

LIST OF SCIENTIFIC WORKS

Assoc.Prof. Crina Anina Bejan, PhD.

A. Doctoral thesis

“Optimizarea și securitatea sistemelor de E-Business “

Universitatea Babeș – Bolyai Cluj – Napoca, anul 2016
Facultatea de Științe Economice și Gestiunea Afacerilor,
Domeniul: Cibernetică și Statistică
Coordonator științific: Prof. Univ. Dr. Nicolae Tomai

B. Books and chapters in books

1. Dana Persa, Claudiu Persa, Adina Ploscar, Tiberiu Socaciu, **Crina Rațiu**, Antoanela Naaji (coord.), “ Teste pentru programare in C si baze de date I“
Editura "Vasile Goldiș" University Press - Arad, 2009, 180 pagini, ISBN 978-973-664-326-2
2. Dana Persa, Claudiu Persa, Adina Ploscar, Tiberiu Socaciu, **Crina Rațiu**, Antoanela Naaji (coord.), “ Teste pentru programare in C si baze de date II“
Editura "Vasile Goldiș" University Press - Arad, 2010, 167 pagini, ISBN 978-973-664-411-5
3. Crina Anina Bejan, Dominic Bucerzan, and Mihaela Daciana Craciun. "Perspectives of Cryptocurrency Price Prediction." Education, Research and Business Technologies: Proceedings of 21st International Conference on Informatics in Economy (IE 2022). Vol. 321. Springer Nature, 2023.

C. Full-length articles/studies published in international scientific magazines

a. Scientific articles published in specialized journals rated by ISI

1. **Bejan Crina Anina**, Bucerzan Dominic, Crăciun Mihaela Daciana „*Bitcoin price evolution versus energy consumption; trend analysis*”, 2022, Applied Economics, Routledge, doi: 10.1080/00036846.2022.2097194
2. D. Bucerzan, **C. Rațiu**, “*Image Processing with Android Steganography*“
Soft Computing Application – Advances in Intelligent Systems and Computing,
Springer International Publishing, Proceedings of 6th International Workshop on Soft Computing Applications (SOFA 2014), Volume 1, eBook ISBN 978-3-319-18296-4, ISBN 978-3-319-27178-1, DOI 10.1007/978-3-319-27179-8, pag. 27-36, Publicata in 2015
<http://www.springer.com/gp/book/9783319182957>
3. D. Bucerzan, **C. Rațiu**, “*Contributions to Steganographic Techniques on Mobile Devices*“
Innovative Security Solutions for Information Technology and Communications,
Springer International Publishing, Volume 9522 of the series Lecture Notes in Computer Science, pag. 242-252, eBook ISBN, 978-3-319-27179-8, ISBN 978-3-319-27178-1, DOI 10.1007/978-3-319-27179, pag.242-253, Publicata in 2015
http://link.springer.com/chapter/10.1007/978-3-319-27179-8_17

4. **C. Rațiu**, D. Bucerzan, M.J. Manolescu, “*SmartSteg: A New Android Based Steganography Application*”
International Journal of Computers Communications & Control, ISSN 1841-9836,
E-ISSN 1841-9844, Vol. 8(5):p. 681-688, Publicata in 2013
WOS:000324844700004 , Factor de impact **IF=0.694**
DOI: <http://dx.doi.org/10.15837/ijccc.2013.5>
<http://univagora.ro/jour/index.php/ijccc/article/view/642>
5. M. Crăciun, **C. Rațiu**, D. Bucerzan, A. Manolescu “*Actuality of Bankruptcy Prediction Models Used in Decision Support System*”
International Journal of Computers Communication & Control, ISSN 1841-9836,
E-ISSN 1841-9844, Vol. 8(3), pag. 375-383, Publicata in 2013
WOS:000319952400003, Factor de impact **IF=0,694**
DOI: <http://dx.doi.org/10.15837/ijccc.2013.3.464>
<http://univagora.ro/jour/index.php/ijccc/article/view/464>
6. **C. Rațiu**, D. Bucerzan, M. Crăciun, “*Analysis of Bankruptcy Prediction Model in the Present Economic Situation*”
Soft Computing Applications, **Springer Berlin Heidelberg**, Proceedings of the 5th International Workshop Soft Computing Applications, On line ISBN 978-3-642-33941-7, ISBN 978-3-642-33940-0, DOI 10.1007/978-3-642-33941-7_55, pag. 625-635, 2013
WOS:000314077300055, http://link.springer.com/chapter/10.1007/978-3-642-33941-7_55
7. **C. Rațiu**, D. Bucerzan, M. Crăciun, “*Contribution to Watermarking Techniques*”
Soft Computing Applications, **Springer Berlin Heidelberg**, Proceedings of the 5th International Workshop Soft Computing Applications, On line ISBN 978-3-642-33941-7, ISBN 978-3-642-33940-0, DOI 10.1007/978-3-642-33941-7_37, pag. 403-410, 2013
WOS:000314077300037 http://link.springer.com/chapter/10.1007/978-3-642-33941-7_37
8. D. Bucerzan, M. Crăciun, V. Chiș, **C. Rațiu**, “*Stream Ciphers Analysis Methods*”,
International Journal of Computers Communications & Control, ISSN 1841-9836,
E-ISSN 1841-9844, Vol. 5(4):pag. 483-489, 2010, **Factor de impact IF=0,65**
WOS:000314077300055 http://www.dzitac.ro/files/ioan/IJCCC_contents_2006_2011.pdf
9. Bucerzan D., **Bejan C.A.** (2021) “Blockchain. Today Applicability and Implications”. In: Balas V., Jain L., Balas M., Shahbazova S. (eds) Soft Computing Applications. SOFA 2018. Advances in Intelligent Systems and Computing, vol 1221. Springer, Cham, Print ISBN 978-3-030-51991-9, https://doi.org/10.1007/978-3-030-51992-6_13

b. Scientific articles published in specialized journals rated CNCSIS category B+ and listed in BDI international databases

1. **Crina Anina Bejan**, Dominic Bucerzan, “*Challenges of Securing Digital Information*”,
Proceeding of the 17th International Conference on Informatics in Economy (ISSN: 2247 – 1480), Education, Research & Business Technologies, pag. 337-342, 2018

2. Dominic Bucerzan, **Crina Anina Bejan**, „*Current Threats of Digital Information Technologies*”, Proceedings of The International Symposium Research and Education in Innovation Era Arad, 7th Edition, ISREIE 2018, Mathematics&Computer Science ISSN 2065 2569, pag. 6-11, 2018
3. **Crina Anina Bejan**, Dominic Bucerzan, „*On Image Steganography Metrics for Mobile Platforms*”, Proceedings of the 16th International Conference on INFORMATICS in ECONOMY (IE 2017), May 2017, pag 122-127, Education, Research & Business Technologies, Published by Bucharest University of Economic Studies Press, ISSN 2284-7472
4. **C.Rațiu**, Dominic. Bucerzan “*Steganography and Cryptography on Mobile Platforms* “ Constanta Maritime University Annals, Vol.20, 2013, ISSN 1582-3601
Revista de categoria B+, indexata BDI
5. Craciun Mihaela Daciana, Dominic Bucerzan, **Rațiu Crina**, “*Prediction Analysis of Bankruptcy Risk using Bayesian Networks*”, Constanta Maritime University Annals, Vol.14, 2010, pag. 157-162, ISSN 1582-3601
Revista de categoria B+, indexata BDI
6. Dominic Bucerzan, **Crina Rațiu**, Ioan Dascal, “*Aspects of a Watermark Solution*”, Revista Informatica Economică, vol. 14, no. 4/2010, pag. 132-138, ISSN 1453-1305
Revista de categoria B+, indexata BDI
http://revistaie.ase.ro/author_details.aspx?aid=5679
7. **Rațiu Crina**, Dominic Bucerzan, Craciun Mihaela Daciana, “*Statistical Model of the People Confidence in E-Business Services*” Constanta Maritime University Annals, Vol.14. 2010, pag. 237-240, ISSN 1582-3601
Revista de categoria B+, indexata BDI
8. Dominic Bucerzan, **Crina Rațiu**, “*Security Aspects in the e-banking System*” Constanta Maritime University Annals, 2009, Vol.12, pp. 355-360, ISSN 1582-3601
Revista de categoria B+, indexata BDI

D. Publications in extenso, appearing in papers of the main international specialized conferences

1. Dominic Bucerzan, **Crina Anina Bejan**, “*Wallet Key Management in Blockchain Technology*“, Proceedings of the IE 2020 International Conference, ISSN 2284-7472, Bucharest University of Economic Studies Press, Bucharest, Romania
2. Dominic Bucerzan, **Crina Anina Bejan**, “*On the Cryptoeconomics Emerging Research Areas*“, Proceedings of the IE 2019 International Conference, ISSN 2284-7472, , Bucharest University of Economic Studies Press, Bucharest, Romania, pag. 273-278

3. **Crina Anina Bejan**, Dominic Bucerzan, “*Challenges of Securing Digital Information*“, Proceedings of the 17th International Conference on INFORMATICS in ECONOMY (IE 2018) Education, Research & Business Technologies, ISSN 2284-7472, Bucharest University of Economic Studies Press, Iași, Romania, pag.337-342
4. Bucerzan D., **Rațiu C.**, “*Reliable Metrics for Image LSB Steganography on Mobile Platforms*“, Proceedings of the 7th International Workshop on Soft Computing Applications SOFA 2016, 24-26 August, Arad, Romania, Advances in Intelligent Systems and Computing (ISSN: 2194-5357), Springer, 2016
5. **C. Rațiu**, D. Bucerzan, “*Secure E-Business Solution for Mobile Platform*“ Proceedings of the 15th International Conference on INFORMATICS in ECONOMY (IE 2016) Education, Research & Business Technologies, Bucharest University of Economic Studies Press, Cluj-Napoca, Romania, pag.51-57, 2016, ISSN: 2284-7472, ISSN-L: 2247-1480
6. Bucerzan D., **Rațiu C.**, “*Testing methods for the efficiency of modern steganography solutions for mobile platforms*“, 2016 6th International Conference on Computers Communications and Control (ICCCC), IEEE Xplore, 10-14 Mai 2016, Oradea, România, ISBN:978-1-5090-1735-5, DOI: 10.1109/ICCCC.2016.7496734, <http://ieeexplore.ieee.org/abstract/document/7496734/>
7. **Crina Anina Rațiu (Bejan)**, “*Steganography techniques and performance evaluation*“, Proceedings of the International Symposium Research and Education in an Innovation ERA - 6rd Edition, Arad, decembrie 2016, pag. 132-136, ISSN 2065 2569
8. D. Bucerzan, **C. Rațiu** , „*Contributions to Steganographic Techniques on Mobile Devices*” Innovative Security Solutions for Information Technology and Communications , 8th International Conference, SECITC 2015, Bucharest, Romania, June 11-12, 2015. Revised Selected Papers, pag. 242-252, eBook ISBN 978-3-319-27179-8, ISBN 978-3-319-27178-1
9. Dominic Bucerzan, **Crina Rațiu**, „*Secret Communication using Cryptography and Steganography*” Proceedings of the International Symposium Research and Education in an Innovation ERA - 5rd Edition, Arad, Noiembrie 2014, pag. 14-20, ISSN 2065 2569 <http://www.rxiv.org/pdf/1412.0034v1.pdf>
10. D. Bucerzan, **C. Rațiu**, „*Image Processing with Android Steganography*” presented at „6th International Workshop on Soft Computing Applications”, SOFA 2014, Organized by **IEEE Romania**, 24-26 iulie, Timisoara, Romania, published by Springer, Advances in Intelligent Systems and Computing, Springer, Advances in Intelligent and Soft Computing, Soft Computing Applications, ISSN: 2194-5357, e-ISSN 2194-5365 <http://www.springer.com/gp/book/9783319182957>
11. D. Bucerzan, **C. Rațiu**, „*Binding Android Steganography by Windows Steganography* ” 5th International Conference on Computers, Communication & Control (ICCCC 2014), May 6-10, 2014, Oradea- Baile Felix, ISSN 1844-4334, 4(2014)

12. **C. Rațiu**, D. Bucerzan, M. Crăciun, „*Analysis of Bankruptcy Prediction Model in the Present Economic Situation*”
presented at „5th International Workshop on Soft Computing Applications”, SOFA 2012, Organized by **IEEE Computational Intelligence Society**, August 2012, Szeged, Hungary, published by Springer, Advances in Intelligent and Soft Computing, Soft Computing Applications, ISSN: 2194-5357, e-ISSN 2194-5365
http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=21025
13. **C. Rațiu**, D. Bucerzan, M. Crăciun, „*Contribution to Watermarking Techniques*”
presented at „5th International Workshop on Soft Computing Applications”, SOFA 2012, Organized by **IEEE Computational Intelligence Society**, August 2012, Szeged, Hungary, published by Springer, Advances in Intelligent and Soft Computing, Soft Computing Applications, ISSN: 2194-5357, e-ISSN 2194-5365
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14. Mihaela Crăciun, Dominic Bucerzan, **Crina Rațiu**, Violeta Chiș, „*Statistical Methods and Concepts of Probability Used in Bayesian Networks*”
Proceedings of the International Symposium Research and Education in an Innovation ERA - 4rd Edition, Arad, **Noiembrie 2012**, pag. 47-57, ISSN 2065 2569
15. Dominic Bucerzan, **Crina Rațiu**, Mihaela Crăciun, „*Digital Steganography, Completing the Security of Digital Data*”
Proceedings of the International Symposium Research and Education in an Innovation ERA - 4rd Edition, Arad, **Noiembrie 2012**, pag. 58-66, ISSN 2065 2569
16. M. Crăciun, **C. Rațiu**, D. Bucerzan, A. Manolescu, „*On the Applicability of the Anghel and Altman Bankruptcy Prediction Models in the Actual Crisis Conditions*”
International Conference on Computers, Communication & Control (ICCCC 2012), Workshop on Intelligent Decision Support Systems for Crisis Management, May 2012, Oradea, Romania, vol. 3(2012), ISSN 1844-4334
17. **Crina Ratiu**, Dominic Bucerzan, „*Attacks on the Watermark Techniques*”
2nd Symposium on Business Informatics in Central and Eastern Europe 2011, Österreichische Computer Gesellschaft, , pag. 235-245, ISBN 978-3-85403-280-9
18. Mihaela Crăciun, Dominic Bucerzan, **Crina Rațiu**, „*The Analysis of Continuous Variables in Model of Bankruptcy Risk using Bayesian Networks*”,
Proceeding of the Second International Conference “Modelling and Development of Intelligent Systems”, September 29-October 2, 2011 Sibiu, Romania, Lucian Blaga University Press, Sibiu, 2011, pag. 36-44, ISSN 2067-3965
<http://conferences.ulbsibiu.ro/mdis/2011/papers/pg36.pdf>
19. **Crina Rațiu**, Dominic Bucerzan, Mihaela Crăciun, „*About Hash Function and Watermark Algorithms*”,
Proceeding of the Second International Conference “Modelling and Development of Intelligent Systems”, September 29-October 2, 2011 Sibiu, Romania, Lucian Blaga University Press, Sibiu, 2011, pag. 138-145, ISSN 2067-3965

20. D. Bucerzan, M. Crăciun, V. Chis, **C. Rațiu**, „*Analysis Methods for Stream Cipher in Cryptography*”
International Conference on Computers, Communication & Control (ICCCC 2010), May 2010, Oradea, vol. 2(2010), ISSN 1844-4334
21. Mihaela Crăciun, Dominic Bucerzan, **Crina Rațiu**, „*Comparison between Prediction Models of Bankruptcy Risk*”
Proceedings of the International Symposium Research and Education in an Innovation ERA - 3rd Edition, Arad, Noiembrie 2010, pag. 31-37, ISSN 2065-2569
22. **Crina Rațiu**, Dominic Bucerzan, Mihaela Crăciun, „*Solutions for Ensuring Data Autenticity by Using Digital Watermarking*”
Proceedings of the International Symposium Research and Education in an Innovation ERA - 3rd Edition, Arad, Noiembrie 2010, pag. 57-65, ISSN 2065-2569
23. **Rațiu C.**, Pop C., „*Serviciile E-Banking în Contextul Noilor Tehnologii Informaționale*”,
Studia Universitatis Vasile Goldiș, Seria – Științe Exacte, Vol. 17, 2007, ISSN: 1584-2355
24. Brandaș C., **Rațiu C.**, „*Rolul Depozitelor De Date în Cadrul Sistemelor Suport de Decizii*”,
Studia Universitatis Vasile Goldiș, Seria – Științe Exacte, Vol. 16, 2006, ISSN: 1584-2355

E. Other works and scientific contributions. Citations in ISI / BDI books and journals.

1. **C. Rațiu**, D. Bucerzan, M.J. Manolescu, “*SmartSteg: A New Android Based Steganography Application*”
International Journal of Computers Communications & Control, ISSN 1841-9836,
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WOS:000324844700004 , Factor de impact **IF=0.694**
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- Ci1. Ali, Abdelmgeid, Al-Hussien Seddik Saad, and Ahmed Hamdy Ismael. "Data Hiding Technique Based on NFC-Enabled Smartphones." *Procedia Computer Science* 171 (2020): 2400-2409. Elsevier
- Ci2. Koski, Juha-Pekka. "Pelillisyys ja hyötypelit työkaluina vienankarjalan elvyttämiseen." (2019).
- Ci3. Mihailo Jovanovic, Ivan Babic, Milan Cabarkapa, Jelena Misic, Sasa Mijalkovic, Vojkan Nikolic and Dragan Randjelovic, „*SOSerbia: Android-Based Software Platform for Sending Emergency Messages*”, *Complexity*, Volume 2018, Article ID 8283919, 9 pages
Revista ISI cu factor de impact IF=4,621, scor absolut de influență AIS (2017)= 0,448, Q2
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- Ci4. Milad Taleby Ahvanooey, Qianmu Li, Jun Hou, Hassan Dana Mazraeh, and Jing Zhang, „*AITSteg: An Innovative Text Steganography Technique for Hidden Transmission of Text Message via Social Media*”, IEEE Access, 2018, vol. 6, pp. 65981-65995,
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- Ci5. Youngjin Park, Janghyeok Yoon , “*Application technology opportunity discovery from technology portfolios: Use of patent classification and collaborative filtering*”
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<http://dx.doi.org/10.1016/j.techfore.2017.02.018>
- Ci6. Srinivasan Avinash, Jie Wu, and Justin Shi, "*Secure android covert channel with robust survivability to service provider restrictions.*" International Journal of Security and Networks 12.1 (2017), pag. 27-39, Print ISSN: 1747-8405, Online ISSN: 1747-8413,
DOI: <http://dx.doi.org/10.1504/IJSN.2017.081061>
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- Ci7. Bicen, Huseyin, and Senay Kocakoyun. "Determination of University Students' Most Preferred Mobile Application for Gamification." World Journal on Educational Technology: Current Issues 9.1 (2017): 18-23.
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- Ci9. Adrian, Aldo, and Silvester Dian Handy Permana. "Pengembangan Aplikasi Pengaman Berkas Menggunakan Algoritma Blowfish." SISFO 7 Vol 7 No 1 7 (2017).
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<https://patents.google.com/patent/US20160085981A1/en>
- Ci15. Chiuchisan, Iuliana, et al. "Tremor Measurement System for Neurological Disorders Screening." International Workshop Soft Computing Applications. Springer, Cham, 2016. https://link.springer.com/chapter/10.1007/978-3-319-62521-8_28
- Ci16. Farcaș, Pavel, Ciprian Pop-Moldovan, and Marius Constantin Popescu. "Specialized Software for Tracking and Management Machinery Used in Textile Industry." International Workshop Soft Computing Applications. Springer, Cham, 2016.
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1. **C. Rațiu**, D. Bucerzan, M.J. Manolescu, “*SmartSteg: A New Android Based Steganography Application*”
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- Ci18. Roopesh Kumar¹, Akhilesh Dubey², ^{1,2}Lecturer, *Android Environment and Information Security* , IJSRD - International Journal for Scientific Research & Development| Vol. 3, Issue 03, **2015** | ISSN (online): 2321-0613
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- Ci20. Mazurczyk Wojciech; Caviglione Luca, “[Steganography in Modern Smartphones and Mitigation Techniques](#)”
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Volume: 17 Issue: 1 Pages: 334-357 Published: 2015
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- Ci22. Majcher Andrzej, "The application of mobile devices in the system for carbon measurement in volatile ashes from power industry boilers." Problemy Eksploatacji 3 (2013), pag.135-145, ISSN:1232-9312, Publisher: Wydawnictwo Naukowe Instytutu Technologii Eksploatacji - Państwowego Instytutu Badawczego,
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2. D. Bucerzan, **C. Rațiu**, “*Image Processing with Android Steganography*”
Soft Computing Application – Advances in Intelligent Systems and Computing, **Springer International Publishing**, Proceedings of 6th International Workshop on Soft Computing Applications (SOFA 2014), Volume 1, eBook ISBN 978-3-319-18296-4, ISBN 978-3-319-27178-1, DOI 10.1007/978-3-319-27179-8, pag. 27-36, Publicata in 2015
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