

# СПИСЪК НА ПУБЛИКАЦИИТЕ

на доц. д-р инж. Снежанка Петрова Костова, представени в конкурса за професор към секция ИРСУ на Института по роботика при БАН

## 2002 г.

1. Kostova, S. Pole-assignment for controllable positive linear discrete time systems. *Systems Science* 28.2 (2002): 41-50, ISSN: 01371223. Scopus, SJR: 0.188. [Link](#)

## 2003 г.

2. Kostova, Snezhana P. A PLDS model of pollution in connected water reservoirs. *Positive Systems: Proceedings of the First Multidisciplinary International Symposium on Positive Systems: Theory and Applications (POSTA 2003)*, Rome, Italy, August 28–30, 2003. Berlin, Heidelberg: Springer Berlin Heidelberg, 2004. Web of Science, IF= 0.269, Q4. [Link](#)

## 2008 г.

3. S. Kostova and N. Georgieva, Quantitative evaluation of external costs for decision support, *Dialogue - E-Journal*, ISSN: 1311-9206, issue: 02/2008, pages: 1-14. (Bulgarian language).

## 2010г.

4. Kostova, S. (2010). Maximization of stability radii of PLDs by linear feedback in case of monomial control matrix and existence of zero solution. *Comptes Rendus de l'Academie Bulgare des Sciences*, 63(9), 1341-1348, IF=0.3, Q4, Web of Science; SJR:0.182, Q3, Scopus. [Link](#)

## 2013 г.

5. **Kostova, S.**, Ivanov, I., Imsland, L., Georgieva, N. Infinite horizon LQR problem of linear discrete time positive systems. *Proceeding of the Bulgarian Academy of Sciences*, 66, 8, 2013, pp. 1167-1174. ISSN: 1310-1331; **SJR: 0.182, Q3**, Scopus; **IF: 0.3**, Web of Science. [Link](#)

## 2014 г.

6. Cantó, B., Cantó, R., & **Kostova, S.** (2014). Stabilization of Positive Linear Discrete-Time Systems by Using a Brauer's Theorem. *The Scientific World Journal*, 2014(1), 856356. ISSN 2356 – 6140; **SJR: 0.526**, Scopus; **IF = 1.3, Q2**, Web of science. [Link](#)

## 2015 г.

7. **Kostova, S.**, Imsland, L., Ivanov, I. LQR problem of linear discrete time systems with nonnegative state constraints. AIP Conference Proceedings, 1684, American Institute of Physics, 2015, ISSN: 0094-243X. **SJR: 0.164, Q4**, Scopus, Web of Science. [Link](#)

## 2016 г.

8. Dimitrova, M., Lekova, A., **Kostova, S.**, Roumenin, C., Cherneva, M., Krastev, A., Chavdarov, I. A Multi-Domain Approach to Design of CPS in Special Education: Issues of Evaluation and Adaptation. Proceedings of the 5th Workshop of the MPM4CPS COST Action, November 24-25, **2016**, Malaga, Spain, 196, 2016, 196-205.
9. Kostova, S. (**2016**). Linear Quadratic Regulator Problem for Positive Systems with Polyhedral Cone Constraints. *International Journal of Mathematical and Computational Methods*, 1, IARAS, ISSN: 2367-895X, 372-377. [Link](#)

## 2018г.

10. Lekova, A., Dimitrova, M., **Kostova, S.**, Ozaeta, L., Bouattane, O. BCI for assessing the emotional and cognitive skills of children with special educational needs. 5th IEEE Congress on Information Science and Technology, **2018**, 400-403. Scopus, Web of Science. Electronic ISSN: 2327-1884; DOI: 10.1109/CIST.2018.8596571. [Link](#)
11. **Kostova, S.**, Dimitrova, M. (2018) Some aspects of modelling CPS for pedagogical rehabilitation in special education. *Complex Control Systems*, 1, ISSN 1310-8255, pp. 1-5.

## 2019г.

12. Pachidis, T., Vrochidou, E., Kaburlasos, V. G., **Kostova, S.**, Bonković, M., & Papić, V. (2019). Social robotics in education: State-of-the-art and directions. In Advances in Service and Industrial Robotics: Proceedings of the 27th International Conference on Robotics in Alpe-Adria Danube Region (RAAD 2018), pp. 689-700, ISSN 2211-0984. Springer International Publishing. **SJR: 0.166, Q4**, Scopus; Web of Science. [Link](#)
13. Pachidis, T, Vrochidou, E., Papadopoulou, C.I., Kaburlasos, V.G., **Kostova, S.**, Bonković, M., Papić, V. Integrating Robotics In Education and Vice Versa; Shifting From Blackboard To Keyboard. *International Journal of Mechanics and Control*, 20, 1, Levrotto and Bella, **2019**, ISSN: 1590-8844, 53-69. Scopus, **SJR: 0.337, Q3**. [Link](#)
14. Lekova, A., Chavdarov, I., Naydenov, B., Krastev, A., **Kostova, S.** Brain-inspired IoT Controlled Walking Robot Big-Foot. *ASTES Advances in Science, Technology*

*and Engineering Systems Journal*, 4, 3, pp. 220-226, 2019. ISSN: 2415-6698, SJR: 0188, Q4, Scopus. [Link](#)

15. Lekova, A., Tanev, T., Vassileva-Aleksandrova, V., **Kostova, S.**, Dachkinov, P., & Bouattane, O. (2019). Social robots for reinforcing attention and forming emotional knowledge of children with special educational needs. *International Journal of Information Science and Technology*, 3(6), 26-39, ISSN: 2550-5114. [Link](#)

#### **2020г.**

16. Musić, J., Bonković, M., Kružić, S., Marasović, T., Papić, V., **Kostova, S.**, Dimitrova, M., Saeva, S., Zamfirov, M., Kaburlasos, V., Vrochidou, E., Papakostas, G., & Pachidis, T. (2020). Robotics and information technologies in education: four countries from Alpe-Adria-Danube Region survey. *International Journal of Technology and Design Education*, 32, 749–771, Springer. IF = 2.3, Q1 for Education SJR=0,841 (Scopus), Web of Science Core Collection (WSCC), Science Citation Index Expanded (SCI-EXPANDED), Social Sciences Citation Index (SSCI). [Link](#)
17. Lekova A, Tanev T, **Kostova S**, Kaburlasos V. Lightweight framework for interconnecting virtual and real things via Node-RED. Industry-4.0, 5, 5, Scientific Technical Union of Mechanical Engineering "Industry-4.0", 2020, ISSN: 2534-8582, 202-205. [Link](#)
18. Dimitrova, M., **Kostova, S.**, Lekova, A., Vrochidou, E., Chavdarov, I., Krastev, A., Botsova, R., Andreeva, A., Stancheva-Popkostadinova, V., & Ozaeta, L. (2020). Cyber-physical systems for pedagogical rehabilitation from an inclusive education perspective. *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, 11 (2Sup1), 186-207, IF = 0.6, Q4 Web of Science Core Collection (WSCC) Emerging Sources Citation Index (ESCI). [Link](#)
19. Kostova, S., Chavdarov, I., Lekova, A., Dimitrova, M., & Krastev, A. (2020). Acquiring Digital Skills and New Qualifications by Introducing Modern Technologies in Education. *Complex Control Systems*, Vol. 2, No. 1, pp. 7-13, ISSN 1310-8255 .

#### **2022 г.**

20. Lekova A, Andreeva A, Simonska M, Tanev T, **Kostova S.** A system for speech and language therapy with a potential to work in the IoT. ACM International Conference Proceeding Series, CompSysTech 2022 Proceedings, (2022). Association for Computing Machinery (ACM) New York, NY 10019-7434, USA, 2022, ISBN: 978-145039644-8, 119-124. Q4, SJR (Scopus):0.232. [Link](#)
21. **Kostova S.**, Lekova A., Tanev T., Andreeva A., Mitrouchev P. and Simonska M. Cyber- Physical System for language therapy for children with communication disorders. Zenodo, 2022, DOI:10.5281/zenodo.6569822. [Link](#)

- 22.** Lekova A., Tsvetkova P., Tanev T., Mitrouchev P. and **Kostova S.** Making humanoid robots teaching assistants by using natural language processing (NLP) cloud-based services. *Journal of Mechatronics and Artificial Intelligence in Engineering*, 3, 1, Extrica, 2022. [Link](#)

**2023г.**

- 23.** Tanio Tanev, Pancho Dachkinov, Tony Valayil, Maya Dimitrova, **Snezhana Kostova**, Anna Lekova. Implementation of robotic and assistive technologies in the patient-centered physical rehabilitation. *Journal of the Technical University of Gabrovo*, Vol. 66, Technical University of Gabrovo, **2023**, ISSN: 1310-6686, 11-15.

**2024 г.**

- 24.** Kostova, A. Lekova and P. Tsvetkova. The impact of assistive technologies in educational settings for individuals with neurodevelopmental disorders: a national pilot study. InPACT conference, 2024. ISBN: 978-989-35106-6-7, pp. 572-576.

- 25.** Dimitrova M., **Kostova S.**, Chavdarov I., Krastev A., Chehlarova N. and Madzharov A. Psychosocial and Psychophysical Aspects of the Interaction with Humanoid Robots: Implications for Education. ACM International Conference Proceeding Series, CompSysTech 2024 Proceedings, (2024). Association for Computing Machinery (ACM) New York. DOI: 10.1145/3674912.3674951; ISBN: 979-8-4007-1684-3. (in print)

- 26.** **Kostova S.** and Lekova A. Social Humanoid Robots as Assistive Technology for individuals with ASD – assessment of good practices. ACM International Conference Proceeding Series, CompSysTech 2024 Proceedings, (2024). Association for Computing Machinery (ACM) New York. DOI: 10.1145/3674912.3674951; ISBN: 979-8-4007-1684-3. (in print)

Подпись:

/ Снежанка Костова /