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AUTONOMOUS ROBOTS, From Biological Inspiration to Implementation and Control, by G.A. Bekey, MIT Press, 2005, xv + 577 pp., index, ISBN 0-262-02578-7, 25 pages of references (Hb. £35.95) - Volume 24 Issue 2

AUTONOMOUS ROBOTS, From Biological Inspiration to ...

Autonomous Robot Biological Neural Network Reticular Neuron Visuomotor Coordination Frog Brain These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

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One key approach to the development of such intelligent and autonomous robots draws inspiration from the behavior demonstration of biological systems. In fact, using this approach, a number of new application areas have recently received significant interest from the robotics community, including rehabilitation robots, service robots, medical robots, and entertainment robots.

Biologically Inspired and Rehabilitation Robotics 2020 ...

Robotics researchers increasingly agree that ideas from biology and self-organization can strongly benefit the design of autonomous robots. Biological organisms have evolved to perform and survive in a world characterized by rapid changes, high uncertainty, indefinite richness, and limited availability of information. Industrial robots, in contrast, operate in highly controlled environments

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Living systems can be considered the prototypes of autonomous systems, and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics. He also discusses robot control issues and the design of control architectures.

Autonomous Robots: From Biological Inspiration To ...

Autonomous Robots: From Biological Inspiration to Implementation and Control. George A. Bekey. (2005, MIT Press.) Hardcover, 577 pages. ISBN 0262025787

Autonomous Robots: From Biological Inspiration to ...

There are several open problems in autonomous robotics which are special to the field rather than being a part of the general pursuit of AI. According to George A. Bekey's *Autonomous Robots: From Biological Inspiration to Implementation and Control*, problems include things such as making sure the robot is able to function correctly and not run into obstacles autonomously.

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Autonomous robot - Wikipedia

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