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Algorithmic Foundations Of Robotics Ix

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Introduction. Robotics is at the cusp of dramatic transformation. Increasingly complex robots with unprecedented autonomy are finding new applications, from medical surgery, to construction, to home services. Against this background, the algorithmic foundations of robotics are becoming more crucial than ever, in order to build robots that are fast, safe, reliable, and adaptive.

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Dylan, JJ, Ming, Steve, and Timo. Algorithms are a fundamental component of robotic systems: they control or reason about motion and perception in the physical world. They receive input from noisy sensors, consider geometric and physical constraints, and operate on the world through imprecise actuators.

WAFR 2020 - robotics.cs.rutgers.edu

E. Drumwright and D. A. Shell, "Modeling Contact Friction and Joint Friction in Dynamic Robotic Simulation using the Principle of Maximum Dissipation", in Workshop on the Algorithmic Foundations of Robotics (WAFR-IX), Singapore, December 2010. [Acceptance Rate was 40%]

Dylan A. Shell - robotics.cs.tamu.edu

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Motion Planning for a Six-Legged Lunar Robot. Workshop on Algorithmic Foundations of Robotics (WAFR), New-York, NY, July 2006. Published in Algorithmic Foundation of Robotics VII, Springer Tracts in Advanced Robotics, Vol. 47, pp. 301-316, 2008.- Motion Planning for Legged Robots on Varied Terrain. K.

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sensors, consider geometric and physical constraints, and operate on the world through imprecise actuators. The design and analysis of robot algorithms therefore raises a unique combination of questions in control theory, computational and differential geometry, and computer science.

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This fifth biannual Workshop on Algorithmic Foundations of Robotics focuses on algorithmic issues related to robotics and automation. The design and analysis of robot algorithms raises fundamental questions in computer science, computational geometry, mechanical modeling, operations research, control theory, and associated fields.

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