

Biologically Inspired Intelligent Robots



Yoseph Bar-Cohen
Cynthia Breazeal

Biologically Inspired Intelligent Robots Spie Vol Pm122
Spie Press Monograph Pm1

Yunhui Liu,Dong Sun



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Biologically Inspired Intelligent Robots Yoseph Bar-Cohen, Cynthia L. Breazeal, 2003 The multidisciplinary issues involved in the development of biologically inspired intelligent robots include materials actuators sensors structures functionality control intelligence and autonomy This book reviews various aspects ranging from the biological model to the vision for the future

Biologically Inspired Robotics Yunhui Liu, Dong Sun, 2017-12-19 Robotic engineering inspired by biology biomimetics has many potential applications robot snakes can be used for rescue operations in disasters snake like endoscopes can be used in medical diagnosis and artificial muscles can replace damaged muscles to recover the motor functions of human limbs Conversely the application of robotics technology to our understanding of biological systems and behaviors biorobotic modeling and analysis provides unique research opportunities robotic manipulation technology with optical tweezers can be used to study the cell mechanics of human red blood cells a surface electromyography sensing system can help us identify the relation between muscle forces and hand movements and mathematical models of brain circuitry may help us understand how the cerebellum achieves movement control Biologically Inspired Robotics contains cutting edge material considerably expanded and with additional analysis from the 2009 IEEE International Conference on Robotics and Biomimetics ROBIO These 16 chapters cover both biomimetics and biorobotic modeling analysis taking readers through an exploration of biologically inspired robot design and control micro nano bio robotic systems biological measurement and actuation and applications of robotics technology to biological problems Contributors examine a wide range of topics including A method for controlling the motion of a robotic snake The design of a bionic fitness cycle inspired by the jaguar The use of autonomous robotic fish to detect pollution A noninvasive brain activity scanning method using a hybrid sensor A rehabilitation system for recovering motor function in human hands after injury Human like robotic eye and head movements in human machine interactions A state of the art resource for graduate students and researchers

Biologically Inspired Approaches for Locomotion, Anomaly Detection and Reconfiguration for Walking Robots Bojan Jakimovski, 2011-08-20 The increasing presence of mobile robots in our everyday lives introduces the requirements for their intelligent and autonomous features Therefore the next generation of mobile robots should be more self capable in respect to increasing of their functionality in unforeseen situations decreasing of the human involvement in their everyday operations and their maintenance being robust fault tolerant and reliable in their operation Although mobile robotic systems have been a topic of research for decades and aside the technology improvements nowadays the subject on how to program and making them more autonomous in their operations is still an open field for research Applying bio inspired organic approaches in robotics domain is one of the methodologies that are considered that would help on making the robots more autonomous and self capable i e having properties such as self reconfiguration self adaptation self optimization etc In this book several novel biologically inspired approaches for walking robots multi legged and humanoid domain are introduced

and elaborated They are related to self organized and self stabilized robot walking anomaly detection within robot systems using self adaptation and mitigating the faulty robot conditions by self reconfiguration of a multi legged walking robot The approaches presented have been practically evaluated in various test scenarios the results from the experiments are discussed in details and their practical usefulness is validated

Biologically Inspired Robot Behavior Engineering

Richard J. Duro, Jose Santos, Manuel Grana, 2013-06-05 The book presents an overview of current research on biologically inspired autonomous robotics from the perspective of some of the most relevant researchers in this area The book crosses several boundaries in the field of robotics and the closely related field of artificial life The key aim throughout the book is to obtain autonomy at different levels From the basic motor behavior in some exotic robot architectures right through to the planning of complex behaviors or the evolution of robot control structures the book explores different degrees and definitions of autonomous behavior These behaviors are supported by a wide variety of modeling techniques structural grammars neural networks and fuzzy logic and evolution underlies many of the development processes Thus this text can be used by scientists and students interested in these areas and provides a general view of the field for a more general audience

Biologically Inspired Robotics Yunhui Liu, 2017 Robotic engineering inspired by biology biomimetics has many potential applications robot snakes can be used for rescue operations in disasters snake like endoscopes can be used in medical diagnosis and artificial muscles can replace damaged muscles to recover the motor functions of human limbs Conversely the application of robotics technology to our understanding of biological systems and behaviors biorobotic modeling and analysis provides unique research opportunities robotic manipulation technology with optical tweezers can be used to study the cell mechanics of human red blood cells a surface electromyography sensing system can help us identify the relation between muscle forces and hand movements and mathematical models of brain circuitry may help us understand how the cerebellum achieves movement control *Biologically Inspired Robotics* contains cutting edge material considerably expanded and with additional analysis from the 2009 IEEE International Conference on Robotics and Biomimetics ROBIO These 16 chapters cover both biomimetics and biorobotic modeling analysis taking readers through an exploration of biologically inspired robot design and control micro nano bio robotic systems biological measurement and actuation and applications of robotics technology to biological problems Contributors examine a wide range of topics including A method for controlling the motion of a robotic snake The design of a bionic fitness cycle inspired by the jaguar The use of autonomous robotic fish to detect pollution A noninvasive brain activity scanning method using a hybrid sensor A rehabilitation system for recovering motor function in human hands after injury Human like robotic eye and head movements in human machine interactions A state of the art resource for graduate students and researchers in th

The "Hand-eye-brain" System of Intelligent Robot

Hong Qiao, Chao Ma, Rui Li, 2021-09-09 This book reports the new results of intelligent robot with hand eye brain from the interdisciplinary perspective of information science and neuroscience It collects novel research ideas on attractive region in

environment ARIE intrinsic variable preserving manifold learning IVPML and biologically inspired visual cognition which are theoretically important but challenging to develop the intelligent robot Furthermore the book offers new thoughts on the possible future development of human inspired robotics with vivid illustrations The book is useful for researchers R D engineers and graduate students working on intelligent robots

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