

Concurs pentru ocuparea postului de Asistent Universitar, poz.144

Facultatea de Cibernetică, Statistică și Informatică Economică

Departamentul de Informatică și Cibernetică Economică

Disciplinele: Programare orientată obiect, Programarea aplicațiilor Windows, Tehnici multimedia pentru afaceri, Multimedia (engleză)

Domeniul: Informatică Economică

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LISTA DE LUCRĂRI

Candidat: VÎLCEA C. Alexandru-Lucian - **Dr./**din

1. Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări din prezenta listă de lucrări:

1. Ion, M. C., Bloomer, C. C., Bărbășcu, T. I., Oficialdegui, F. J., Shoobs, N. F., Williams, B. W., Scheers, K., Clavero, M., Grandjean, F., Collas, M., Baudry, T., Loughman, Z., Wright, J. J., Ruokonen, T. J., Chucholl, C., Guareschi, S., Koese, B., Banyai, Z. M., Hodson, J., ... **Vîlcea, A.L.**, ... Părvulescu, L. (2024). *World of Crayfish™: a web platform towards real-time global mapping of freshwater crayfish and their pathogens*. PeerJ, 12, e18229. p.
2. Șcheau, M. C., Achim, M. V., Găbudeanu, L., Văidean, V. L., **Vîlcea, A. L.** and Apetri, L. (2023). *Proposals of Processes and Organizational Preventive Measures against Malfunctioning of Drones and User Negligence*. Drones, 7(1), 64. p.
3. Șcheau, M. C., Achim, M. V., Găbudeanu, L., Brici, I. and **Vîlcea, A.L.** (2022). *Legal, Economic and Cyber Security Framework Considerations for Drone Usage*. Applied Sciences, 12(9), 4663. p.
4. Maiorescu, I., Larisa, G., **Vîlcea, A.L.**, Sabou, G.S., and Dardala, M. (2021). *Intrusiveness and Data Protection in Iot Solutions for Smart Homes*. Amfiteatru. Wwww.Amfiteatru.economic.Ro, 23(57), 429. p.
5. Cociorva, A. and **Vîlcea, A. L.** (2022). *Enhanced Monitoring Metrics Using IPCC Framework For E-Business Solutions*. Journal of Software and Systems Development, 1–16. pp.
6. Cociorva, A., Onofrei, N. and **Vîlcea, A.L.** (2023). *Tool Integrations for Monitoring Solutions and Associated Performance Analysis*. Proceedings of the International Conference on Business Excellence, 17(1), 1929–1943. pp.
7. Șcheau, M.C.; Găbudeanu, L.; Brici, I.; **Vîlcea, A.L.** *Preventive cybersecurity steps to enhance drone usage*. In Proceedings of the 23rd RSEP International Economics, Finance & Business Conference, Online, 25–26 November 2021; pp. 106–118
8. **Vîlcea, L.** and Dârdală, M., 2020. *Detecting Plant Diseases Using Deep Learning Architectures*. In: R. Pamfilie, V. Dinu, L. Tăchiciu, D. Pleșea, C. Vasiliu eds. 6th BASIQ International Conference on New Trends in Sustainable Business and Consumption. Messina, Italy, 4-6 June 2020. Bucharest: ASE, pp. 1218-1224
9. **Vîlcea, A.L.**, Cociorva, A., *A RESTful API Architecture Approach for Managing Spatial Data In E-Business Systems*, 37th International Business Information Management Association (IBIMA), Cordoba, Spania, 2021, pp. 9096-9106
10. Maiorescu, I., Sabou, G. C., **Vîlcea, A.L.** and Georgescu, B. (2022). *Gender Differences in the Perception of Online Higher Education During COVID -19 Pandemic*. In New Trends in Sustainable Business and Consumption. New Trends in Sustainable Business and Consumption. Editura ASE.

2. Teza de doctorat

T1. Proiectarea și implementarea unui sistem informatic geografic pentru agricultura inteligentă

3. Cărți/cursuri publicate în edituri recunoscute (Ca1, Ca2 etc.), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, (D1, D2 etc.), după caz, prin care se aduc contribuții la dezvoltarea activităților didactice/profesionale.

N/A

4. Cărți de specialitate publicate în edituri recunoscute (Cb1, Cb2 etc.), **articole/studii** publicate in extenso în reviste de specialitate de circulație internațională recunoscute (reviste cotate ISI sau indexate în baze de date internaționale specifice domeniului) (Ri1, Ri2 etc.), **articole/studii in extenso** publicate în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate (cu ISSN/ ISBN) (Vi1, Vi2 etc.), precum și **alte lucrări similare**: articole/studii publicate in extenso în reviste de specialitate de circulație națională recunoscute CNCSIS (Rn1, Rn2 etc.), articole/studii publicate in extenso în volumele unor manifestări științifice naționale (cu ISSN/ISBN) (Vn1, Vn2 etc.), lucrări prezentate la diferite seminarii/expoziții, inovații etc. (E1, E2 etc.), după caz, prin care se aduc contribuții la dezvoltarea domeniului.

Ri1. Ion, M. C., Bloomer, C. C., Bărbășcu, T. I., Oficialdegui, F. J., Shoobs, N. F., Williams, B. W., Scheers, K., Clavero, M., Grandjean, F., Collas, M., Baudry, T., Loughman, Z., Wright, J. J., Ruokonen, T. J., Chucholl, C., Guareschi, S., Koese, B., Banyai,

- Z. M., Hodson, J., ... **Vilcea, A.L.**, ... Părvulescu, L. (2024). *World of Crayfish™: a web platform towards real-time global mapping of freshwater crayfish and their pathogens*. PeerJ, 12, e18229. p.
- Ri2.** Cociorva, A., Onofrei, N. and **Vilcea, A.L.** (2023). *Tool Integrations for Monitoring Solutions and Associated Performance Analysis*. Proceedings of the International Conference on Business Excellence, 17(1), 1929–1943. pp.
- Ri3.** Șcheau, M. C., Achim, M. V., Găbudeanu, L., Văidean, V. L., **Vilcea, A. L.** and Apetri, L. (2023). *Proposals of Processes and Organizational Preventive Measures against Malfunctioning of Drones and User Negligence*. Drones, 7(1), 64.
- Ri4.** Șcheau, M. C., Achim, M. V., Găbudeanu, L., Brici, I. and **Vilcea, A.L.** (2022). *Legal, Economic and Cyber Security Framework Considerations for Drone Usage*. Applied Sciences, 12(9), 4663. p.
- Ri5.** Maiorescu, I., Larisa, G., Vilcea, A.L., Sabou, G.S., and Dardala, M. (2021). *Intrusiveness and Data Protection in Iot Solutions for Smart Homes*. Amfiteatru. Wwww.Amfiteatru.economic.Ro, 23(57), 429. p.
- Ri6.** **Vilcea, L.** and Dârdală, M., 2020. *Detecting Plant Diseases Using Deep Learning Architectures*. In: R. Pamfilie, V. Dinu, L. Tăchiciu, D. Pleșea, C. Vasiliu eds. 6th BASIQInternational Conference on New Trends in Sustainable Business and Consumption. Messina, Italy, 4-6 June 2020. Bucharest: ASE, pp. 1218-1224

5. Citări ale lucrărilor publicate: referința bibliografică a lucrării citate (Ci1, Ci2) și referința / ele bibliografică / e a / ale lucrării care citează (Ci1.1, Ci1.2..., Ci2.1, Ci2.2, etc.)

Ci1 - Ion, M. C., Bloomer, C. C., Bărbăscu, T. I., Oficialdegui, F. J., Shoobs, N. F., Williams, B. W., Scheers, K., Clavero, M., Grandjean, F., Collas, M., Baudry, T., Loughman, Z., Wright, J. J., Ruokonen, T. J., Chucholl, C., Guareschi, S., Koese, B., Banyai, Z. M., Hodson, J., ... **Vilcea, A.L.**, ... Părvulescu, L. (2024). *World of Crayfish™: a web platform towards real-time global mapping of freshwater crayfish and their pathogens*. PeerJ, 12, e18229. p.

Ci1.1 - Aluma, M. O., Kaldre, K., Strand, D. A., Hurt, M. and Pukk, L. (2025). *eDNA-Based Detection of Invasive Crayfish and Crayfish Plague in Estonia*. Environmental DNA, 7(3).

Ci1.2 - Wos, G., Amer, N. R., Antoľ, A., Stoks, R. and Sniegula, S. (2025). *Warming and latitude shape the non-consumptive effects of native and invasive alien crayfish predators on damselfly prey*. NeoBiota, 98, 223–245. pp.

Ci1.3 - Ács, A., Ion, M. C., Miok, K., Laza, A. V., Pitic, A., Robnik-Šikonja, M. and Părvulescu, L. (2025). *Threats Assessment of the Endemic Idle Crayfish (Austropotamobius bihariensis Părvulescu, 2019): Lessons From Long-Term Monitoring*. Aquatic Conservation: Marine and Freshwater Ecosystems, 35(1).

Ci1.4 - Zorić, K., Bugarski-Stanojević, V., Roljić, R., Nikolić, V., Stamenković, G., Ilić, M. and Marković, V. (2025). *Filling the gaps in the genetic diversity of Austropotamobius torrentium (Astacidae, Decapoda) from one of the few unexplored hot spots*. Knowledge & Management of Aquatic Ecosystems, 426, 2. p.

Ci1.5 - Buřić, M., Ložek, F., Görner, T., Čuprová, V., Kožený, P., Mojžišová, M., Vlach, P., Štruncová, E., Petrusek, A., Kouba, A. and Svobodová, J. (2025). *Difficult to deal with: attempts for eradication of marbled crayfish from a small urban pond*. Management of Biological Invasions, 16(2), 443–464. pp.

Ci1.6 - Guareschi, S., Cancellario, T., Oficialdegui, F. J., Laini, A. and Clavero, M. (2024). *Some Like It Cold: Long-Term Assessment of a Near-Global Invader*. Ecology and Evolution, 14(12).

Ci1.7 - Rhzali, I. and Storey, K. B. (2024). *Histone Modifications in the Anoxic Northern Crayfish, Faxonius virilis*. Marine Biotechnology, 27(1).

Ci1.8 - Danilović, M., Weinländer, M., Marguč, D., Bányai, Z., András, W., Füreder, L. and Maguire, I. (2025). *Riverscape analysis and habitat suitability modeling for conservation management of native crayfish species – A case study from Croatia, Slovenia and Hungary*. Journal for Nature Conservation, 83, 126770. p.

Ci2 - Cociorva, A., Onofrei, N. and **Vilcea, A.L.** (2023). *Tool Integrations for Monitoring Solutions and Associated Performance Analysis*. Proceedings of the International Conference on Business Excellence, 17(1), 1929–1943. pp.

Ci2.1 - Trigka, M. and Dritsas, E. (2025). *Edge and Cloud Computing in Smart Cities*. Future Internet, 17(3), 118. p.

Ci3 - Șcheau, M. C., Achim, M. V., Găbudeanu, L., Văidean, V. L., **Vilcea, A. L.** and Apetri, L. (2023). *Proposals of Processes and Organizational Preventive Measures against Malfunctioning of Drones and User Negligence*. Drones, 7(1), 64.

Ci3.1 - Somerville, A., Lynar, T., Joiner, K. and Wild, G. (2024). *Use of Simulation for Pre-Training of Drone Pilots*. Drones, 8(11), 640. p.

Ci3.2 - Ali, H. M. S., Jalal, S. K., Saab, M. W., Sulaiman, S. K., Ghno, G. S. N., Mustafa, S. I. and Azimov, B. (2024). *Deciphering the Implications of Swarm Intelligence Algorithms in Efficiently Managing Drone Swarms*. In 2024 35th Conference of Open Innovations Association (FRUCT) (112–123. pp.). IEEE.

Ci3.3 - Dijck, G. van, On, A.-D., Snel, J. and Nanda, R. (2023). *Retrieving Relevant EU Drone Legislation with Citation Analysis*. Drones, 7(8), 490. p.

Ci3.4 - Wandelt, S., Wang, S., Zheng, C. and Sun, X. (2024). *AERIAL: A Meta Review and Discussion of Challenges Toward Unmanned Aerial Vehicle Operations in Logistics, Mobility, and Monitoring*. IEEE Transactions on Intelligent Transportation Systems, 25(7), 6276–6289. pp.

Ci3.5 - Nazir, M. F., Atif, S. and Hussain, E. (2025). *An integrated geographic information system (GIS) and analytical hierarchy process (AHP)-based approach for drone-optimized large-scale flood imaging*. Drone Systems and Applications, 13, 1–18. pp.

Ci3.6 - Solomentsev, O., Zaliskyi, M., Osipchuk, A. and Maloied, M. (2024). *Reliability Data Processing for UAV Systems and Components*. In 2024 IEEE 7th International Conference on Actual Problems of Unmanned Aerial Vehicles Development (APUAVD) (13–18. pp.). IEEE.

- Ci3.7** - Alkouz, B., Bouguettaya, A., Lakhdari, A. and Yangu, S. (2024). *Signal-Based Approach for Reliable Drone Swarm Delivery*. In 2024 IEEE International Conference on Web Services (ICWS) (1238–1244. pp.). IEEE.
- Ci3.8** - Capraș, I. L. and Achim, M. V. (2024). *Analysis and Classification of Corporate Fraud Based on the Literature and Investigated Cases in Romania*. Studies in Business and Economics, 19(2), 155–175. pp.
- Ci3.9** - Sindiramutty, S. R., Jhanjhi, N. Z., Tan, C. E., Khan, N. A., Shah, B. and Manchuri, A. R. (2024). *Cybersecurity Measures for Logistics Industry*. In Advances in Information Security, Privacy, and Ethics (1–58. pp.). IGI Global.
- Ci3.10** - Sindiramutty, S. R., Tan, C. E. and Wei, G. W. (2024). *Eyes in the Sky*. In Advances in Information Security, Privacy, and Ethics (405–451. pp.). IGI Global.
- Ci4** - Șcheau, M. C., Achim, M. V., Găbudeanu, L., Brici, I. and **Vilcea, A.L.** (2022). *Legal, Economic and Cyber Security Framework Considerations for Drone Usage*. Applied Sciences, 12(9), 4663. p.
- Ci4.1** - Dijck, G. van, On, A.-D., Snel, J. and Nanda, R. (2023). *Retrieving Relevant EU Drone Legislation with Citation Analysis*. Drones, 7(8), 490. P.
- Ci4.2** - Șcheau, M. C., Achim, M. V., Găbudeanu, L., Văidean, V. L., Vilcea, A. L. and Apetri, L. (2023). *Proposals of Processes and Organizational Preventive Measures against Malfunctioning of Drones and User Negligence*. Drones, 7(1), 64. p.
- Ci4.3** - Israel, M., Shropshire, J., Rigsby, A. and Zheng, K. (2025). *Poseidon: A Low-Overhead Application for Ensuring Autonomous Drone Compliance with National Airspace Regulations*. In SoutheastCon 2025 (122–127. pp.). IEEE.
- Ci4.4** - Sun, X., Wang, S., Zhang, X. and Wandelt, S. (2025). *LAERACE: Taking the policy fast-track towards low-altitude economy*. Journal of the Air Transport Research Society, 4, 100058. p.
- Ci4.5** - Fudge, T. P. and Ferebee, S. S. (2024). *Search and Rescue Drones*. In Advances in Information Security, Privacy, and Ethics (108–127. pp.). IGI Global.
- Ci4.6** - Sindiramutty, S. R., Tan, C. E., Shah, B., Khan, N. A., Gharib, A. H., Manchuri, A. R., Muniandy, L., Ray, S. K. and Jazri, H. (2024). *Ethical Considerations in Drone Cybersecurity*. In Advances in Information Security, Privacy, and Ethics (42–87. pp.). IGI Global.
- Ci4.7** - Butt, R., Rehman, T., Tariq, N., Ashraf, M. and Humayun, M. (2024). *Security of Unmanned Aerial Vehicles*. In Advances in Information Security, Privacy, and Ethics (291–309. pp.). IGI Global.
- Ci5** - Șcheau, M.C.; Găbudeanu, L.; Brici, I.; **Vilcea, A.L.** *Preventive cybersecurity steps to enhance drone usage*. In Proceedings of the 23rd RSEP International Economics, Finance & Business Conference, Online, 25–26 November 2021; pp. 106–118
- Ci5.1** - Constantinescu, N., Ticleanu, O.-A. and Hunyadi, I. D. (2024). *Securing Authentication and Detecting Malicious Entities in Drone Missions*. Drones, 8(12), 767. p.
- Ci5.2** - Șcheau, M. C., Achim, M. V., Găbudeanu, L., Văidean, V. L., Vilcea, A. L. and Apetri, L. (2023). *Proposals of Processes and Organizational Preventive Measures against Malfunctioning of Drones and User Negligence*. Drones, 7(1), 64. p.
- Ci6** - Maiorescu, I., Larisa, G., Vilcea, A.L., Sabou, G.S., and Dardala, M. (2021). *Intrusiveness and Data Protection in Iot Solutions for Smart Homes*. Amfiteatru. WwW.AmfiteatruEconomic.Ro, 23(57), 429. p.
- Ci6.1** - Alhitmi, H. K., Mardiah, A., Al-Sulaiti, K. I. and Abbas, J. (2024). *Data security and privacy concerns of AI-driven marketing in the context of economics and business field: an exploration into possible solutions*. Cogent Business & Management, 11(1).
- Ci6.2** - Toader, L., Paraschiv, D., Dinu, V., Manea, D. and Mihai, M. (2023). *The effects of private sector companies' research and development investments on the adoption of cloud computing services in the European Union*. E+M Economie a Management, 26(2), 189–202. pp.
- Ci7 - Vilcea, L.** and Dărdală, M., 2020. *Detecting Plant Diseases Using Deep Learning Architectures*. In: R. Pamfilie, V. Dinu, L. Tăchiciu, D. Pleșea, C. Vasiliu eds. 6th BASIQ International Conference on New Trends in Sustainable Business and Consumption. Messina, Italy, 4-6 June 2020. Bucharest: ASE, pp. 1218-1224
- Ci7.1** - Suljovic, A., Cakic, S., Popovic, T. and Sandi, S. (2022). *Detection of Plant Diseases Using Leaf Images and Machine Learning*. In 2022 21st International Symposium INFOTEH-JAHORINA (INFOTEH) (1–4. pp.). IEEE.