

# Jan Tommy Gravdahl

## List of Publications by Citations

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147  
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2,507  
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163  
ext. papers

3,222  
ext. citations

2.8  
avg, IF

5.35  
L-index

| #   | Paper                                                                                                                                                                                                    | IF  | Citations |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 147 | Spacecraft coordination control in 6DOF: Integrator backstepping vs passivity-based control. <i>Automatica</i> , <b>2008</b> , 44, 2896-2901                                                             | 5.7 | 150       |
| 146 | A review on modelling, implementation, and control of snake robots. <i>Robotics and Autonomous Systems</i> , <b>2012</b> , 60, 29-40                                                                     | 3.5 | 141       |
| 145 | Integral Line-of-Sight Guidance and Control of Underactuated Marine Vehicles: Theory, Simulations, and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1623-1642 | 4.8 | 137       |
| 144 | Satellite Attitude Control by Quaternion-Based Backstepping. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 227-232                                                          | 4.8 | 129       |
| 143 | Modelling of UAV formation flight using 3D potential field. <i>Simulation Modelling Practice and Theory</i> , <b>2008</b> , 16, 1453-1462                                                                | 3.9 | 92        |
| 142 | Centrifugal compressor surge and speed control. <i>IEEE Transactions on Control Systems Technology</i> , <b>1999</b> , 7, 567-579                                                                        | 4.8 | 90        |
| 141 | Spacecraft attitude control using explicit model predictive control. <i>Automatica</i> , <b>2005</b> , 41, 2107-2114                                                                                     | 5.7 | 77        |
| 140 | Drive torque actuation in active surge control of centrifugal compressors. <i>Automatica</i> , <b>2002</b> , 38, 1881-1893                                                                               | 5.7 | 70        |
| 139 | Snake Robots. <i>Advances in Industrial Control</i> , <b>2013</b> ,                                                                                                                                      | 0.3 | 69        |
| 138 | Controllability and Stability Analysis of Planar Snake Robot Locomotion. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 1365-1380                                                     | 5.9 | 68        |
| 137 | Compressor Surge and Rotating Stall. <i>Advances in Industrial Control</i> , <b>1999</b> ,                                                                                                               | 0.3 | 66        |
| 136 | Innovation in Underwater Robots: Biologically Inspired Swimming Snake Robots. <i>IEEE Robotics and Automation Magazine</i> , <b>2016</b> , 23, 44-62                                                     | 3.4 | 59        |
| 135 | Integral Line-of-Sight Guidance for Path Following Control of Underwater Snake Robots: Theory and Experiments. <i>IEEE Transactions on Robotics</i> , <b>2017</b> , 33, 610-628                          | 6.5 | 58        |
| 134 | Damping and Tracking Control Schemes for Nanopositioning. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 432-444                                                                      | 5.5 | 51        |
| 133 | Hybrid Modelling and Control of Obstacle-Aided Snake Robot Locomotion. <i>IEEE Transactions on Robotics</i> , <b>2010</b> , 26, 781-799                                                                  | 6.5 | 44        |
| 132 | Robotic in-row weed control in vegetables. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 154, 36-45                                                                                    | 6.5 | 43        |
| 131 | Mamba - A waterproof snake robot with tactile sensing <b>2014</b> ,                                                                                                                                      |     | 42        |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 130 | Experimental Investigation of Obstacle-Aided Locomotion With a Snake Robot. <i>IEEE Transactions on Robotics</i> , <b>2011</b> , 27, 792-800                               | 6.5 | 41 |
| 129 | Singularity-free dynamic equations of vehicle-manipulator systems. <i>Simulation Modelling Practice and Theory</i> , <b>2010</b> , 18, 712-731                             | 3.9 | 39 |
| 128 | Explicit Model Predictive Control for Large-Scale Systems via Model Reduction. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2008</b> , 31, 918-926               | 2.1 | 39 |
| 127 | Snake Robot Locomotion in Environments With Obstacles. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2012</b> , 17, 1158-1169                                         | 5.5 | 38 |
| 126 | Modeling of underwater snake robots <b>2014</b> ,                                                                                                                          |     | 34 |
| 125 | Path following of underactuated autonomous underwater vehicles in the presence of ocean currents <b>2012</b> ,                                                             |     | 33 |
| 124 | Modeling of Surge in Free-Spool Centrifugal Compressors: Experimental Validation. <i>Journal of Propulsion and Power</i> , <b>2004</b> , 20, 849-857                       | 1.8 | 33 |
| 123 | Optimal Paint Gun Orientation in Spray Paint Applications Experimental Results. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2011</b> , 8, 438-442  | 4.9 | 31 |
| 122 | Adaptive feed-forward hysteresis compensation for piezoelectric actuators. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 085001                              | 1.7 | 31 |
| 121 | Vehicle-Manipulator Systems. <i>Advances in Industrial Control</i> , <b>2014</b> ,                                                                                         | 0.3 | 30 |
| 120 | UAV formation flight using 3D potential field <b>2008</b> ,                                                                                                                |     | 28 |
| 119 | A simplified model of planar snake robot locomotion <b>2010</b> ,                                                                                                          |     | 27 |
| 118 | Integral LOS guidance for horizontal path following of underactuated autonomous underwater vehicles in the presence of vertical ocean currents <b>2012</b> ,               |     | 27 |
| 117 | Planar Path Following of Underwater Snake Robots in the Presence of Ocean Currents. <i>IEEE Robotics and Automation Letters</i> , <b>2016</b> , 1, 383-390                 | 4.2 | 26 |
| 116 | Active surge control of compression system using drive torque. <i>Automatica</i> , <b>2008</b> , 44, 1135-1140                                                             | 5.7 | 26 |
| 115 | The Underwater Swimming Manipulator A Bioinspired Solution for Subsea Operations. <i>IEEE Journal of Oceanic Engineering</i> , <b>2018</b> , 43, 402-417                   | 3.3 | 21 |
| 114 | Lyapunov Estimator for High-Speed Demodulation in Dynamic Mode Atomic Force Microscopy. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 765-772 | 4.8 | 20 |
| 113 | Bond graph modeling of centrifugal compression systems. <i>Simulation</i> , <b>2015</b> , 91, 998-1013                                                                     | 1.2 | 18 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|
| 112 | A Real-Time Algorithm for Determining the Optimal Paint Gun Orientation in Spray Paint Applications. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2010</b> , 7, 803-816                                | 4.9   | 18 |
| 111 | Integral line-of-sight for path following of underwater snake robots <b>2014</b> ,                                                                                                                                            |       | 17 |
| 110 | 6-DOF mutual synchronization of formation flying spacecraft <b>2006</b> ,                                                                                                                                                     |       | 17 |
| 109 | Locomotion Efficiency Optimization of Biologically Inspired Snake Robots. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 80                                                                                         | 2.6   | 16 |
| 108 | Motion planning and control of robotic manipulators on seaborne platforms. <i>Control Engineering Practice</i> , <b>2011</b> , 19, 809-819                                                                                    | 3.9   | 16 |
| 107 | A Simplified Method for Discrete-Time Repetitive Control Using Model-Less Finite Impulse Response Filter Inversion. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2016</b> , 138, | 1.6   | 15 |
| 106 | A waypoint guidance strategy for underwater snake robots <b>2014</b> ,                                                                                                                                                        |       | 14 |
| 105 | Low-order continuous-time robust repetitive control: Application in nanopositioning. <i>Mechatronics</i> , <b>2015</b> , 30, 231-243                                                                                          | 3     | 13 |
| 104 | Trajectory Tracking for Underwater Swimming Manipulators using a Super Twisting Algorithm. <i>Asian Journal of Control</i> , <b>2019</b> , 21, 208-223                                                                        | 1.7   | 12 |
| 103 | Differential geometric modelling and robust path following control of snake robots using sliding mode techniques <b>2014</b> ,                                                                                                |       | 12 |
| 102 | A 3D motion planning framework for snake robots <b>2014</b> ,                                                                                                                                                                 |       | 12 |
| 101 | Energy efficiency of underwater snake robot locomotion <b>2015</b> ,                                                                                                                                                          |       | 11 |
| 100 | Set-Based Control for Autonomous Spray Painting. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 1785-1796                                                                                 | 4.9   | 11 |
| 99  | Energy efficiency of underwater robots. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 152-159                                                                                                                                  | 0.7   | 11 |
| 98  | Singularity-free dynamic equations of spacecraft-manipulator systems. <i>Acta Astronautica</i> , <b>2011</b> , 69, 1057-1065                                                                                                  | 1.065 | 10 |
| 97  | Stability analysis of snake robot locomotion based on averaging theory <b>2010</b> ,                                                                                                                                          |       | 10 |
| 96  | Active Compressor Surge Control Using Piston Actuation <b>2011</b> ,                                                                                                                                                          |       | 10 |
| 95  | Quaternion-Based Backstepping Control of Relative Attitude in a Spacecraft Formation <b>2006</b> ,                                                                                                                            |       | 10 |

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| 94 | Design and control of precision drop-on-demand herbicide application in agricultural robotics <b>2014,</b>                                                                                                                         |     | 9 |
| 93 | Controllability analysis of planar snake robots influenced by viscous ground friction <b>2009,</b>                                                                                                                                 |     | 9 |
| 92 | Tracking Control of an Articulated Intervention Autonomous Underwater Vehicle in 6DOF Using Generalized Super-twisting: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 353-369 | 4.8 | 9 |
| 91 | Boarding control system for improved accessibility to offshore wind turbines: Full-scale testing. <i>Control Engineering Practice</i> , <b>2015</b> , 45, 207-218                                                                  | 3.9 | 8 |
| 90 | A Machine Vision System for Robust Sorting of Herring Fractions. <i>Food and Bioprocess Technology</i> , <b>2016</b> , 9, 1893-1900                                                                                                | 5.1 | 8 |
| 89 | Path following control of planar snake robots using virtual holonomic constraints <b>2013,</b>                                                                                                                                     |     | 8 |
| 88 | Stability analysis of underwater snake robot locomotion based on averaging theory <b>2014,</b>                                                                                                                                     |     | 8 |
| 87 | Compliant control of the body shape of snake robots <b>2014,</b>                                                                                                                                                                   |     | 8 |
| 86 | Fundamental properties of snake robot locomotion <b>2010,</b>                                                                                                                                                                      |     | 8 |
| 85 | A modular and waterproof snake robot joint mechanism with a novel force/torque sensor <b>2012,</b>                                                                                                                                 |     | 8 |
| 84 | Topics on Current Compensation for Path Following Applications of Underactuated Underwater Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 184-191                |     | 8 |
| 83 | Topography and force imaging in atomic force microscopy by state and parameter estimation <b>2015,</b>                                                                                                                             |     | 7 |
| 82 | Non-linear model predictive control for constrained robot navigation in row crops <b>2015,</b>                                                                                                                                     |     | 7 |
| 81 | Optimal dynamic force mapping for obstacle-aided locomotion in 2D snake robots <b>2014,</b>                                                                                                                                        |     | 7 |
| 80 | A control-oriented model of underwater snake robots <b>2014,</b>                                                                                                                                                                   |     | 7 |
| 79 | Experimental comparison of adaptive controllers for trajectory tracking in agricultural robotics <b>2015,</b>                                                                                                                      |     | 6 |
| 78 | Combined kinematic and dynamic control of vehicle-manipulator systems. <i>Mechatronics</i> , <b>2020</b> , 69, 102380                                                                                                              |     | 6 |
| 77 | Set-based collision avoidance applications to robotic systems. <i>Mechatronics</i> , <b>2020</b> , 69, 102399                                                                                                                      | 3   | 6 |

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| 76 | A heat equation for freezing processes with phase change: stability analysis and applications. <i>International Journal of Control</i> , <b>2016</b> , 89, 833-849                                                                      | 1.5 | 6 |
| 75 | Discrete-time repetitive control with model-less FIR filter inversion for high performance nanopositioning <b>2014</b> ,                                                                                                                |     | 6 |
| 74 | Nonlinear observer design for a Greitzer compressor model <b>2013</b> ,                                                                                                                                                                 |     | 6 |
| 73 | Path following of marine surface vessels with saturated transverse actuators <b>2013</b> ,                                                                                                                                              |     | 6 |
| 72 | Modeling of underwater snake robots moving in a vertical plane in 3D <b>2014</b> ,                                                                                                                                                      |     | 6 |
| 71 | Lateral undulation of snake robots: a simplified model and fundamental properties. <i>Robotica</i> , <b>2013</b> , 31, 1005-1036                                                                                                        | 2.1 | 6 |
| 70 | Introducing Back-up to Active Compressor Surge Control System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 263-268                                                           |     | 6 |
| 69 | Optimal boundary control of a contact thawing process for foodstuff. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 183-188                                                                                                               |     | 6 |
| 68 | Modelling and simulation of a flywheel based energy storage system for an industrial manipulator <b>2015</b> ,                                                                                                                          |     | 5 |
| 67 | Optimal boundary control for the heat equation with application to freezing with phase change <b>2013</b> ,                                                                                                                             |     | 5 |
| 66 | Simulator and Control System Design for a Free Floating Surface Effect Ship at Zero Vessel Speed. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 67-72                          |     | 5 |
| 65 | Path Following of Underactuated Surface Vessels in Presence of Unknown Constant Environmental Forces: Preliminary Results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 85-90 |     | 5 |
| 64 | PI2-Controller Applied to a Piezoelectric Nanopositioner Using Conditional Integrators and Optimal Tuning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 887-892               |     | 5 |
| 63 | Experimental comparison of online parameter identification schemes for a nanopositioning stage with variable mass <b>2011</b> ,                                                                                                         |     | 5 |
| 62 | Discrete state-space model to solve the unit commitment and economic dispatch problems. <i>Energy Systems</i> , <b>2017</b> , 8, 525-547                                                                                                | 1.7 | 4 |
| 61 | A control-oriented model of underwater snake robots exposed to currents <b>2015</b> ,                                                                                                                                                   |     | 4 |
| 60 | Design of a nonlinear damping control scheme for nanopositioning <b>2013</b> ,                                                                                                                                                          |     | 4 |
| 59 | Analysis of underwater snake robot locomotion based on a control-oriented model <b>2015</b> ,                                                                                                                                           |     | 4 |

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| 58 | Counter-Current and Co-Current Guidance of Underactuated Unmanned Marine Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 60-66                                                     |     | 4 |
| 57 | Heave Motion Estimation on a Craft Using a Strapdown Inertial Measurement Unit. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 298-303                                                      |     | 4 |
| 56 | Path following control of snake robots in unstructured environments <b>2011</b> ,                                                                                                                                                                   |     | 4 |
| 55 | Robust damping PI repetitive control for nanopositioning <b>2012</b> ,                                                                                                                                                                              |     | 4 |
| 54 | Formation Modelling and 6DOF Spacecraft Coordination Control. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,                                                                                                                 | 1.2 | 4 |
| 53 | Robot Dynamics with URDF & CasADi <b>2019</b> ,                                                                                                                                                                                                     |     | 4 |
| 52 | Dynamic formulation of the unit commitment and economic dispatch problems <b>2015</b> ,                                                                                                                                                             |     | 3 |
| 51 | Active Compressor Surge Control System by Using Piston Actuation: Implementation and Experimental Results. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 347-352                                                                                     | 0.7 | 3 |
| 50 | Model-Based Identification of Nanomechanical Properties in Atomic Force Microscopy: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 2045-2057                                                    | 4.8 | 3 |
| 49 | The nonlinear heat equation with state-dependent parameters and its connection to the BurgersT and the potential BurgersTequation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 7019-7024 |     | 3 |
| 48 | Modeling and control of a marine diesel engine driving a synchronous machine and a propeller <b>2014</b> ,                                                                                                                                          |     | 3 |
| 47 | Mixed-integer formulation of unit commitment problem for power systems: Focus on start-up cost <b>2013</b> ,                                                                                                                                        |     | 3 |
| 46 | Fixed-Structure, Low-Order Damping and Tracking Control Schemes for Nanopositioning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 28-36                                                   |     | 3 |
| 45 | On the influence of ship motion prediction accuracy on motion planning and control of robotic manipulators on seaborne platforms <b>2010</b> ,                                                                                                      |     | 3 |
| 44 | A hybrid model of obstacle-aided snake robot locomotion <b>2010</b> ,                                                                                                                                                                               |     | 3 |
| 43 | Experimental investigation of fundamental properties of snake robot locomotion <b>2010</b> ,                                                                                                                                                        |     | 3 |
| 42 | General Solutions to functional and kinematic Redundancy <b>2007</b> ,                                                                                                                                                                              |     | 3 |
| 41 | Tracking control of an articulated intervention AUV in 6DOF using the generalized super-twisting algorithm <b>2019</b> ,                                                                                                                            |     | 3 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 40 | Ocean Color Hyperspectral Remote Sensing With High Resolution and Low Latency--The HYPSO-1 CubeSat Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-19                                                      | 8.1 | 3 |
| 39 | Comparison of two second-order sliding mode control algorithms for an articulated intervention AUV: Theory and experimental results. <i>Ocean Engineering</i> , <b>2021</b> , 222, 108480                                                       | 3.9 | 3 |
| 38 | Simple method for parameter identification of a nonlinear Greitzer compressor model. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 198-203                                                                                                       | 0.7 | 3 |
| 37 | Robust control of a two-state Greitzer compressor model by state-feedback linearization <b>2016</b> ,                                                                                                                                           |     | 2 |
| 36 | Improvement of a Robotic Manipulator Model Based on Multivariate Residual Modeling. <i>Frontiers in Robotics and AI</i> , <b>2017</b> , 4,                                                                                                      | 2.8 | 2 |
| 35 | Estimation of inner-domain temperatures for a freezing process <b>2014</b> ,                                                                                                                                                                    |     | 2 |
| 34 | Linear and Nonlinear State Estimation in the Czochralski Process*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 523-528                                                               |     | 2 |
| 33 | Implementation and Comparison of Attitude Estimation Methods for Agricultural Robotics. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 52-57                                            |     | 2 |
| 32 | Stability analysis of snake robot locomotion based on Poincaré maps <b>2009</b> ,                                                                                                                                                               |     | 2 |
| 31 | On the Boundedness Property of the Inertia Matrix and Skew-Symmetric Property of the Coriolis Matrix for Vehicle-Manipulator Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2012</b> , 134, | 1.6 | 2 |
| 30 | On the equivalence of orientation error and positive definiteness of matrices <b>2008</b> ,                                                                                                                                                     |     | 2 |
| 29 | Passivity based controller-observer schemes for relative translation of a formation of spacecraft. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,                                                                        | 1.2 | 2 |
| 28 | Active surge control using drive torque: dynamic control laws <b>2006</b> ,                                                                                                                                                                     |     | 2 |
| 27 | Representing Attitudes as Sets of Frames. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,                                                                                                                                 | 1.2 | 2 |
| 26 | Adaptive Boarding Control System in Surface Effect Ships <b>2019</b> ,                                                                                                                                                                          |     | 2 |
| 25 | A Comparative Study of Different Control Structures for Flight Control With New Results. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 291-305                                                                     | 4.8 | 2 |
| 24 | Stability of the Tracking Problem with Task-Priority Inverse Kinematics. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 121-125                                                                                                                   | 0.7 | 2 |
| 23 | Two general state feedback control laws for compressor surge stabilization <b>2016</b> ,                                                                                                                                                        |     | 1 |



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| 22 | Path Following, Obstacle Detection and Obstacle Avoidance for Thrusted Underwater Snake Robots. <i>Frontiers in Robotics and AI</i> , <b>2019</b> , 6, 57                                                                            | 2.8 | 1 |
| 21 | Stability properties of a heat equation with state-dependent parameters and asymmetric boundary conditions. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 587-592                                                                     | 0.7 | 1 |
| 20 | Boarding Control System - for Improved Accessibility to Offshore Wind Turbines. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 229-234                                                                                                 | 0.7 | 1 |
| 19 | Mixed-integer minimization of the cost function of the Unit Commitment problem for isolated power systems <b>2013</b> ,                                                                                                              |     | 1 |
| 18 | A control framework for snake robot locomotion based on shape control points interconnected by Bézier curves <b>2012</b> ,                                                                                                           |     | 1 |
| 17 | Tracking Control for a Piezoelectric Nanopositioner Using Estimated States and Feedforward Compensation of Hysteresis. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 96-104 |     | 1 |
| 16 | Two new design concepts for snake robot locomotion in unstructured environments. <i>Paladyn</i> , <b>2010</b> , 1,                                                                                                                   | 2.3 | 1 |
| 15 | Considering Passive Joints in Cooperative Manipulation as Functional Redundancy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 4349-4354                                    |     | 1 |
| 14 | Quaternion-Based Generalized Super-Twisting Algorithm for Spacecraft Attitude Control. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14811-14818                                                                                      | 0.7 | 1 |
| 13 | Spacecraft Attitude and Angular Rate Tracking using Reaction Wheels and Magnetorquers. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14819-14826                                                                                      | 0.7 | 1 |
| 12 | Robotised Wire Arc Additive Manufacturing Using Set-based Control: Experimental Results. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 10044-10051                                                                                    | 0.7 | 1 |
| 11 | Energy optimal attitude control for a solar-powered spacecraft. <i>European Journal of Control</i> , <b>2021</b> , 62, 192-192                                                                                                       | 2.5 | 1 |
| 10 | Robustness of ISS systems to inputs with limited moving average: Application to spacecraft formations. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 816-833                                      | 3.6 | 1 |
| 9  | Wire-arc additive manufacturing of structures with overhang: Experimental results depositing material onto fixed substrate. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2022</b> , 38, 186-203                  | 3.4 | 1 |
| 8  | A Geometric Approach to Actuator Failure in Robotic Manipulators. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2014</b> , 14, 79-80                                                                                  | 0.2 | 0 |
| 7  | Snake Robots From Biology to Nonlinear Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 110-115                                                                       |     | 0 |
| 6  | Additive Manufacturing Path Generation for Robot Manipulators Based on CAD Models. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 10037-10043                                                                                          | 0.7 | 0 |
| 5  | Analysis of PI-Control for Atomic Force Microscopy in Contact Mode. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-15                                                                                      | 4.8 | 0 |

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 4 | Model-Based LOS Path-Following Control of Planar Underwater Snake Robots. <i>Lecture Notes in Control and Information Sciences</i> , <b>2017</b> , 343-363                     | 0.5 | o |
| 3 | A novel hybrid analysis and modeling approach applied to aluminum electrolysis process. <i>Journal of Process Control</i> , <b>2021</b> , 105, 62-77                           | 3.9 | o |
| 2 | Fault Tolerance of Parallel Manipulators with Passive Joints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 1240-1245 |     |   |
| 1 | Combined state and parameter estimation for not fully observable dynamic systems. <i>IFAC Journal of Systems and Control</i> , <b>2020</b> , 13, 100103                        | 0.9 |   |