

Instruction for Authors

SCOPE

Paladyn. Journal of Behavioral Robotics is a fully peer-reviewed, open access, electronic journal publishing works of wide significance, originality and relevance, on topics broadly related to neuronally and psychologically inspired robots and other behaving autonomous systems. The journal focuses, in particular, on approaches to robotics that draw on analogies between autonomous robotics and embodied cognition, cognitive development, and the emergence of cognition and communication from social behavior. However, we accept both theoretical and empirical contributions in all subfields of robotics as long as they contribute in a broad sense to the core theme (see the scope listed below).

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Scope of the journal:

- cognitive robotics
- developmental robotics
- affective robotics
- evolutionary robotics, genetic algorithms
- artificial life, artificial intelligence
- assistance robotics
- visual cognition, computer vision
- neurally inspired robotics, animats
- neural networks, neural computation
- humanoids
- human-robot interaction, symbiotic robots
- machine learning, adaptation and imitation
- development of language, speech recognition
- emergent behaviors of mobile robots
- multi-robot systems, swarm robotics, robot self-organization
- computer-brain interfaces
- decision-making in autonomous robots

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(Odell J. C., April 1970, Process for batch culturing, U.S. patent 484,363,770),

(Smith J., 20 June 1999, Australian Patent Office),

... from the GenBank database (<http://www.ncbi.nlm.nih.gov/Genbank/index.html>),

... using ABC software (version 2.2; Department of Microbiology, State University, <http://www.stu.micro>),

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Published Papers

[1] T. Hellström and S. Bensch, "Understandable robots - What, Why, and How," *J. Behav. Robot.*, vol. 9, pp. 110-123, 2018.

Accepted Papers

[2] D. Ghiglino, C. Willemse, D. De Tommaso, F. Bossi, and Agnieszka Wykowska, "At first sight: robots' subtle eye movement parameters affect human attentional engagement, spontaneous attunement and perceived human-likeness," *J. Behav. Robot.* (in press), DOI: 10.1515/pjbr-2020-0004.

Electronic Journal Articles

[3] M.S. Dionne and D.S. Schneider, "Screening the immune system," *Genome Biology*. Available: <http://genomebiology.com/2002/3/4/reviews/1010>.

Books and book chapters

[4] J. Kroff, *Cognitive Robotics: Intelligent Robotic Systems*, Willford Press, 2016

[5] R. de Kleijn, G. Kachergis, B. Hommel, "On the Crossroads of Cognitive Psychology and Cognitive Robotics," in *Cognitive Robotics*, H. Samani (Ed.), CRC Press, 2015.

[6] A. Pereira, I. Leite, S. Mascarenhas, C. Martinho, and A. Paiva, "Using empathy to improve human-robot relationships," in *Human-Robot Personal Relationships* (Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering), M.H. Lamers and F.J. Verbeek (Eds.), Springer Press, 2010.

Theses

[7] J. Kowalski, "Integration of sensor inputs in humanoid robot Paladyn," PhD thesis, Wrocław University, Wrocław, Poland, 2008.

Conference proceedings

[8] J. Smith and R. Black, "Self-organization of a group of robots," in *Proc. Int. Robot. Conf.* (2007, Warszawa, Poland), Versita, Warsaw, 2008, pp. 200-214.

Newspaper articles

[9] A. Sherwin, "The post-genomic era," *The Times* (13 July, 2007), pp. 1-2.

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