



Soft Robot Dynamics: the Bunch of Bananas Model

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The research in the field of underwater robots is triggered by highly demanding applications such as exploration, inspection, maintenance and repairing in submerged areas in which interventions are essential but extremely complex, dangerous or expensive for humans. In this project, by taking inspiration from living marine organisms, we endow bioinspired underwater robots with elegant solutions overcoming the limitations encountered by traditional engineering approaches. In particular, we investigate the interaction between soft, highly flexible materials (e. g. silicone) and the underwater environment, in order to produce efficient, smooth propulsion and dexterous manipulation underwater. Octopus-like and anguilliform structures are currently considered

