

Reviews For Paper

Paper ID 24
Title RAMA-1 Highly dexterous 33 DOF robotic hand

Masked Reviewer ID: Assigned_Reviewer_1

Review:

Question	
Detailed Comments	The paper is well documented and references are appreciated. Please explain better how you see applications for such devices and what are the constraints to take into account (interferences with the environment, for instance)

Masked Reviewer ID: Assigned_Reviewer_2

Review:

Question	
Detailed Comments	The paper shows the implementation of a 33DOF robotic hand, describing mechanical and electronic design, but without providing details about its control. Moreover, the relevance for search and rescue robots is not specified: which kind of tasks or functionalities can bring to a search and rescue robot? How these abilities can be evaluated in search and rescue scenarios?

Masked Reviewer ID: Assigned_Reviewer_3

Review:

Question	
Detailed Comments	<ul style="list-style-type: none">- Joint design seems to be an original approach enabling the authors' hand design to use simple, inexpensive mechanisms while achieving high DOF.- The hand is apparently underactuated. What are the advantages or disadvantages?- Since the joints can bend in any direction, if any of them are underactuated, what prevents them from bending the wrong way during grasping/manipulation?- The related work section describes a number of other hand designs, but there is no systematic comparison of the performance of the authors' hand to any of these. Some sort of experimental comparison would give much better evidence for the implied claim that the authors' joint design allows a superior hand design.- The paper seems to also make the broader claim that the authors' joint design will provide superior performance for other types of joints on articulated robots. If this is so, it should be stated more clearly.- I am not clear as to what the authors intend as their main result. Is the claim that they have designed a superior hand or that their joint design is a new approach that will enable better-performing robot designs in a number of ways (with the novel hand design being offered as evidence of that claim). I think they are claiming the latter (which I assume in the prior comment) but if so, it should be stated clearly at the outset of the paper.