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Nota di contenuto	Intro -- Scientific Advisory Committee -- Organizing Committee -- Preface -- Contents -- Free Vibration of Compliant Mechanisms Based on Euler-Bernoulli-Beams -- 1 Introduction -- 2 Analytical Method -- 2.1 Differential Equations of Motion -- 2.2 Boundary Conditions -- 2.3 Continuity Conditions -- 2.4 Matrix Form -- 2.5 Transfer Matrices -- 2.6 Equation of the Natural Frequencies -- 2.7 First Verification of the Analytical Approach -- 3 Design of the Calculation Tool -- 3.1 Programming Language Python -- 3.2 Design of the Graphical User Interface for the Calculation Tool -- 4 Validation and Verification -- 4.1 Test Specimen Design -- 4.2 Material Choice and Manufacturing -- 4.3 Free Vibration Testing -- 4.4 Dynamic Vibration Testing -- 4.5 Verification Through Finite Element Analysis -- 5 Results -- 6 Discussion -- 7 Conclusion and Outlook -- 8 Appendix -- References -- Towards Topology Optimization of Pressure-Driven Soft Robots -- 1 Introduction -- 2 Pressure Load Modeling -- 3 Topology Optimization Formulation -- 4 Numerical Results and Discussions -- 5 Closure -- References -- Compliant Finger Gripper Based on Topology Optimization -- 1 Introduction -- 2 Related Work -- 3 Motivation and Organization -- 4 Formulation of the Problem, Objective and Constraints -- 5 Contact Modeling in Large Deformation Between Beams and External Surfaces -- 6 Optimization - Hill Climbing Mutation Algorithm -- 7 Optimization Results and Discussion -- 7.1

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