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Autonomous Robots: From Biological Inspiration to Implementation and Control (Intelligent Robotics and Autonomous Agents series): Bekey, George A.: 9780262534185: Amazon.com: Books. See All Buying Options.

Autonomous Robots: From Biological Inspiration to ...

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.

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Autonomous Robots: From Biological Inspiration to Implementation and Control. Autonomous Robots. : Autonomous robots are intelligent machines capable of performing tasks in the world by themselves,...

Autonomous Robots: From Biological Inspiration to ...

Autonomous robots - from biological inspiration to implementation and control. Intelligent robotics and…. Autonomous robots are intelligent machines capable of performing tasks in the world by themselves, without explicit human control. Examples range from autonomous helicopters to Roomba, the robot vacuum cleaner.

[PDF] 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. 1 A Milestone in the History of Modern Robotics While robotics research has achieved considerable success in the development of rapid, precise, and

Autonomous Robots: From Biological Inspiration to ...

Description. Intelligent robots will soon be ready to serve in our home, hospital, office, and outdoors. 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 ...

Autonomous Robots: From Biological Inspiration to Implementation and Control (Intelligent Robotics and Autonomous Agents series)

Amazon.com: Customer reviews: Autonomous Robots: From ...
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.

Autonomous robot - Wikipedia
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...

Self-Organization, Embodiment, and Biologically Inspired ...
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Liu and Hu: Biological Inspiration: From Carangiform Fish to Multi-Joint Robotic Fish 45 5.2 Cruise straight experiments For the cruise straight swim pattern, the same ki- nematic parameters as in Fig. 9 were applied on G9 robotic fish apart from ?, which is 2.6?, i.e., the tail flapping frequency is 1.3 Hz which is an average flap- ping ...

Biological Inspiration: From Carangiform Fish to Multi ...
In designing the robots the similarities to animal bodies (insects, quadrupeds, humans) are often utilized. Also the actuators are designed using biological inspiration (especially the artificial muscles which are recently becoming more popular). The works on motion synthesis still do not profit enough from the sciences of biology and neurology.

Biological inspiration used for robots motion synthesis ...
RASC’s areas of robotics research include humanoid robotics, socially assistive robotics, distributed robotics, sensor-actuator networks, aerial robotics, marine robotics, human-robot interaction, rehabilitation robotics, robot learning, educational robotics, and space robotics. The majority of these efforts are interdisciplinary in nature, involving biological inspiration and a variety of application domains ranging from medicine to art.

Robots – Robotics and Autonomous Systems Center
Fundamental issues associated with autonomous robot control. Emphasizes biological perspective that forms the basis of many current developments in robotics. Textbook(s) G.A. Bekey, Autonomous Robots: From Biological Inspiration to Implementation and Control, MIT Press, 2005. ISBN 0262025787, ISBN 978-0262025782 (required)

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