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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.

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Autonomous Robots: From Biological Inspiration to Implementation and Control. by George A. Bekey, MIT Press, 560 pp., \$55.00, ISBN 0-262-02578-7. Simon Parsons (a1)

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Autonomous robots : from biological inspiration to implementation and control. [George A Bekey] -- "In this book, George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals.

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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. Energy autonomy and foraging

## **Autonomous robot - Wikipedia**

Autonomous Robots: From Biological Inspiration to Implementation and Control (Intelligent Robotics and Autonomous Agents series) Bekey, George A. Published by A Bradford Book (2005)

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implementation and control: George A. Bekey A number of articles or web resources will be given as handouts or linked from the class' web site. Some of these articles will constitute mandatory reading, while others will be selected by each student according to his or her background and interest.

## **Bio-inspired Locomotion | Course Web Pages**

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)

## **ECE Course Syllabus | School of Electrical and Computer**

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Additional Physical Format: Autonomous Robots [Texte imprimé] / George A. Bekey. Cambridge, MA, USA : MIT Press, 2005 1 vol. (593 p.) 978-0-262-02578-2

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1.4.5 Biomimetic Robots 1.4.5.1 Sensing, Actuation, and Power

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1.4.5.2 Low-Level Control and Behavior 1.4.5.3 Cognitive Modeling 1.4.6 Applications 1.5 Summary and Outlook 1.6 Acknowledgement 1.7 References Chapter 2: Biological Inspiration For Muscle Like Actuators of Robots

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