

Olav Egeland

List of Publications by Year in descending order

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121
papers

3,120
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279798

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175258

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137
all docs

137
docs citations

137
times ranked

1802
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Lie Algebraic Unscented Kalman Filter for Pose Estimation. IEEE Transactions on Automatic Control, 2022, 67, 4300-4307. | 5.7 | 7 |
| 2 | Robotic weld groove scanning for large tubular T-joints using a line laser sensor. International Journal of Advanced Manufacturing Technology, 2022, 120, 4525-4538. | 3.0 | 4 |
| 3 | Identification of the geometric design parameters of propeller blades from 3D scanning. Journal of Marine Science and Technology, 2022, 27, 887-906. | 2.9 | 5 |
| 4 | Lyapunov-based damping controller with nonlinear MPC control of payload position for a knuckle boom crane. Automatica, 2022, 140, 110219. | 5.0 | 9 |
| 5 | Numerical study on buckling of aluminum extruded panels considering welding effects. Marine Structures, 2022, 84, 103230. | 3.8 | 2 |
| 6 | Dual Quaternion Particle Filtering for Pose Estimation. IEEE Transactions on Control Systems Technology, 2021, 29, 2012-2025. | 5.2 | 13 |
| 7 | Kinematics and Dynamics of Flexible Robotic Manipulators Using Dual Screws. IEEE Transactions on Robotics, 2021, 37, 206-224. | 10.3 | 10 |
| 8 | Laser Scanning and Parametrization of Weld Grooves with Reflective Surfaces. Sensors, 2021, 21, 4791. | 3.8 | 8 |
| 9 | Dynamics of luffing motion of a flexible knuckle boom crane actuated by hydraulic cylinders. Mechanism and Machine Theory, 2020, 143, 103616. | 4.5 | 21 |
| 10 | Positive Real Systems. Communications and Control Engineering, 2020, , 9-79. | 1.6 | 3 |
| 11 | Kalmanâ€™Yakubovichâ€™Popov Lemma. Communications and Control Engineering, 2020, , 81-261. | 1.6 | 0 |
| 12 | Dissipative Systems. Communications and Control Engineering, 2020, , 263-355. | 1.6 | 1 |
| 13 | Stability of Dissipative Systems. Communications and Control Engineering, 2020, , 357-427. | 1.6 | 0 |
| 14 | Dissipative Physical Systems. Communications and Control Engineering, 2020, , 429-490. | 1.6 | 1 |
| 15 | Passivity-Based Control. Communications and Control Engineering, 2020, , 491-573. | 1.6 | 1 |
| 16 | Experimental Results. Communications and Control Engineering, 2020, , 605-647. | 1.6 | 0 |
| 17 | Vision-based control of a knuckle boom crane with online cable length estimation. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1. | 5.8 | 6 |
| 18 | Determination of Reaction Forces of a Deck Crane in Wave Motion Using Screw Theory. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, . | 1.2 | 7 |

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| 19 | Crane load position control using Lyapunov-based pendulum damping and nonlinear MPC position control. , 2019, , . | | 7 |
| 20 | Applied Runge-Kutta-Munthe-Kaas Integration for the Quaternion Kinematics. Journal of Guidance, Control, and Dynamics, 2019, 42, 2747-2754. | 2.8 | 10 |
| 21 | Planning of Robotic Inspection from Visual Tracking of Manual Surface Finishing Tool. , 2019, , . | | 0 |
| 22 | Vision System for Quality Assessment of Robotic Cleaning of Fish Processing Plants Using CNN. IEEE Access, 2019, 7, 71675-71685. | 4.2 | 13 |
| 23 | Detection and Inspection Planning for Ship Propeller Blades via Spectral Shape Analysis. IFAC-PapersOnLine, 2019, 52, 154-159. | 0.9 | 1 |
| 24 | Coarse Alignment for Model Fitting of Point Clouds Using a Curvature-Based Descriptor. IEEE Transactions on Automation Science and Engineering, 2019, 16, 811-824. | 5.2 | 14 |
| 25 | Dynamic modelling and force analysis of a knuckle boom crane using screw theory. Mechanism and Machine Theory, 2019, 133, 179-194. | 4.5 | 27 |
| 26 | An EKF for Lie Groups with Application to Crane Load Dynamics. Modeling, Identification and Control, 2019, 40, 109-124. | 1.1 | 10 |
| 27 | Motor Parameterization. Advances in Applied Clifford Algebras, 2018, 28, 1. | 1.0 | 4 |
| 28 | A Curvature-Based Descriptor for Point Cloud Alignment Using Conformal Geometric Algebra. Advances in Applied Clifford Algebras, 2018, 28, 1. | 1.0 | 11 |
| 29 | Pose Estimation using Dual Quaternions and Moving Horizon Estimation. IFAC-PapersOnLine, 2018, 51, 186-191. | 0.9 | 4 |
| 30 | Robotic Autoscanning of Highly Skewed Ship Propeller Blades. IFAC-PapersOnLine, 2018, 51, 435-440. | 0.9 | 7 |
| 31 | Mechanical Design Optimization of a 6DOF Serial Manipulator Using Genetic Algorithm. IEEE Access, 2018, 6, 59087-59095. | 4.2 | 15 |
| 32 | Pose Estimation with Dual Quaternions and Iterative Closest Point. , 2018, , . | | 3 |
| 33 | Kinematic Feedback Control Using Dual Quaternions. , 2018, , . | | 2 |
| 34 | Determination of constraint forces for an offshore crane on a moving base. , 2018, , . | | 2 |
| 35 | Modeling and Control of a Bifilar Crane Payload. , 2018, , . | | 5 |
| 36 | Dynamic Interaction of a Heavy Crane and a Ship in Wave Motion. Modeling, Identification and Control, 2018, 39, 45-60. | 1.1 | 13 |

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| 37 | Object Detection in Point Clouds Using Conformal Geometric Algebra. Advances in Applied Clifford Algebras, 2017, 27, 1961-1976. | 1.0 | 13 |
| 38 | Initial alignment of point clouds using motors. , 2017, , . | | 1 |
| 39 | Estimation of crane load parameters during tracking using expectation-maximization. , 2017, , . | | 5 |
| 40 | Motor Estimation using Heterogeneous Sets of Objects in Conformal Geometric Algebra. Advances in Applied Clifford Algebras, 2017, 27, 2035-2049. | 1.0 | 5 |
| 41 | Automatic Multivector Differentiation and Optimization. Advances in Applied Clifford Algebras, 2017, 27, 707-731. | 1.0 | 10 |
| 42 | Feedback Linearizing Control of a Gas-Liquid Cylindrical Cyclone. IFAC-PapersOnLine, 2017, 50, 13121-13128. | 0.9 | 10 |
| 43 | Control-oriented modelling of gas-liquid cylindrical cyclones. , 2017, , . | | 8 |
| 44 | Development and validation of robotic cleaning system for fish processing plants. , 2017, , . | | 1 |
| 45 | Automated Assembly Using 3D and 2D Cameras. Robotics, 2017, 6, 14. | 3.5 | 3 |
| 46 | Collision detection for visual tracking of crane loads using a particle filter. , 2016, , . | | 3 |
| 47 | Automatic Touch-Up of Welding Paths Using 3D Vision. IFAC-PapersOnLine, 2016, 49, 73-78. | 0.9 | 10 |
| 48 | Inverse Kinematics for Industrial Robots using Conformal Geometric Algebra. Modeling, Identification and Control, 2016, 37, 63-75. | 1.1 | 23 |
| 49 | Parameter estimation for visual tracking of a spherical pendulum with particle filter. , 2015, , . | | 3 |
| 50 | Loading of hanging trolleys on overhead conveyor with industrial robots. , 2015, , . | | 1 |
| 51 | Particle filter based tracking of free-swinging objects for visual servoing. , 2014, , . | | 0 |
| 52 | Robotic Assembly of Aircraft Engine Components Using a Closed-loop Alignment Process. Procedia CIRP, 2014, 23, 110-115. | 1.9 | 11 |
| 53 | Online state estimation of flexible beams based on particle filtering and camera images. , 2014, , . | | 1 |
| 54 | Crane feedback control in offshore moonpool operations. Control Engineering Practice, 2008, 16, 356-364. | 5.5 | 34 |

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| 55 | Infinite dimensional observer for a flexible robot arm with a tip load. Asian Journal of Control, 2008, 10, 456-461. | 3.0 | 21 |
| 56 | A Novel Scheme for Positive Real Balanced Truncation. Proceedings of the American Control Conference, 2007, , . | 0.0 | 7 |
| 57 | MIMO AND SISO IDENTIFICATION OF RADIATION FORCE TERMS FOR MODELS OF MARINE STRUCTURES IN WAVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 235-242. | 0.4 | 3 |
| 58 | Positive Real Systems. Communications and Control Engineering, 2007, , 9-68. | 1.6 | 0 |
| 59 | Kalman-Yakubovich-Popov Lemma. Communications and Control Engineering, 2007, , 69-176. | 1.6 | 2 |
| 60 | Stability of Dissipative Systems. Communications and Control Engineering, 2007, , 257-313. | 1.6 | 0 |
| 61 | Dissipative Physical Systems. Communications and Control Engineering, 2007, , 315-371. | 1.6 | 1 |
| 62 | Passivity-based Control. Communications and Control Engineering, 2007, , 373-434. | 1.6 | 4 |
| 63 | Adaptive Control. Communications and Control Engineering, 2007, , 435-465. | 1.6 | 0 |
| 64 | Experimental Results. Communications and Control Engineering, 2007, , 467-506. | 1.6 | 0 |
| 65 | New Schemes for Positive Real Truncation. Modeling, Identification and Control, 2007, 28, 53-65. | 1.1 | 5 |
| 66 | Output Feedback Stabilization of Towed Marine Cable. , 2006, , . | | 1 |
| 67 | Parallel Force/Position Crane Control in Marine Operations. IEEE Journal of Oceanic Engineering, 2006, 31, 599-613. | 3.8 | 52 |
| 68 | Output Feedback Stabilization of a Class of Second-Order Distributed Parameter Systems. , 2006, , . | | 1 |
| 69 | Output Feedback Stabilization of a Flexible Beam with Hydraulic Drive. , 2006, , . | | 0 |
| 70 | Second-order Observer for a Class of Second-Order Distributed Parameter Systems. , 2006, , . | | 4 |
| 71 | State-space representation of radiation forces in time-domain vessel models. Modeling, Identification and Control, 2006, 27, 23-41. | 1.1 | 5 |
| 72 | Hardware-in-the-loop testing of marine control system. Modeling, Identification and Control, 2006, 27, 239-258. | 1.1 | 20 |

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| 73 | State-space representation of radiation forces in time-domain vessel models. Ocean Engineering, 2005, 32, 2195-2216. | 4.3 | 113 |
| 74 | A Comparative Study of Actuator Configurations for Satellite Attitude Control. Modeling, Identification and Control, 2005, 26, 201-220. | 1.1 | 7 |
| 75 | Modeling of Surge in Free-Spool Centrifugal Compressors: Experimental Validation. Journal of Propulsion and Power, 2004, 20, 849-857. | 2.2 | 48 |
| 76 | Swinging up the spherical pendulum via stabilization of its first integrals. Automatica, 2004, 40, 73-85. | 5.0 | 47 |
| 77 | Dynamics and Control of a Free-Piston Diesel Engine. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 468-474. | 1.6 | 29 |
| 78 | Adaptive wave synchronization for lowering of crane load. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 163-168. | 0.4 | 0 |
| 79 | Frequency-Dependent Added Mass in Models for Controller Design for Wave Motion Damping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 67-72. | 0.4 | 42 |
| 80 | Boundary control design for towed cables via backstepping. , 2003, , . | | 1 |
| 81 | MODELING AND CONTROL OF A TOWED SEISMIC STREAMER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 385-390. | 0.4 | 0 |
| 82 | Free-piston diesel engine timing and control - toward electronic cam- and crankshaft. IEEE Transactions on Control Systems Technology, 2002, 10, 177-190. | 5.2 | 53 |
| 83 | Drive torque actuation in active surge control of centrifugal compressors. Automatica, 2002, 38, 1881-1893. | 5.0 | 91 |
| 84 | VSS-version of energy-based control for swinging up a pendulum. Systems and Control Letters, 2001, 44, 45-56. | 2.3 | 58 |
| 85 | Stabilization of Stable Manifold of Upright Position of the Spherical Pendulum. Modeling, Identification and Control, 2001, 22, 3-14. | 1.1 | 2 |
| 86 | Dissipative Systems Analysis and Control. Communications and Control Engineering, 2000, , . | 1.6 | 313 |
| 87 | Compressor Surge and Rotating Stall. Advances in Industrial Control, 1999, , . | 0.5 | 104 |
| 88 | Nonlinear Oscillations in Coriolis-Based Gyroscopes. Nonlinear Dynamics, 1999, 19, 193-235. | 5.2 | 7 |
| 89 | Time-varying exponential stabilization of the position and attitude of an underactuated autonomous underwater vehicle. IEEE Transactions on Automatic Control, 1999, 44, 112-115. | 5.7 | 151 |
| 90 | Centrifugal compressor surge and speed control. IEEE Transactions on Control Systems Technology, 1999, 7, 567-579. | 5.2 | 121 |

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| 91 | A passive output feedback controller with wave filter for marine vehicles. , 1998, 8, 1239-1253. | | 6 |
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| 93 | Speed and surge control for a lower order centrifugal compressor model. Modeling, Identification and Control, 1998, 19, 13-29. | 1.1 | 13 |
| 94 | A Lyapunov approach to exponential stabilization of nonholonomic systems in power form. IEEE Transactions on Automatic Control, 1997, 42, 1028-1032. | 5.7 | 88 |
| 95 | Control of the three state Moore-Greitzer compressor model using a close-coupled valve. , 1997, , . | | 19 |
| 96 | Exponential Stabilization of an Underactuated Surface Vessel. Modeling, Identification and Control, 1997, 18, 239-248. | 1.1 | 19 |
| 97 | Feedback Control of a Nonholonomic Underwater Vehicle With a Constant Desired Configuration. International Journal of Robotics Research, 1996, 15, 24-35. | 8.5 | 51 |
| 98 | Motion Control of underwater vehicle-manipulator systems using feedback linearization. Modeling, Identification and Control, 1996, 17, 17-26. | 1.1 | 8 |
| 99 | Robust performance in dynamic positioning systems. Modeling, Identification and Control, 1996, 17, 75-86. | 1.1 | 1 |
| 100 | Motion Control of Underwater Vehicle-Manipulator Systems Using Feedback Linearization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 54-59. | 0.4 | 2 |
| 101 | Design of ride control system for surface effect ships using dissipative control. Automatica, 1995, 31, 183-199. | 5.0 | 47 |
| 102 | Maximum power absorption with active struts. Journal of Guidance, Control, and Dynamics, 1995, 18, 907-908. | 2.8 | 2 |
| 103 | Exponential stabilization of nonholonomic chained systems. IEEE Transactions on Automatic Control, 1995, 40, 35-49. | 5.7 | 495 |
| 104 | Trajectory planning and collision avoidance for underwater vehicles using optimal control. IEEE Journal of Oceanic Engineering, 1994, 19, 502-511. | 3.8 | 48 |
| 105 | Passivity-based adaptive attitude control of a rigid spacecraft. IEEE Transactions on Automatic Control, 1994, 39, 842-846. | 5.7 | 235 |
| 106 | A note on Lyapunov stability for an adaptive robot controller. IEEE Transactions on Automatic Control, 1994, 39, 1671-1673. | 5.7 | 17 |
| 107 | Review of the damped least-squares inverse kinematics with experiments on an industrial robot manipulator. IEEE Transactions on Control Systems Technology, 1994, 2, 123-134. | 5.2 | 243 |
| 108 | Experimental results on controlling a 6-DOF robot manipulator in the neighborhood of kinematic singularities. , 1994, , 1-13. | | 3 |

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| 109 | Bounds on the largest singular value of the manipulator Jacobian. IEEE Transactions on Automation Science and Engineering, 1993, 9, 93-96. | 2.3 | 3 |
| 110 | Coordination of Motion in a Spacecraft/ Manipulator System. International Journal of Robotics Research, 1993, 12, 366-379. | 8.5 | 29 |
| 111 | Robot control in singular configurations " Analysis and experimental results. , 1993, , 25-34. | | 2 |
| 112 | Weighted damped least-squares in kinematic control of robotic manipulators. Advanced Robotics, 1992, 7, 201-218. | 1.8 | 10 |
| 113 | Manipulator control in singular configurations" Motion in degenerate directions. , 1991, , 296-306. | | 5 |
| 114 | Redundancy resolution for the human-arm-like manipulator. Robotics and Autonomous Systems, 1991, 8, 239-250. | 5.1 | 9 |
| 115 | Kinematic Analysis and Singularity Avoidance for a Seven-Joint Manipulator. , 1990, , . | | 7 |
| 116 | Optimal continuous-path control for manipulators with redundant degrees of freedom. Modeling, Identification and Control, 1989, 10, 77-89. | 1.1 | 6 |
| 117 | Cartesian Trajectory Tracking for Manipulators Using Optimal Control Theory. Modeling, Identification and Control, 1987, 8, 137-147. | 1.1 | 3 |
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| 120 | A solution to the blow-up problem in adaptive controllers. Modeling, Identification and Control, 1985, 6, 39-56. | 1.1 | 16 |
| 121 | Task Space Tracking for Manipulators. Modeling, Identification and Control, 1985, 6, 91-101. | 1.1 | 1 |