



# IEEE IROS 2020 Workshop on *Animal-Robot Interaction*

## Title

A Bio-hybrid System to Shape Natural Plants

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## Abstract

Bio-hybrid systems can be formed with animals but also natural plants. In the EU-funded project flora robotica, we have developed novel methods to guide the growth and motion of plants. I present experiments on three scales: one robot controlling one plant with high precision, eight robots forming a simple pattern of eight plants, and many robots steering the biomass of many plants on room-scale. This new methodology may help to innovate architecture and how we build our future cities.