

. . . , . . .

, 15, 49005, ; e-mail: skh@ukr.net, mix5236@ukr.net

() ().

1. 2003. 768 . . 4- . . .
2. : , 1968. 192 .
3. Zhou K., Doyle J.C., Glover K. Robust and optimal Control. NJ : Prentice-Hall, 1996. 596 p.
4. Alpatov A., Khoroshylov S., Bombardelli C. Relative Control of an Ion Beam Shepherd Satellite Using the Impulse Compensation Thruster. Acta Astronautica. 2018. Vol. 151. P. 543–554. <https://doi.org/10.1016/j.actaastro.2018.06.056>
5. Astrom K. J., Wittenmark B. Adaptive Control. MA : Addison-Wesley, 1995. 580 p.
6. . 2011. . 3. .117–125.
7. Sutton R. S., Barto A. G. Reinforcement learning: an introduction. MIT press, 1998. 338 p.
8. Gullapalli V. Skillful control under uncertainty via direct reinforcement learning. Reinforcement Learning and Robotics. 1995. Vol. 15(4). P. 237–246. [https://doi.org/10.1016/0921-8890\(95\)00006-2](https://doi.org/10.1016/0921-8890(95)00006-2)
9. Kober J., Bagnell J. A., and Peters J. Reinforcement learning in robotics: A survey. International Journal of Robotic Research. 2013. Vol. 32(11). P. 1238–1274. <https://doi.org/10.1177/0278364913495721>
10. Theodorou E., Buchli J., Schaal S. Reinforcement learning of motor skills in high dimensions. In International Conference on Robotics and Automation (ICRA), 2010. . 2397–2403. <https://doi.org/10.1109/ROBOT.2010.5509336>
11. Endo G., Morimoto J., Matsubara T., Nakanishi J., Cheng G. Learning CPG-based biped locomotion with a policy gradient method: Application to a humanoid robot. International Journal of Robotic Research. 2008. Vol. 27(2). P. 213–228. <https://doi.org/10.1177/0278364907084980>
12. Ng A. Y., Kim H. J., Jordan M. I., Sastry S. Inverted autonomous helicopter flight via reinforcement learning. In International Symposium on Experimental Robotics, 2004. . 363–372. https://doi.org/10.1007/11552246_35
13. Juang J.-N. Applied System Identification. N.J: Prentice Hall, Upper Saddle River, 1994. 394 p.
14. Seeger M. Gaussian Processes for Machine Learning. International Journal of Neural Systems. 2004. Vol. 14 (2).P. 69–104. <https://doi.org/10.1142/S0129065704001899>

15. *Berkenkamp F., Turchetta M., Schoellig A. P., Krause A.* Safe Model-based Reinforcement Learning with Stability Guarantees, 31st Conference on Neural Information Processing Systems, 2017. . 908–919.

28.10.2019,
12.11.2019