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Softer, Safer Meet

the Xenobot, the

World's First-Ever

"Living" Robot

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~~How Autonomous
Robots Are
Changing~~

~~Construction RI~~

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with Matt Travers

and Grant Imahara

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electronics-How

dielectric

elastomers will

change robotic

development-From

Razor Clams to

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Mathematics

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Inspired Design

Biologically

Inspired Mobile

Robot Vision

Localization

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Autonomous

Biologically-
inspired Climbing

Robot: 'CROC

Senior' takes a few
steps Robotics

Lecture 1 part 1

(Introduction to

robotics) ~~How to~~

~~Make a Mini Robot~~

~~bug~~ AMAZING

ROBOTIC ANIMALS

YOU MUST SEE!

The \$3000 Sony

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Aibo Robot Dog A

Swarm of One

Thousand Robots

These Self-Aware

Robots Are

Redefining

Consciousness 5

Fastest Robots In

The World

Presenting Oscar,

The Modular Body

It's not you. Phones

are designed to be

addicting. This Is

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The Only Place

Antimatter Can

Survive In The

Universe Mouser

Electronics

Warehouse Tour

with Grant Imahara

The Age of Soft

Robots Is Coming,

Here's How They

Work Robot Snake

- Serpentrionic by

Thinkbotics Labs

Innovative MIT

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Biological Cells The
world is poorly
designed. But
copying nature
helps. Using the
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Vytas SunSpiral -

SUPERball: A

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Planetary

Exploration Firefly

synchronization of

robot's walking gait

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Bekey, George A.:
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Living systems can

be considered the

prototypes of

autonomous

systems, and

Bekey explores the

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inspiration that

forms the basis of

many recent

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developments in robotics. He also discusses robot control issues and the design of control architectures.

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Autonomous

Robots. :

Autonomous robots
are intelligent
machines capable
of performing tasks
in the world by
themselves,...

Autonomous

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Robots: From

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Inspiration to ...

Autonomous robots

- from biological

inspiration to

implementation

and control.

Intelligent robotics

and... Autonomous

robots are

intelligent

machines capable

of performing tasks

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Autonomous

Robots From

themselves,

without explicit

human control.

Examples range

from autonomous

helicopters to

Roomba, the robot

vacuum cleaner.

Autonomous

[PDF] Autonomous

robots - from

biological

inspiration to ...

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Autonomous

Robots From

Biological

Inspiration To

Implementation

And Control.

George A. Bekey.

(2005, MIT Press.)

Hardcover, 577

pages. ISBN

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Milestone in the

History of Modern

Robotics While

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Autonomous

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

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Robots From
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

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number of new application areas have recently received significant interest from the robotics community, including rehabilitation robots, service robots, medical robots, and entertainment robots.

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Inspired and
Rehabilitation To
Robotics 2020 ...

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and Control
(Intelligent
Robotics and
Autonomous

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[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.

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According to
George A. Bekey's

Autonomous
Robots: From
Biological
Inspiration To

Implementation
Inspiration to
Implementation
and Control,

problems include
things such as
making sure the
robot is able to
function correctly
and not run into

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Autonomous

obstacles From
autonomously.

Biological

Autonomous robot

- Wikipedia

Robotics

researchers

increasingly agree

that ideas from

biology and self-

organization can

strongly benefit the

design of

autonomous

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Autonomous

Robots From
Biological
organisms have
evolved to perform
and survive...

Implementation

Self-Organization,
Embodiment, and
Biologically
Inspired ...

Living systems can
be considered the
prototypes of
autonomous
systems, and

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Autonomous

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.

Intelligent Robotics

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and Autonomous

Agents Ser...

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Liu and Hu:

Biological

Inspiration: From

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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 ω ,
which is 2.6π , i.e.,
the tail flapping

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Autonomous

frequency is 1.3 Hz

which is an
average flap- ping

Inspiration To

Implementation

Biological

Inspiration: From

Carangiform Fish to

Multi-robotics And

In designing the

robots the

similarities to

animal bodies

(insects,

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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

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Robots From
not profit enough
from the sciences
Biological
of biology and
Inspiration To
neurology.

Implementation

Biological
And Control
inspiration used for
Intelligent
robots motion
Robotics... And

Autonomous
RASC's areas of
robotics research
include humanoid
robotics, socially
assistive robotics,

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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

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Robots are efforts are interdisciplinary in nature, involving biological inspiration to implementation and a variety of application domains ranging from medicine to art.

Robots – Robotics
and Autonomous
Systems Center

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Autonomous

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,
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