on Control Systems and Computer Science (CSCS), pp. 552–557, May 2025.
2. B. Marghescu, Ș.-A. Toma, L. Morogan, and I. Bica, “*Speech Emotion Recognition for Emergency Services*,” 2023 International Conference on Speech Technology and Human-Computer Dialogue (SpeD), 2023.
3. C. Rafailă, F. Gurzău, C. Grumăzescu, and I. Bica, “*MTAFinder - Unified OSINT platform for efficient data gathering*,” 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2023.
4. R. Stoleriu, A. Puncioiu, and I. Bica, “*Cyber Attacks Detection Using Open Source ELK Stack*,” 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Jul. 2021.
5. I. Bica, R. L. Unc, and Ștefan Țurcanu, “*Virtualization and Automation for Cybersecurity Training and Experimentation*,” 13th International Conference on Security for Information Technology and Communications (SECITC), Bucharest, Romania, 2020.

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6. V. Radu, V. Ilie, and I. Bica, "Applying Parallel and Distributed Computing Curriculum to Cyber Security Courses," 2020 IEEE/ACM Workshop on Education for High-Performance Computing (EduHPC), 2020.
7. M. Preda, I. Bica, and V.-V. Patriciu, "Internet of Things Traffic Characterization using flow and packet analysis," 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2020.
8. I. Bica, B.-C. Chifor, S.-C. Arseni, and I. Matei, "Reputation-based security framework for Internet of Things," 12th International Conference on Security for Information Technology and Communications (SECITC), Bucharest, Romania, 2019.
9. B.-C. Chifor, S.-C. Arseni, I. Matei, and I. Bica, "Security-Oriented Framework for Internet of Things Smart-Home Applications," 2019 22nd International Conference on Control Systems and Computer Science (CSCS), 2019.
10. V.-A. Vladuta, I. Matei, and I. Bica, "Data Gathering Optimization in Wireless Sensor Networks Using Unmanned Aerial Vehicles," 2019 22nd International Conference on Control Systems and Computer Science (CSCS), 2019.
11. V.-A. Vladuta, I. Bica, and V.-V. Patriciu, "Energy Efficient Trust-based Security Mechanism for Wireless Sensors and Unmanned Aerial Vehicle," 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitești, Romania, 2019.
12. A. Pauna, A.-C. Iacob, and I. Bica, "QRASSH - A Self-Adaptive SSH Honeypot Driven by Q-Learning," 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018.
13. B.-C. Chifor, I. Bica, and V.-V. Patriciu, "Mitigating DoS attacks in publish-subscribe IoT networks," 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Târgoviște, Romania, 2017.
14. A.-V. Vladuta, I. Bica, V.-V. Patriciu, and F. Pop, "Reliable Data Collection for Wireless Sensor Networks Using Unmanned Aerial Vehicles," 12th International Conference on Green, Pervasive, and Cloud Computing (GPC), Cetara, Italy, 2017.
15. B.-C. Chifor, I. Bica, and V.-V. Patriciu, "A Participatory Verification security scheme for the Internet of Things," 2016 International Conference on Communications (COMM), Bucharest, Romania, 2016.
16. A.-V. Vladuta, C. Grumazescu, I. Bica, and V. Patriciu, "Energy considerations for data gathering protocol in wireless sensor networks using unmanned aerial vehicles," 2016 International Conference on Communications (COMM), Bucharest, Romania, 2016.
17. R. Velea, F. Gurzau, L. Margarit, I. Bica, and V.-V. Patriciu, "Performance of parallel ChaCha20 stream cipher," 2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timișoara, Romania, 2016.
18. M.-A. Velciu, V.-V. Patriciu, and I. Bica, "A Bio-cryptographic framework for securing mobile devices content," 2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timișoara, Romania, 2016.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

Agencia Română de Asigurare a Calității în Învățământul Superior

1. I. Tiță, L. Corău, C. Grumăzescu, and I. Bica, "*IP Geolocation Methods and Challenges*", Journal of Military Technology, Vol. 8, No. 2, Dec. 2025

- Selecție cu maximum 20 lucrări în volume de conferințe

1. I. Bica, and Ș. Cantaragiu, "*Integrated training system for the cyber battlefield*," The 21st International Scientific Conference STRATEGIES XXI "Technologies, military applications, simulation and resources", 2025.

E. Brevete obținute în întreaga activitate

1.

Data: 30.03.2026

Semnătura:

