A Differential-Geometric Approach for Bernstein's Degrees-of-Freedom Problem
Nonsmooth Riemannian Optimization with Applications to Sphere Packing and Grasping
Synchronization of Networked Lagrangian Systems
An Algorithm to Discretize One-Dimensional Distributed Port Hamiltonian Systems
Virtual Lagrangian Construction Method for Infinite-Dimensional Systems with Homotopy Operators
Direct Discrete-Time Design for Sampled-Data Hamiltonian Control Systems
Kinematic Compensation in Port-Hamiltonian Telemanipulation
Interconnection and Damping Assignment Passivity-Based Control of a Four-Tank System
Towards Power-Based Control Strategies for a Class of Nonlinear Mechanical Systems
Power Shaping Control of Nonlinear Systems: A Benchmark Example
Total Energy Shaping Control of Mechanical Systems: Simplifying the Matching Equations Via Coordinate Changes
Simultaneous Interconnection and Damping Assignment Passivity-Based Control: Two Practical Examples
An Internal Model Approach to Implicit Fault Tolerant Control for Port-Hamiltonian Systems
On the Geometric Reduction of Controlled Three-Dimensional Bipedal Robotic Walkers
Gait Generation for a Hopping Robot Via Iterative Learning Control Based on Variational Symmetry
On the Interconnection Structures of Irreversible Physical Systems
Rolling Problems on Spaces of Constant Curvature
Dirac Structures and the Legendre Transformation for Implicit Lagrangian and Hamiltonian Systems
Control of a Class of 1-Generator Nonholonomic System with Drift Through Input-Dependent Coordinate Transformation
Principal Subspace Flows Via Mechanical Systems on Grassmann Manifolds
Approximation of Generalized Minimizers and Regularization of Optimal Control Problems
Minimum Time Optimality of a Partially Singular Arc: Second Order Conditions
Hamiltonian Engineering for Quantum Systems
Stability Analysis of 2-D Object Grasping by a Pair of Robot Fingers with Soft and Hemispherical Ends
Intrinsic Control Designs for Abstract Machines
Shape Control of a Multi-agent System Using Tensegrity Structures
A Family of Pumping-Damping Smooth Strategies for Swinging Up a Pendulum
An Energy-Shaping Approach with Direct Mechanical Damping Injection to Design of Control for Power Systems
Remarks on Quadratic Hamiltonians in Spaceflight Mechanics
Controlling a Submerged Rigid Body: A Geometric Analysis
Explicit Structured Singular Value Analysis of Manipulators with Passivity Based Control