

СПИСЪК НА ПУБЛИКАЦИИТЕ, с които се участва в конкурса

Научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация

1. Valchkova, N., Tsvetkov, V. *Hybrid Intelligent Systems in Medicine – Automated Medical Station*. In: Tafuri, B., Kumar, S., Joshi, A. (eds.). *Machine and Computing Technologies for Sustainable Development*, eBook ISBN 978-3-032-23515-2, Print ISBN 978-3-032-23514-5, *Lecture Notes in Networks and Systems*, Vol. 1939. Cham: Springer Nature Switzerland AG, 2026, pp. 126–136. https://doi.org/10.1007/978-3-032-23515-2_13 , Глава в международен рецензиран сборник доклади от конференция на Springer Nature, Scopus; SCImago, SJR 0.166, Q4, показатели на серията LNNS
2. Valchkova, N., Tsvetkov, V. *Parametric Analysis of a Collaborative Robotic Mobile Platform for Healthcare Application*. In: *ICT for Intelligent Systems: Proceedings of the 10th International Conference on Information and Communication Technology for Intelligent Systems – ICTIS 2025. Smart Innovation, Systems and Technologies*. Singapore: Springer Nature, ISBN 978-981-95-1360-4; eISBN 978-981-95-1361-1; ISSN 2190-3018; eISSN 2190-3026; 2026, pp. 301–313. DOI https://doi.org/10.1007/978-981-95-1361-1_24 , Springer SIST; Глава в научна поредица, Web of Science и Scopus, SJR 0.157, Q 4, според отчетната 2025 год.
3. Valchkova, N., Zahariev, R., Tsvetkov, V. *Intelligent Control and Sensor Fusion for a Tracked Mobile Collaborative Robot Operating in Unstructured Environments*. In: Arai, K., Lorenz, P. (eds.), *Proceedings of the Computer Vision Conference (CVC) 2026, Volume 4. Lecture Notes in Networks and Systems*, Vol. 2036. Cham: Springer Nature Switzerland AG, 2026., *Machine and Computing Technologies for Sustainable Development*, eBook ISBN 978-3-032-23515-2, Print ISBN 978-3-032-23514-5, pp. 189–203, https://link.springer.com/chapter/10.1007/978-3-032-26214-1_12 Springer LNNS; Доклад от международна конференция, Официална програма на CVC 2026; индексирание, SJR и Q.
4. Valchkova, N., Zahariev, R., Tsvetkov, V., Paunski, Y., Angelov, G. *Power Supply Technologies for Collaborative Service Robots: Characteristics and Comparative Overview*. Paper presented at the *International Conference on Basic Science and Technology – ICBAST 2026*, Konya, Türkiye, 2–5 April 2026. To be published in *The Eurasia Proceedings of Science, Technology, Engineering and Mathematics – EPSTEM*, 2026. eISSN 2602-3199, **in press**. EPSTEM: Индивидуален DOI, том, страници и Scopus EID. Доклад от международна конференция Scopus; SCImago SJR 2025 – 0.159; Q4
5. Dimitrova, M., Valchkova, N. *Feasibility of the Cyber-Physical Nurse*. In: Arai, K. (ed.). *Proceedings of the Tenth International Congress on Information and Communication Technology – ICICT 2025. Lecture Notes in Networks and Systems*, Vol. 1440. Singapore: Springer Nature Singapore, 2025, pp. 127–137. ISBN 978-981-96-9708-3; eISBN 978-981-96-9709-0; ISSN 2367-3370; eISSN 2367-3389. https://doi.org/10.1007/978-981-96-9709-0_9 , Глава в научна поредица Springer LNNS; Web of Science и Scopus, SJR 0.165, Q 3, показатели на серията LNNS.

6.Valchkova, N., Cvetkov, V., Zahariev, R. Control of a Mobile Platform for Collaborative Robots in Healthcare. In: *Proceedings of the 29th World Multi-Conference on Systemics, Cybernetics and Informatics – WMSCI 2025, Orlando, Florida, USA, 9–12 September 2025. Winter Garden, Florida: International Institute of Informatics and Systemics, 2025, pp. 43–50. ISBN 978-1-950492-85-5; ISSN 2771-0947. <https://doi.org/10.54808/WMSCI2025.01.43> , Доклад от международна конференция, Scopus, при потвърден запис/EID, SJR 0.150, Q 4, показатели на серията LNNS.*

7. Valchkova, N., Tsvetkov, V., Optimization of the Energy Subsystem in the Construction of Modern Field Medical Stations. In: Kaiser, M. S., Xie, J., Joshi, A. (eds.). *Intelligent Strategies for ICT: Proceedings of ICTCS 2025, Volume 12. Lecture Notes in Networks and Systems, Vol. 1894. Cham: Springer Nature Switzerland AG, 2026. ISBN 978-3-032-20602-2; eISBN 978-3-032-20603-9; ISSN 2367-3370; eISSN 2367-3389. (Springer LNNS), DOI на сборника: <https://doi.org/10.1007/978-3-032-20603-9>, Глава в международен конференционен сборник, Scopus, EI Compendex, Google Scholar and SpringerLink., SJR/Q – not applicable (book series).*

Научни публикации в нереферирани списания с научно рецензиране или в редактирани колективни томове

8.Nina Valchkova, Mariana Zaharieva, "Analysis of the Kinematic Sensitivity of a Gripper in Robotics.", *Complex Control Systems*, June 2026, Vol.10, Special Issue 2, pp. 266-272, **ISSN 1310-8255**, Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

9.Nina Valchkova, "Methodology for Optimizing the Parameters of a Collaborative Service Robot Powered by a Hydrogen Fuel Cell.", *Complex Control Systems*, June 2026, Vol.10, Special Issue 2, pp. 289-296, **ISSN 1310-8255**. Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

10. Nina Valchkova, An Approach to Developing an Optimal Model of the Mobile Platform of a Collaborative Robot.", *Complex Control Systems*, June 2026, Vol.10, Special Issue 2, pp. 125-131, **ISSN 1310-8255** , <https://ir.bas.bg/ccs/2025/09.2/>, Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

11. Valchkova, N. Implementation of Collaborative Robots in Modern Field Medical Stations. *Complex Control Systems*, June 2026, Vol.10, Special Issue 2, pp. 21-26, **ISSN 1310-8255; eISSN 2603-4697. <https://ir.bas.bg/ccs/2025/09.2/>**, Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

12.Roman Zahariev, Nina Valchkova, "Analysis of the Characteristics of the Power Types of Collaborative Service Robots.", *Complex Control Systems*, June 2026, Vol.10, Special Issue 2, pp. 103-106, **ISSN 1310-8255**, Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

13.Valchkova, N., Zahariev, R., Angelov, G., Paunski, Y., Varbanov, I. Мобилен колаборативен робот с висока проходимост за антитерористични операции [Off-Road Mobile Collaborative Robot for Anti-Terrorist Operations]. *Морски научен форум*, 2025, Vol. 10, No. 2, pp. 129–137. **ISSN 1310-9278; eISSN 3033-1889. <https://doi.org/10.63662/5stkwe27>** , Статия в научно списание -

Националния референтен списък на съвременните български научни издания с научно рецензиране.

14. Tsvetkov, V., Valchkova, N., Zahariev, R. *Sensory System for Controlling Robot's Motion. Complex Control Systems*, 2025, Vol. 9, No. 2. Sofia: Institute of Robotics, Bulgarian Academy of Sciences. **ISSN 1310-8255; eISSN 2603-4697, 2024.** <https://robomed.bg/wp-content/uploads/2024/11/Tsvetkov-V-N-Valchkova-R.Zahariev-Sensory-System-for-Controlling-Robots-Motion.pdf> , Статия в научно списание - Националния референтен списък на съвременните български научни издания с научно рецензиране

15. Valchkova, N., Zahariev, R. *Off-Road Mobile Collaborative Robot for Healthcare. In: Proceedings of the 5th Winter IFSA Conference on Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2025)*, 19-21 February 2025, Granada, Spain, Edited by Prof., Dr. Sergey Y. Yurish, International Frequency Sensor Association, Barcelona, Spain, pp. 167–171. **ISSN: 2938-4796, ISBN: 978-84-09-69171-5, BN-20250211,** [file:///C:/Users/IR/Downloads/ARCI_2025_Proceedings%20\(3\).pdf](file:///C:/Users/IR/Downloads/ARCI_2025_Proceedings%20(3).pdf) , Доклад от международна конференция –

16. Zahariev, R., Valchkova, N., Angelov, G., Paunski, Y. *Design of Mobile Service Robots like Cyber Physical Systems for Pedagogical Rehabilitation in Special Education. In: Proceedings of the Basque Conference on Cyber-Physical Systems and Artificial Intelligence. Ed. Manuel Graña. 2022, pp. 261–272. DOI: 10.5281/zenodo.6574965* , Доклад от международна конференция ..

17. Zahariev, R., Valchkova, N., Angelov, G., Paunski, Y., *Study of The Ethics in The Implementation of Collaborative Robots in The Training of Disadvantaged People, In: Proceedings of the Basque Conference on Cyber-Physical Systems and Artificial Intelligence. Ed. Manuel Graña. 2022, pp. 261–272. DOI: 10.5281/zenodo.6574965* , Доклад от международна конференция