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robot locomotion wikipedia Apr 28 2020 robot locomotion is the collective name for the various methods that robots use to transport themselves from place to place wheeled robots are typically quite energy efficient and simple to control however other forms of locomotion may be more appropriate for a number of reasons for example traversing rough terrain as well as moving and interacting in human environments

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bionics wikipedia Aug 25 2022 bionics or biologically inspired engineering is the application of biological methods and systems found in nature to the study and design of engineering systems and modern technology the word bionic coined by jack e steele in august 1958 is a portmanteau from biology and electronics that was popularized by the 1970s u s television series the six million dollar man

biomimétisme wikipédia Mar 20 2022 l'expression bioinspiration n'est pas une traduction ni une adaptation française du terme biomimicry l'expression biomimétisme est proche mais inventé par des chercheurs nord américains dont janine benyus bioinspiration et biomimétisme seraient donc deux termes et concepts ayant de nombreux points communs sans être synonymes

octopus arm inspired tapered soft actuators with soft robotics Oct 15 2021 oct 16 2020 octopuses can employ their tapered arms to catch prey of all shapes and sizes due to their dexterity flexibility and gripping power intrigued by variability in arm taper angle between different octopus species we explored the utility of designing soft actuators exhibiting a distinctive conical geometry compared with more traditional cylindrical forms we find that

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