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Foldable Joints for Foldable Robots 3 R N s r (a) Hinge joint h R w d N c (b) Prismatic joint R N s i r 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 into a set of smaller polygons that overlap only at the fold ...

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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-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.

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

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Foldable Joints for Foldable Robots 3 R N s r (a) Hinge joint h R w d N c (b) 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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Foldable Joints for Foldable Robots 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. Unfortunately, a 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. Cynthia Sung, Daniela Rus.

International Symposium on Experimental Robotics (ISER 2014)

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foldable robot foldable joint basic joint 3-d form single uniform
process entire robot user-specified range many different kinematics
rigid body 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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“ 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

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New members joined the lab!

T Ü B 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 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 [...]

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school and Children ' s Science Center of Northern Virginia.

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the robot are investigated, and we discuss the motion planning and
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paradigm provides a novel approach for building recon fi gurable
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INTRODUCTION A. Origami Origami originally was a paper-craft that affords the

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

A method for building self-folding machines | Science
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