

5. Общ списък на научните трудове на Александър Илиев Илиев

конкурс за професор в област на висше образование 4. Природни науки, математика и информатика, професионално направление 4.6. Информатика и компютърни науки, научна специалност: Информатика (Конгнитивни модели и изкуствен интелект за мултимодални данни), за нуждите на секция „Математическа лингвистика“, обявен в ДВ, бр. 54/12.06.2026 г.

Общо брой научни трудове: 66

Научни публикации, индексирани в Scopus и Web of Science:	1, 4, 5, 6, 7, 8, 9, 10, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 31, 32, 36, 37, 38, 39, 40, 41, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58	43 бр.
Научни публикации с IF и/или SJR:	3, 4, 5, 6, 7, 8, 9, 16, 17, 20, 32, 36, 37, 39, 40, 41, 42, 43, 44, 47, 49, 50, 51, 52, 53, 54, 56, 57, 58	29 бр.
Монографии:	A, B	2 бр.
Учебници:	C, D, E, F	4 бр.
Полезен модел	H	1 бр.
Глави от книги:	G	1 бр.
Образователна и научна степен „доктор“ - публикации по темата на дисертационния труд	33, 34, 35, 36, 37	5 бр.
Публикации, приложени за конкурса за академична длъжност „доцент“	33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43	11 бр.
Публикации за участие в конкурса за академична длъжност „професор“	3, 4, 5, 6, 7, 8, 9, 16, 17, 20, 22, 24, 27, 28, 32, 44, 47, 48, 49, 50, 51, 53, 54	23 бр.

Монографии:	
A. Alexander I. Iliev , "AI Popular Systems. Architecture, Capabilities, and Comparative Analysis", LAP Lambert Academic Publishing, ISBN: 978-66-30-21444-4, 2026, pp. 292	Представена в конкурса за академична длъжност „професор“
B. Alexander I. Iliev , "Practical Benchmarking and Hands-On Evaluation of AI Popular Systems", LAP Lambert Academic Publishing, ISBN: 978-66-30-22514-3, 2026, pp. 164	Представена в конкурса за академична длъжност „професор“
Учебници:	
C. Alexander I. Iliev . Artificial Intelligence Smart Systems Design - Applied Use Cases Part 1. LAP Lambert Academic Publishing, 2023, ISBN:978-620-6-78830-0, pp. 136	Представена в конкурса за академична длъжност „професор“ като

	университетски учебник
D. Alexander I. Iliev. Artificial Intelligence in Smart Systems - Applied Use Cases Part 2. LAP Lambert Academic Publishing, 2023, ISBN:978-620-7-45055-8, pp. 168	Представена в конкурса за академична длъжност „професор“ като университетски учебник
E. Alexander I. Iliev, “Smart Python for Machine Learning and Intelligent Modeling, Foundations and Classical Machine Learning Part 1”, LAP Lambert Academic Publishing, ISBN 978-66-30-10726-5, 2026, pp. 316	Представена в конкурса за академична длъжност „професор“ като университетски учебник
F. Alexander I. Iliev, “Smart Python for Machine Learning and Intelligent Systems, Deep Learning, Transfer Learning, and AI Engineering Part 2”, LAP Lambert Academic Publishing, ISBN 978-66-30-21092-7, 2026, pp. 324	Представена в конкурса за академична длъжност „професор“ като университетски учебник
Глава от книга:	
G. Alexander I. Iliev, “Perspective chapter: Emotion detection using speech analysis and Deep Learning”, Publisher: IntechOpen, Book title: “Emotion Recognition - Recent Advances, New Perspectives and Applications”, Editor: Seyyed Abed Hosseini, 2023, DOI: 10.5772/intechopen.110730, Link	Представена в конкурса за академична длъжност „професор“
Полезен Модел:	
H. “Big Data Processing System”, Type: Utility model , Authors: A.I. Shikalanov, L.M. Kirilov, E.P. Kovacheva, R.V. Nikolov, E.D. Shoikova-Stoyanova, A.I. Iliev , L.I. Gotsev, Patent Office of the Republic of Bulgaria, Patent No. 5104 U1 / 29.08.2025	Представена в конкурса за академична длъжност „професор“
Публикации:	
1. I. Iliev, A., (2023). Benefits and Security Challenges of Big Data Analytics. <i>Digital Presentation and Preservation of Cultural and Scientific Heritage</i> , 13, 169–180. https://doi.org/10.55630/dipp.2023.13.16 , ISSN:1314-4006, Без JCR или SJR –	

индексиран в WoS или Scopus (Scopus)  Search < Back to results < Previous 5 of 34 Next > Download Print Save to PDF Save to list Create bibliography <i>Digital Presentation and Preservation of Cultural and Scientific Heritage</i> • Open Access • Volume 13, Pages 169 - 180 • 2023 • 13th International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, DiPP 2023 • Burgas • 7 September 2023through 10 September 2023 • Code 192556 Document type Conference Paper • Gold Open Access Source type Conference Proceedings ISSN 13144006 DOI 10.55630/dipp.2023.13.16 View more Benefits and Security Challenges of Big Data Analytics Iliev, Alexander I.^{a, b}   Save all to author list ^a Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 8, G. Bonchev Str., Sofia, 1113, Bulgaria ^b SRH Berlin University of Applied Sciences, 10, Ernst-Reuter-Platz, Berlin, 10587, Germany	
2. Iliev, A., Nebioglu, B.. Higher Order Orthogonal Polynomials as Activation Functions in Artificial Neural Networks. 17, 1, Serdica Journal of Computing, 2023, ISSN:1312-6555, DOI:https://doi.org/10.55630/sjc.2023.17.1-16, 1-16 Международно академично издателство (MathSciNet)	
3. Iliev, A.I., Nimmala, A., Rahiman, R.A., Raju, S., Chilakalanerpu, S. Fake Review Recognition using an SVM Model. In: Arai, K. (eds) Intelligent Computing (SAI 2023), Lecture Notes in Networks and Systems, Vol. 739. Springer, Cham. 2023. DOI:10.1007/978-3-031-37963-5_61, Print ISBN: 978-3-031-37962-8, Online ISBN: 978-3-031-37963-5, pp. 885-893, SJR (Scopus):0.171 Q4 (Scopus), Линк  Search Indexed keywords < Back to results 1 of 7 Next > Download Print Save to PDF Save to list Create bibliography <i>Lecture Notes in Networks and Systems</i> • Volume 739 LNNS, Pages 885 - 893 • 2023 • Proceedings of the Computing Conference 2023 • London • 22 June 2023through 23 June 2023 • Code 301079 Document type Conference Paper Source type Book Series ISSN 23673370 ISBN 978-303137962-8 DOI 10.1007/978-3-031-37963-5_61 View more Fake Review Recognition Using an SVM Model Iliev, Alexander I.^{a, b}  ; Nimmala, Anandreddy^a  ; Rahiman, Rashid Abdul^a  ; Raju, Sonia^a  ; Chilakalanerpu, Swetha^a   Save all to author list ^a SRH University of Applied Sciences, Berlin, Germany ^b Bulgarian Academy of Sciences, Sofia, Bulgaria	Представена в конкурса за академична длъжност „професор“ под №12
4. Umapathy, S.G., Iliev, A.I. Style Accessory Occlusion using CGAN with Paired Data. In: Arai, K. (eds) Intelligent Computing (SAI 2023), Lecture Notes in Networks and Systems, Vol. 739. Springer, Cham. 2023. DOI:10.1007/978-3-031-37963-5_70, Print ISBN: 978-3-031-37962-8, Online ISBN: 978-3-031-37963-5, pp. 1011-1029, SJR (Scopus):0.171 Q4 (Scopus), Линк	Представена в конкурса за академична длъжност „професор“ под №13

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5. Iliev, A.I., Malvika Panwar M. AI in Cryptocurrency. Future of Information and Communication Conference (FICC 2023), Springer series "Lecture Notes in Networks and Systems", Vol. 652, 2023, ISBN: 978-3-031-28072-6, Online ISBN: 978-3-031-28073-3, ISSN:23673370, 23673389, https://doi.org/10.1007/978-3-031-28073-3_14, pp. 205-217, SJR (Scopus): 0.171 Q4 (Scopus), Линк  Scopus Search < Back to results < Previous 57 of 153 Next > Download Print Save to PDF Save to list Create bibliography <i>Lecture Notes in Networks and Systems</i> • Volume 652 LNNS, Pages 205 - 217 • 2023 • 8th Future of Information and Computing Conference, FICC 2023 • Virtual, Online • 2 March 2023 through 3 March 2023 • Code 291059 Document type Conference Paper Source type Book Series ISSN 23673370 ISBN 978-303128072-6 DOI 10.1007/978-3-031-28073-3_14 AI in Cryptocurrency Iliev, Alexander I.^{a, b} ; Panwar, Malvika^a Save all to author list ^a SRH University Berlin, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 8 Acad. Georgi Bonchev Street, Sofia, 1113, Bulgaria	Представена в конкурса за академична длъжност „професор“ под №20
6. Iliev, A.I., Raksha, A. Text Regression Analysis for Predictive Intervals using Gradient Boosting. In: Arai, K. (eds) Advances in Information and Communication. Future of Information and Communication Conference (FICC 2023), Lecture Notes in Networks and Systems, Vol. 652. Springer, Cham. DOI:10.1007/978-3-031-28073-3_18, Print ISBN: 978-3-031-28072-6, Online ISBN: 978-3-031-28073-3, pp. 257-269, SJR (Scopus):0.171 Q4	Представена в конкурса за академична длъжност „професор“ под №11

(Scopus), Индексирана в Scopus, Web of Science, Линк  Scopus Search	
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7. Mansoor N., Iliev, A.I., Artificial Intelligence in Forensic Science. Future of Information and Communication Conference (FICC 2023), Springer series "Lecture Notes in Networks and Systems", Vol. 652, 2023, ISBN: 978-3-031-28072-6, Online ISBN: 978-3-031-28073-3, ISSN:23673370, 23673389, https://doi.org/10.1007/978-3-031-28073-3_11, pp.155-163, SJR (Scopus):0.171 Q4 (Scopus), Линк  Scopus Search	Представена в конкурса за академична длъжност „професор“ под №10
8. Rajasekaran, R.K., Iliev, A.I. Hybrid Recommendation System. In: Arai, K. (eds) Advances in Information and Communication. Future of Information and Communication Conference (FICC 2023), Lecture Notes in Networks and Systems, Vol. 651. Springer, Cham, DOI: 10.1007/978-3-031-28076-4_1. Print ISBN: 978-3-031-28075-7, Online ISBN: 978-3-031-28076-4, pp. 1-11, SJR (Scopus):0.171 Q4 (Scopus), Линк	

 Indexed keywords 1 of 1 Topics Download Print Save to PDF Save to list Create bibliography <i>Lecture Notes in Networks and Systems</i> • Volume 651 LNNS, Pages 1 - 11 • 2023 • 8th Future of Information and Computing Conference, FICC 2023 • Virtual, Online • 2 March 2023 through 3 March 2023 • Code 291059 Hybrid Recommendation System Document type Conference Paper Source type Book Series ISSN 23673370 ISBN 978-303128075-7 DOI 10.1007/978-3-031-28076-4_1 Rajasekaran, Raghul Krishna^a ; Илиев, Александър И.^{a, b} Save all to author list ^a SRH University Berlin, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 8 Academy Georgi Bonchev Street, Sofia, 1113, Bulgaria	
9. Илиев, А.И., Anand, A. Huber Loss and Neural Networks Application in Property Price Prediction. In: Arai, K. (eds) Advances in Information and Communication. Future of Information and Communication Conference (FICC 2023), Lecture Notes in Networks and Systems, Vol. 652. Springer, Cham. DOI: 10.1007/978-3-031-28073-3_17, Print ISBN: 978-3-031-28072-6, Online ISBN: 978-3-031-28073-3, pp. 242-256 SJR (Scopus):0.171 Q4 (Scopus), Индексирана в Scopus; Web of Science, Линк  1 of 1 Download Print Save to PDF Save to list Create bibliography <i>Lecture Notes in Networks and Systems</i> • Volume 652 LNNS, Pages 242 - 256 • 2023 • 8th Future of Information and Computing Conference, FICC 2023 • Virtual, Online • 2 March 2023 through 3 March 2023 • Code 291059 Huber Loss and Neural Networks Application in Property Price Prediction Document type Conference Paper Source type Book Series ISSN 23673370 ISBN 978-303128072-6 DOI 10.1007/978-3-031-28073-3_17 Илиев, Александър И.^{a, b} ; Anand, Amruth^{a, b} Save all to author list ^a SRH Berlin University, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria	Представена в конкурса за академична длъжност „професор“ под №9
10. Илиев, А.И., Panwar M.. Cryptocurrency Forecasting using AI. Proc. of the Interdisciplinary Conference on Mechanics, Computers and Electrics, ICMECE, 2023, ISBN:978-625-6802-90-2 Международно академично издателство, Линк	
11. Илиев, А.И., Mansoor N., Shamli S.. Sports Video Classification using CNN Transfer Learning Model. Proc. of the Interdisciplinary Conference on Mechanics, Computers and Electrics, ICMECE, 2023, ISBN:978-625-6802-90-2 Международно академично издателство, Линк	
12. Илиев, А.И., Raksha A.. Prediction Intervals for Text Analysis through Quantile Regression. Proc. of the Interdisciplinary Conference on Mechanics, Computers and Electrics, ICMECE, 2023, ISBN:978-625-6802-90-2 Международно академично издателство, Линк	
13. Илиев, А., Gunjur Umapathy, S.. Segmentation of Floorplans and Heritage Sites: An Approach to Unbalanced Dataset. Digital Presentation and Preservation of Cultural and Scientific Heritage. Conference Proceedings, 12, Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, 2022, ISSN:1314-4006, DOI:https://doi.org/10.55630/dipp.2022.12.17, 205-216 Без JCR или SJR – индексиран в WoS или Scopus (Web of Science)	

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14. I. Iliev, A., Mote, A.. Visual Emotion Recognition Using Deep Neural Networks. Digital Presentation and Preservation of Cultural and Scientific Heritage. Conference Proceedings, 12, Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, 2022, ISSN:1314-4006, DOI:https://doi.org/10.55630/dipp.2022.12.5, 77-88 Без JCR или SJR – индексирани в WoS или Scopus (Web of Science)  Scopus 1 of 1 Download Print Save to PDF Save to list Create bibliography <i>Digital Presentation and Preservation of Cultural and Scientific Heritage</i> • Open Access • Volume 12, Pages 77 - 88 • 2022 • 12th International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, DiPP 2022 • Burgas • 23 September 2022through 25 September 2022 • Code 183001 Document type Conference Paper • Gold Open Access Source type Conference Proceedings ISSN 13144006 DOI 10.55630/dipp.2022.12.5 Visual Emotion Recognition Using Deep Neural Networks Iliev, Alexander I.^{a, b}  ; <u>Mote, Ameya^a</u>   Save all to author list ^a SRH University Berlin, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria	
15. Ignatova, D., Alexander I. Iliev. Benchmarking for Development of Speed and Power Characteristics. Strategies for Policy in Science and Education, 4, Стратегии на образователната и научната политика, 2022, ISSN:1310-0270, 411-421 Национално академично издателство (CEEOL (Central and Eastern European Online Library)), Link	
16. Iliev, A.I., Mote, A., Manoharan, A. Multi-Lingual Emotion Classification using Convolutional Neural Networks. In: Lirkov, I., Margenov, S. (eds) Large-Scale Scientific Computing. LSSC: International Conference on Large-Scale Scientific Computing, 2021. Lecture Notes in Computer Science, Vol. 13127. Springer, Cham. 2022, ISBN:978-3-030-97548-7, DOI:10.1007/978-3-030-97549-4_52, pp. 456-463. SJR (Scopus):0.320 Q3 (Scopus), Индексирани в Scopus; Web of Science.	Представена в конкурса за академична длъжност „професор“ под №8

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17. Iliev, A.I., Dewli, M., Kalkan, M., Prakash, P.K., Turkar, R. Acoustic Event Detection and Sound Separation for security systems and IoT devices. In: CompSysTech '21: Proceedings of the 22nd International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, 2021, ISBN: 978-145038982-2, DOI:10.1145/3472410.3472441, pp. 34-39. SJR (Scopus):0.232, Индексирана в Scopus; ACM Digital Library, Линк  Scopus 1 of 1 Download Print Save to PDF Save to list Create bibliography ACM International Conference Proceeding Series • Pages 34 - 39 • 18 June 2021 • 22nd International Conference on Computer Systems and Technologies, CompSysTech 2021 • Virtual, Online • 18 June 2021through 19 June 2021 • Code 172500 Document type Conference Paper Source type Conference Proceedings ISBN 978-145038982-2 DOI 10.1145/3472410.3472441 View more	Acoustic event detection and sound separation for security systems and IoT devices Iliev, Alexander^a ; Dewli, Mayank^b ; Kalkan, Muhsin^b ; Prakash Kudva, Preeti^b ; Turkar, Rekha^b Save all to author list ^a Bulgarian Academy of Sciences, Institute of Mathematics and Informatics, Sofia, Bulgaria ^b SRH University Berlin, Charlottenburg, Germany	Представена в конкурса академична длъжност „професор“ под №7
18. Iliev, A.I.. Modern Challenges in Machine Learning and Artificial Intelligence. Digital Presentation and Preservation of Cultural and Scientific Heritage. Conference Proceedings, 11, Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, 2021, ISSN:1314-4006, 033-040, https://doi.org/10.55630/dipp.2021.11.2, Без JCR или SJR – индексирани в WoS или Scopus (Web of Science)		

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 Scopus 1 of 1 Download Print Save to PDF Save to list Create bibliography <i>Digital Presentation and Preservation of Cultural and Scientific Heritage</i> • Volume 11, Pages 215 - 226 • 10 September 2021 • 11th International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, DiPP 2021 • Burgas • 23 September 2021 through 25 September 2021 • Code 173146 Document type Conference Paper Source type Conference Proceedings ISSN 13144006 View more Home automation through hand gestures using ResNet50 and 3D-CNN Raksha, Ankitha^a ✉ ; Rajasekaran, Raghul Krishna^a ✉ ; Francis, Praveen^a ✉ ; Yogeshwara, Suhas^a ✉ ; Iliev, Alexander I.^{a, b} ✉ Save all to author list ^a SRH University Berlin, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria	19. Iliev, A.I., Raksha A., Rajasekaran R.K., Francis P., Yogeshwara S.. Home Automation through Hand Gestures Using ResNet50 and 3D-CNN. Digital Presentation and Preservation of Cultural and Scientific Heritage. Conference Proceedings, 11, Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, 2021, ISSN:1314-4006, 215-226, https://doi.org/10.55630/dipp.2021.11.18, Без JCR или SJR – индексирани в WoS или Scopus (Web of Science)
20. Iliev, A.I., Stanchev, P.L. Smart Services Using Voice and Images. In: Hameurlain, A., Tjoa, A.M., Chbeir, R. (eds) Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVII. Lecture Notes in Computer Science (TLDKS, Vol. 12630). Springer, Berlin, Heidelberg, 2021, DOI:10.1007/978-3-662-62919-2_6, Print ISBN: 978-3-662-62918-5, Online ISBN: 978-3-662-62919-2, pp. 137-154, SJR (Scopus):0.407 Q2 (Scopus), Линк	Представена в конкурса за академична длъжност „професор“ под №6

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21. Ignatova D., Iliev, A. I. Motor Qualities and Their Influence On The Development Of Children. Recreative & Wellness Industry and Niche Tourism. International Scientific Journal for Smart Innovations, Vol.2, Iss.1-2, 16-20 pp., ISSN: 2603-4921,2020, Международно академично издателство (Scopus), Link	
 Scopus 1 of 1 Download Print Save to PDF Save to list Create bibliography <i>Digital Presentation and Preservation of Cultural and Scientific Heritage</i> • Volume 2020-September, Pages 89 - 101 • 2020 • 10th International Conference on Digital Presentation and Preservation of Cultural and Scientific Heritage, DiPP 2020 • Burgas • 24 September 2020through 26 September 2020 • Code 167691 Cross-cultural emotion recognition and comparison using convolutional neural networks Document type Conference Paper Source type Conference Proceedings ISSN 13144006 View more Iliev, Alexander^{a, b} ; Mote, Ameya^a ; Manoharan, Arjun^a Save all to author list ^a SRH University Berlin, Charlottenburg, Germany ^b Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria	Представена в конкурса за академична длъжност „професор“ под №4
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