

# Design and Kinematic Modeling of Constant Curvature

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Equilibrium Conformations of Concentric-tube Continuum Robots. International Journal of Robotics Research, 2010, 29, 1263-1280.	5.8	181
2	A pilot investigation of continuum robots as a design alternative for upper extremity exoskeletons. , 2011, , .		8
3	Compliant motion control for continuum robots with intrinsic actuation sensing. , 2011, , .		35
4	Modelling of multisection bionic manipulator: Application to RobotinoXT. , 2011, , .		16
5	Novel modal approach for kinematics of multisection continuum arms. , 2011, , .		63
6	A modeling approach for continuum robotic manipulators: Effects of nonlinear internal device friction. , 2011, , .		63
7	Modeling and Control of a Continuum Style Microrobot for Endovascular Surgery. IEEE Transactions on Robotics, 2011, 27, 1024-1030.	7.3	57
8	Statics and Dynamics of Continuum Robots With General Tendon Routing and External Loading. , 2011, 27, 1033-1044.		422
9	Toward robotic needle steering in lung biopsy: a tendon-actuated approach. Proceedings of SPIE, 2011, , .	0.8	22
10	Learning a Curvature Dynamic Model of an Octopus-inspired Soft Robot Arm Using Flexure Sensors. Procedia Computer Science, 2011, 7, 294-296.	1.2	7
11	Computing Jacobians and compliance matrices for externally loaded continuum robots. , 2011, , .		68
12	A learning algorithm for visual pose estimation of continuum robots. , 2011, , .		17
13	Deflection-based force sensing for continuum robots: A probabilistic approach. , 2011, , .		64
14	Modeling and control of a planar continuum robot. , 2011, , .		24
15	Towards closed loop control of a continuum robotic manipulator for medical applications. , 2011, , .		63
16	Teleoperation control of a redundant continuum manipulator using a non-redundant rigid-link master. , 2012, , .		9
17	A three-dimensional curvature-based beam model for measuring mechanical properties on an automated bone testing system. , 2012, , .		0
18	Forward kinematics of a compliant pneumatically actuated redundant manipulator. , 2012, , .		18

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19	Learning-based configuration estimation of a multi-segment continuum robot. , 2012, , .		15
20	Development and initial testing of a prototype concentric tube robot for surgical interventions. , 2012, , .		2
21	Configuration comparison for surgical robotic systems using a single access port and continuum mechanisms. , 2012, , .		12
22	A 3D steady-state model of a tendon-driven continuum soft manipulator inspired by the octopus arm. Bioinspiration and Biomimetics, 2012, 7, 025006.	1.5	160
23	Mechanics and manipulation of planar elastic kinematic chains. , 2012, , .		8
24	Design of soft robotic actuators using fluid-filled fiber-reinforced elastomeric enclosures in parallel combinations. , 2012, , .		84
25	Design, development and evaluation of a highly versatile robot platform for minimally invasive single-port surgery. , 2012, , .		16
26	Continuum Manipulator Statics Based on the Principle of Virtual Work. , 2012, , .		17
27	Design of a Quadramanual Robot for Single-Nostril Skull Base Surgery. , 2012, , .		17
28	Achieving Dexterous Manipulation for Minimally Invasive Surgical Robots Through the Use of Hydraulics. , 2012, , .		4
29	Bond Graph Modelling of In Vivo Robot for Biopsy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 421-426.	0.4	1
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44	Considering Endoscopic Design: A Snakebot Prototype. <i>IEEE Pulse</i> , 2013, 4, 30-35.	0.1	0
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47	Debulking From Within: A Robotic Steerable Cannula for Intracerebral Hemorrhage Evacuation. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2567-2575.	2.5	100
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54	Experimental design verification of a compliant shoulder exoskeleton. , 2013, , .		14

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57	Modeling tendon-sheath mechanism with flexible configurations for robot control. Robotica, 2013, 31, 1131-1142.	1.3	28
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94	Model-Based Shape Estimation for Soft Robotic Manipulators: The Planar Case. Journal of Mechanisms and Robotics, 2014, 6, .	1.5	31
95	A Pilot Study of a Continuum Shoulder Exoskeleton for Anatomy Adaptive Assistancess. Journal of Mechanisms and Robotics, 2014, 6, .	1.5	15
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109	Design and control of a soft and continuously deformable 2D robotic manipulation system. , 2014, , .		163

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134	Continuum Robot Dynamics Utilizing the Principle of Virtual Power. IEEE Transactions on Robotics, 2014, 30, 275-287.	7.3	183
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