

Modeling and Shape Prediction for Elastic Kinematic Chains

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Abstract : This paper investigates modeling and shape prediction of elastic kinematic chains such as colonoscopy. 2D and 3D models of elastic kinematic chains are suggested and their behaviors are demonstrated through simulation. To corroborate the effectiveness of those models, experimental work is performed using a magnetic sensor system.

Keywords : elastic kinematic chain, shape prediction, colonoscopy, modeling

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