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Robot Origami: Robot self-folds, walks, and completes tasks

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Why Machines That Bend Are Better

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Self-folded Soft Robotic Structures

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Toward self-folding robots - Headline  
Science Self-folding robots

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Steering of a Robotic Fish using  
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and Foldable Hexapod Robot Inspired  
by Origami ~~Woodworking idea for~~

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Fastest Robots In The World 3D

PRINTING Super Mario - How  
SMOOTH can we get him?

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Part 1: Folding CSGOG - A book !!~~



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Build your own paper robots ~~Pop-up~~  
~~Fabrication of the Harvard Monolithic~~  
~~Bee (Möbee) Folding Robot~~

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Laundry-Folding Robot from UC  
Berkeley Foldable Joints For Foldable  
Robots

Foldable Joints for Foldable Robots 3  
R N s r (a) Hinge joint h R w d N c (b)

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Prismatic joint R N s ir o (c) Pivot joint  
Fig.2. Sample fold patterns and folded states for three basic joint types with input parameters indicated The folds in a fold pattern divide the original polygon Pinto a set of smaller polygons that overlap only at the fold

...

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Foldable Joints for Foldable Robots -  
Research | MIT CSAIL

In this paper, we introduce fold patterns for three basic joints commonly used in robots, and we show how the patterns can be changed to accommodate user-

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specified ranges of motion. The joints are composed with each other to produce joints with higher degrees of freedom and with rigid bodies to produce entire foldable linkage mechanisms.

Foldable Joints for Foldable Robots |

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SpringerLink

We have composed them into joints with higher degrees of freedom and into foldable mechanisms and found that they achieve the expected kinematics. We have also added actuators and control circuitry to our joints and mechanisms, showing that

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It is possible to print and fold entire robots with many different kinematics using a uniform process.

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Journal of ...

Foldable Joints for Foldable Robots 3  
R N s r (a) Hinge joint h R w d N c (b)

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Prismatic joint R N s ir o (c) Pivot joint  
Fig.2. Sample fold patterns and folded states for three basic joint types with input parameters indicated structure formed when all folds in the fold pattern are folded at an angle in their associated fold angle range.

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Research | MIT CSAIL

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Print-and-fold manufacturing has the  
potential to democratize access to  
robots with robots that are easier to  
fabricate using materials that are  
easier to procure. Unfortu-nately, a



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lack of understanding about how motion can be achieved by folding hinders the scope of print-and-fold robots.

Foldable Joints for Foldable Cynthia  
Sung Robots  
Foldable Joints for Foldable Robots.

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Cynthia Sung, Daniela Rus.

International Symposium on  
Experimental Robotics (ISER 2014)

Abstract: Print-and-fold  
manufacturing has the potential to  
democratize access to robots with  
robots that are easier to fabricate  
using materials that are easier to

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procure. Unfortunately, a lack of understanding about ...

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We have composed them into joints with higher degrees of freedom and into foldable mechanisms and found

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that they achieve the expected kinematics. We have also added actuators and control circuitry to our joints and mechanisms, showing that it is possible to print and fold entire robots with many different kinematics using a uniform process.

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student-made (and/or teacher-made)

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(mostly) textbooks. Subjects Page 1 / 4

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Mit Csail - TruyenYY

foldable robot foldable joint basic

joint 3-d form single uniform process

entire robot user-specified range

many different kinematics rigid body

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MitGoal  
print-and-fold robot fold pattern  
composed mechanism current effort  
control circuitry print-and-fold  
approach entire foldable linkage  
mechanism attached actuator  
expected kinematics

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## Mit Open Access Foldable Robots

“ The Effect of Large Deflections of Joints on Foldable Miniature Robot Dynamics, ” Journal of Intelligent and Robotic Systems, Springer, pp. 1-14, 2020, doi:

10.1007/s10846-020-01169-1. Lab News New members joined the lab!

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TÜB TAK 3001 Project: Joint Design  
in Foldable Robots ...

5 (1) An invention has been developed  
by South Korean scientists that will  
literally expand the reach of drones –  
a lightweight, foldable robotic arm.  
Inspired by the traditional Japanese

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Mu Gail  
folding technique origami, the arm can be equipped with a grab or a camera and allows access to tubes, chimneys or other narrow places. A [...]

Origami-Inspired Foldable Robot Arm  
Developed for Drones ...

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Foldable Tables for Robotics Teams

Aaraj and his helpers built and donated two tables to local robotics programs. The foldable, portable and lightweight tables were made out of durable and recyclable material to support the growing robotics programs at Floris Elementary school

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and Children ' s Science Center of  
Northern Virginia.

Foldable Tables for Robotics Teams –  
Eagle Scout Project ...

Folding Shelf Brackets 8 Inch with  
Install Screws, 2pcs Heavy Duty  
Stainless Steel 304 Collapsible Shelf

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Bracket Wall Mounted Triangle  
Brackets for DIY Table Work Bench,  
Max Load 300 lb. 4.5 out of 5 stars  
22. 7% off. \$12.99 \$ 12. 99 \$13.99  
\$13.99. 10% coupon applied at  
checkout Save 10% with coupon.

Amazon.com: Locking Hinge



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the robot are investigated, and we discuss the motion planning and control strategies for its squirming locomotion. Our design and folding paradigm provides a novel approach for building reconfigurable robots using a range of lightweight foldable sheets. I. INTRODUCTION A. Origami

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Origami originally was a paper-craft that affords the

HexaMorph: A Reconfigurable and Foldable Hexapod Robot ...

The same principles used to make origami art can make self-assembling robots and tunable

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Metamaterials—artificial materials engineered to have properties that may not be found in nature (see the Perspective by You). Felton et al. made complex self-folding robots from flat templates. Such robots could potentially be sent through a collapsed building or tunnels and then

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A method for building self-folding  
machines | Science  
Foldable Joints for Foldable Robots -  
CORE Reader

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