

Thor Inge Fossen

List of Publications by Year in descending order

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275
papers

15,073
citations

34105

52
h-index

33894

99
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280
all docs

280
docs citations

280
times ranked

5252
citing authors

#	ARTICLE	IF	CITATIONS
1	Vision-based positioning system for auto-docking of unmanned surface vehicles (USVs). International Journal of Intelligent Robotics and Applications, 2022, 6, 86-103.	2.8	19
2	Line-of-sight path-following control utilizing an extended Kalman filter for estimation of speed and course over ground from GNSS positions. Journal of Marine Science and Technology, 2022, 27, 806-813.	2.9	10
3	Hijacking of unmanned surface vehicles: A demonstration of attacks and countermeasures in the field. Journal of Field Robotics, 2022, 39, 631-649.	6.0	7
4	Online wave direction and wave number estimation from surface vessel motions using distributed inertial measurement arrays and phase-time-path-differences. Ocean Engineering, 2022, 249, 110760.	4.3	6
5	Wave motion compensation in dynamic positioning of small autonomous vessels. Journal of Marine Science and Technology, 2021, 26, 693-712.	2.9	17
6	On the Usage of Low-Cost MEMS Sensors, Strapdown Inertial Navigation, and Nonlinear Estimation Techniques in Dynamic Positioning. IEEE Journal of Oceanic Engineering, 2021, 46, 24-39.	3.8	23
7	Object detection, recognition, and tracking from UAVs using a thermal camera. Journal of Field Robotics, 2021, 38, 242-267.	6.0	31
8	A Hybrid Approach to Motion Prediction for Ship Docking—Integration of a Neural Network Model Into the Ship Dynamic Model. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	46
9	A Co-operative Hybrid Model For Ship Motion Prediction. Modeling, Identification and Control, 2021, 42, 17-26.	1.1	5
10	Path planning and collision avoidance for autonomous surface vehicles I: a review. Journal of Marine Science and Technology, 2021, 26, 1292-1306.	2.9	103
11	Mathematical Models of Ships and Underwater Vehicles. , 2021, , 1185-1191.		1
12	Path planning and collision avoidance for autonomous surface vehicles II: a comparative study of algorithms. Journal of Marine Science and Technology, 2021, 26, 1307-1323.	2.9	35
13	Geometric Reduced-Attitude Control of Fixed-Wing UAVs. Applied Sciences (Switzerland), 2021, 11, 3147.	2.5	10
14	Secure and Efficient Transmission of Vision-Based Feedback Control Signals. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	3.4	5
15	Experimental Validation of a Nonlinear Wave Encounter Frequency Estimator Onboard a Wave-Propelled USV. IFAC-PapersOnLine, 2021, 54, 188-194.	0.9	6
16	Five-State Extended Kalman Filter for Estimation of Speed over Ground (SOG), Course over Ground (COG) and Course Rate of Unmanned Surface Vehicles (USVs): Experimental Results. Sensors, 2021, 21, 7910.	3.8	9
17	Cooperative Control for Multirotors Transporting an Unknown Suspended Load Under Environmental Disturbances. IEEE Transactions on Control Systems Technology, 2020, 28, 653-660.	5.2	64
18	Underwater Position and Attitude Estimation Using Acoustic, Inertial, and Depth Measurements. IEEE Journal of Oceanic Engineering, 2020, 45, 1450-1465.	3.8	13

#	ARTICLE	IF	CITATIONS
19	Uniformly semiglobally exponential stability of vector field guidance law and autopilot for path-following. <i>European Journal of Control</i> , 2020, 53, 88-97.	2.6	26
20	A Machine Learning Approach for Estimating Air Data Parameters of Small Fixed-Wing UAVs Using Distributed Pressure Sensors. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 2157-2173.	4.7	17
21	Kalman Filters for Air Data System Bias Correction for a Fixed-Wing UAV. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 2164-2176.	5.2	13
22	Guidance, Navigation, and Control of Fixed-Wing Unmanned Aerial Vehicles. , 2020, , 1-9.		0
23	Reduced-Attitude Control of Fixed-Wing Unmanned Aerial Vehicles Using Geometric Methods on the Two-Sphere. <i>IFAC-PapersOnLine</i> , 2020, 53, 5749-5756.	0.9	8
24	Feedback Linearization Control for Systems with Mismatched Uncertainties via Disturbance Observers. <i>Asian Journal of Control</i> , 2019, 21, 1064-1076.	3.0	24
25	Robust Navigation System for UAVs in GNSS-and Magnetometer-Denied Environments. , 2019, , .		3
26	Dead Reckoning of Dynamically Positioned Ships: Using an Efficient Recurrent Neural Network. <i>IEEE Robotics and Automation Magazine</i> , 2019, 26, 39-51.	2.0	35
27	Nonlinear Observer for Tightly Coupled Integrated Inertial Navigation Aided by RTK-GNSS Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1084-1099.	5.2	13
28	Experimental validation of attitude and rate-sensor bias filter using range-difference measurements. <i>Control Engineering Practice</i> , 2018, 73, 112-123.	5.5	3
29	Redundant MEMS-Based Inertial Navigation Using Nonlinear Observers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	1.6	22
30	Autonomous recovery of a fixed-wing UAV using a net suspended by two multirotor UAVs. <i>Journal of Field Robotics</i> , 2018, 35, 717-731.	6.0	22
31	A virtual vertical reference concept for aided inertial navigation at the sea surface. <i>Control Engineering Practice</i> , 2018, 70, 1-14.	5.5	12
32	Tracking of Ocean Surface Objects from Unmanned Aerial Vehicles with a Pan/Tilt Unit using a Thermal Camera. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 91, 775-793.	3.4	12
33	Nonlinear Observers for GNSS- and Camera-Aided Inertial Navigation of a Fixed-Wing UAV. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1884-1891.	5.2	19
34	A Neural Network Approach to Control Allocation of Ships for Dynamic Positioning. <i>IFAC-PapersOnLine</i> , 2018, 51, 128-133.	0.9	17
35	Aerodynamic modeling of the Skywalker X8 Fixed-Wing Unmanned Aerial Vehicle. , 2018, , .		33
36	Extended Kalman Filter Design and Motion Prediction of Ships Using Live Automatic Identification System (AIS) Data. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
37	Modeling of Underwater Vehicles. , 2018, , 1-9.		1
38	Attitude estimation by multiplicative exogenous Kalman filter. Automatica, 2018, 95, 347-355.	5.0	32
39	Guidance of Autonomous Underwater Vehicles. , 2018, , 1-10.		1
40	eXogenous Kalman Filter (XKF) for Visualization and Motion Prediction of Ships using Live Automatic Identification System (AIS) Data. Modeling, Identification and Control, 2018, 39, 233-244.	1.1	9
41	Direct and indirect adaptive integral line-of-sight path-following controllers for marine craft exposed to ocean currents. International Journal of Adaptive Control and Signal Processing, 2017, 31, 445-463.	4.1	172
42	The eXogenous Kalman Filter (XKF). International Journal of Control, 2017, 90, 161-167.	1.9	49
43	Design of inertial navigation systems for marine craft with adaptive wave filtering aided by triple-redundant sensor packages. International Journal of Adaptive Control and Signal Processing, 2017, 31, 522-544.	4.1	13
44	Robust Navigation of UAV using Inertial Sensors Aided by UWB and RTK GPS. , 2017, , .		16
45	Nonlinear Observer for Tightly Integrated Inertial Navigation Aided by Pseudo-Range Measurements. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	20
46	Nonlinear Control with Swing Damping of a Multirotor UAV with Suspended Load. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 379-394.	3.4	63
47	Spatially indexed clustering for scalable tracking of remotely sensed drift ice. , 2017, , .		7
48	Nonlinear Camera- and GNSS-Aided INS for Fixed-Wing UAV Using the eXogenous Kalman Filter. Lecture Notes in Control and Information Sciences, 2017, , 25-50.	1.0	1
49	Nonlinear Observers for Integrated INS/GNSS Navigation: Implementation Aspects. IEEE Control Systems, 2017, 37, 59-86.	0.8	44
50	Validation of nonlinear integrated navigation solutions. Annual Reviews in Control, 2017, 43, 91-106.	7.9	3
51	Nonlinear observer design for GNSS-aided inertial navigation systems with time-delayed GNSS measurements. Control Engineering Practice, 2017, 60, 39-50.	5.5	22
52	Inertial Sensors for Risk-Based Redundancy in Dynamic Positioning. , 2017, , .		2
53	Dead reckoning of a fixed-wing UAV with inertial navigation aided by optical flow. , 2017, , .		6
54	A UAV ice tracking framework for autonomous sea ice management. , 2017, , .		12

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55	Passivity-based Formation Control for UAVs with a Suspended Load. IFAC-PapersOnLine, 2017, 50, 13150-13155.	0.9	29
56	Detection and Tracking of Floating Objects Using a UAV with Thermal Camera. Lecture Notes in Control and Information Sciences, 2017, , 289-316.	1.0	3
57	Validation and Experimental Testing of Observers for Robust GNSS-Aided Inertial Navigation. , 2016, , .		4
58	Nonlinear filtering with exogenous Kalman filter and double Kalman filter. , 2016, , .		20
59	A Nonlinear Model-Based Wind Velocity Observer for Unmanned Aerial Vehicles. IFAC-PapersOnLine, 2016, 49, 276-283.	0.9	18
60	Three-stage filter for position and velocity estimation from long baseline measurements with unknown wave speed. , 2016, , .		11
61	Tightly coupled integrated inertial and real-time-kinematic positioning approach using nonlinear observer. , 2016, , .		5
62	A globally exponentially stable non-linear velocity observer for vision-aided UAV dead reckoning. , 2016, , .		4
63	Coordinated control concept for recovery of a fixed-wing UAV on a ship using a net carried by multicopter UAVs. , 2016, , .		9
64	Modeling and Control of Underwater Robots. Springer Handbooks, 2016, , 1285-1306.	0.6	17
65	Line-of-sight curved path following for underactuated USVs and AUVs in the horizontal plane under the influence of ocean currents. , 2016, , .		29
66	Tracking of marine surface objects from unmanned aerial vehicles with a pan/tilt unit using a thermal camera and optical flow. , 2016, , .		7
67	Three-stage filter for position estimation using pseudorange measurements. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1631-1643.	4.7	17
68	Attitude and Heave Estimation for Ships using MEMS-based Inertial Measurements. IFAC-PapersOnLine, 2016, 49, 568-575.	0.9	15
69	MEMS-based Inertial Navigation on Dynamically Positioned Ships: Dead Reckoning. IFAC-PapersOnLine, 2016, 49, 139-146.	0.9	13
70	Fault detection in lever-arm-compensated position reference systems based on nonlinear attitude observers and inertial measurements in dynamic positioning. , 2016, , .		7
71	Vision-Aided Nonlinear Observer for Fixed-Wing Unmanned Aerial Vehicle Navigation. Journal of Guidance, Control, and Dynamics, 2016, 39, 1777-1789.	2.8	14
72	Non-linear Model Predictive Control for Longitudinal and Lateral Guidance of a Small Fixed-Wing UAV in Precision Deep Stall Landing. , 2016, , .		23

#	ARTICLE	IF	CITATIONS
73	A Vision-aided Nonlinear Observer for Fixed-wing UAV Navigation. , 2016, , .		4
74	Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements. IEEE Transactions on Control Systems Technology, 2016, 24, 2199-2206.	5.2	17
75	A Virtual Vertical Reference Concept for GNSS/INS Applications at the Sea Surface. IFAC-PapersOnLine, 2015, 48, 127-133.	0.9	11
76	Online Estimation of Ship's Mass and Center of Mass Using Inertial Measurements. IFAC-PapersOnLine, 2015, 48, 134-139.	0.9	5
77	Modeling for IMU-based Online Estimation of a Ship's Mass and Center of Mass. IFAC-PapersOnLine, 2015, 48, 198-203.	0.9	3
78	New concepts for shipboard sea state estimation. , 2015, , .		6
79	Nonlinear observer for inertial navigation aided by pseudo-range and range-rate measurements. , 2015, , .		11
80	Cooperative path-following for multirotor UAVs with a suspended payload. , 2015, , .		23
81	On attitude observers and inertial navigation for reference system fault detection and isolation in dynamic positioning. , 2015, , .		6
82	Nonlinear observer for INS aided by time-delayed GNSS measurements: Implementation and UAV experiments. , 2015, , .		9
83	A lighth-weight thermal camera payload with georeferencing capabilities for small fixed-wing UAVs. , 2015, , .		19
84	On estimation of wind velocity, angle-of-attack and sideslip angle of small UAVs using standard sensors. , 2015, , .		85
85	Non-linear model predictive control for guidance of a fixed-wing UAV in precision deep stall landing. , 2015, , .		20
86	Path following of underwater robots using Lagrange multipliers. Robotics and Autonomous Systems, 2015, 67, 44-52.	5.1	49
87	Experimental verification of a global exponential stable nonlinear wave encounter frequency estimator. Ocean Engineering, 2015, 97, 48-56.	4.3	29
88	Automatic detection, classification and tracking of objects in the ocean surface from UAVs using a thermal camera. , 2015, , .		78
89	Autonomous net recovery of fixed-wing UAV with single-frequency carrier-phase differential GNSS. IEEE Aerospace and Electronic Systems Magazine, 2015, 30, 18-27.	1.3	24
90	Net recovery of UAV with single-frequency RTK GPS. , 2015, , .		9

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91	Nonlinear control of a multicopter UAV with suspended load. , 2015, , .		42
92	Experimental validation of a uniformly semi-globally exponentially stable non-linear observer for GNSS- and camera-aided inertial navigation for fixed-wing UAVs. , 2015, , .		11
93	Cascaded line-of-sight path-following and sliding mode controllers for fixed-wing UAVs. , 2015, , .		5
94	Line-of-Sight Path Following for Dubins Paths With Adaptive Sideslip Compensation of Drift Forces. IEEE Transactions on Control Systems Technology, 2015, 23, 820-827.	5.2	383
95	Globally exponentially stable attitude and gyro bias estimation with application to GNSS/INS integration. Automatica, 2015, 51, 158-166.	5.0	92
96	A uniformly semiglobally exponentially stable nonlinear observer for GNSS- and camera-aided inertial navigation. , 2014, , .		13
97	Suspended load motion control using multicopters. , 2014, , .		10
98	Trajectory tracking and ocean current estimation for marine underactuated vehicles. , 2014, , .		27
99	Observer and IMU-based detection and isolation of faults in position reference systems and gyrocompasses with dual redundancy in dynamic positioning. , 2014, , .		15
100	Integral LOS Path Following for Curved Paths Based on a Monotone Cubic Hermite Spline Parametrization. IEEE Transactions on Control Systems Technology, 2014, 22, 2287-2301.	5.2	283
101	Mathematical Models of Ships and Underwater Vehicles. , 2014, , 1-9.		4
102	Minimization of cross-track and along-track errors for path tracking of marine underactuated vehicles. , 2014, , .		26
103	Nonlinear observer with time-varying gains for inertial navigation aided by satellite reference systems in dynamic positioning. , 2014, , .		17
104	Nonlinear observer for depth-aided INS: Experimental evaluation using an AUV. , 2014, , .		0
105	H Almost output synchronization for heterogeneous networks of introspective agents under external disturbances. Automatica, 2014, 50, 1026-1036.	5.0	164
106	On uniform semiglobal exponential stability (USGES) of proportional line-of-sight guidance laws. Automatica, 2014, 50, 2912-2917.	5.0	201
107	Nonlinear observer for GNSS-aided inertial navigation with quaternion-based attitude estimation. , 2013, , .		46
108	Optimal search mission with Unmanned Aerial Vehicles using Mixed Integer Linear Programming. , 2013, , .		27

#	ARTICLE	IF	CITATIONS
109	Control allocation – A survey. <i>Automatica</i> , 2013, 49, 1087-1103.	5.0	880
110	Mathematical Models of Ships and Underwater Vehicles. , 2013, , 1-1.		0
111	ℋ<inf>∞</inf> almost synchronization for homogeneous networks of non-introspective SISO agents under external disturbances. , 2013, , .		5
112	Speed-varying Path Following for Underactuated Marine Craft. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 79-84.	0.4	3
113	2D Path Following for Marine Craft: A Least-Square Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 98-103.	0.4	10
114	A Globally K-Exponentially Stable Nonlinear Observer for the Wave Encounter Frequency. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 209-214.	0.4	12
115	Heave Motion Estimation on a Craft Using a Strapdown Inertial Measurement Unit. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 298-303.	0.4	8
116	Continuous Curvature Path Planning using Voronoi diagrams and Fermat's spirals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 132-137.	0.4	21
117	A Quaternion-Based LOS Guidance Scheme for Path Following of AUVs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 245-250.	0.4	8
118	Continuous-Curvature Path Generation Using Fermat's Spiral. <i>Modeling, Identification and Control</i> , 2013, 34, 183-198.	1.1	39
119	$\hat{\alpha}$, ∞ almost regulated synchronization and $\hat{\alpha}$, ∞ almost formation for heterogeneous networks under external disturbances. , 2013, , .		0
120	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> , 2012, 134, .	1.6	5
121	HOW TO INCORPORATE WIND, WAVES AND OCEAN CURRENTS IN THE MARINE CRAFT EQUATIONS OF MOTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 126-131.	0.4	29
122	Marine Vessel Path Planning & Guidance Using Potential Flow. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 188-193.	0.4	13
123	Direct Inclusion of Geometric Errors for Path Maneuvering of Marine Craft. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 293-298.	0.4	3
124	Nonlinear Robust Heading Control for Sailing Yachts. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 404-409.	0.4	6
125	A Time-Varying Lookahead Distance Guidance Law for Path Following. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 398-403.	0.4	71
126	Attitude Estimation Using Biased Gyro and Vector Measurements With Time-Varying Reference Vectors. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1332-1338.	5.7	160

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127	A U-Tank Control System for Ships in Parametric Roll Resonance. , 2012, , 239-263.		1
128	Ship Model for Parametric Roll Incorporating the Effects of Time-Varying Speed. , 2012, , 167-189.		2
129	Frequency Detuning Control by Doppler Shift. , 2012, , 193-212.		1
130	Optimal Speed and Heading Control for Stabilization of Parametric Oscillations in Ships. , 2012, , 213-238.		2
131	Leader-follower formation of marine craft using constraint forces and lagrange multipliers. , 2012, , .		8
132	A nonlinear 7-DOF model for U-tanks of arbitrary shape. Ocean Engineering, 2012, 45, 22-37.	4.3	20
133	Motion control of marine craft using virtual positional and velocity constraints. , 2011, , .		1
134	ℒ<inf>1</inf> adaptive and extremum seeking control applied to roll parametric resonance in ships. , 2011, , .		7
135	Attitude Estimation Based on Time-Varying Reference Vectors with Biased Gyro and Vector Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8497-8502.	0.4	11
136	Practical aspects of frequency-domain identification of dynamic models of marine structures from hydrodynamic data. Ocean Engineering, 2011, 38, 426-435.	4.3	82
137	A Lagrangian approach to nonlinear modeling of anti-roll tanks. Ocean Engineering, 2011, 38, 341-359.	4.3	19
138	A Lagrangian framework to incorporate positional and velocity constraints to achieve path-following control. , 2011, , .		5
139	On the Boundedness and Skew-Symmetric Properties of the Inertia and Coriolis Matrices for Vehicle-Manipulator Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 193-198.	0.4	17
140	Extremum Seeking Speed and Heading Control Applied to Parametric Roll Resonance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 28-33.	0.4	8
141	A nonlinear PDE formulation for offshore vessel pipeline installation. Ocean Engineering, 2010, 37, 365-377.	4.3	54
142	Tutorial on Incremental Stability Analysis using Contraction Theory. Modeling, Identification and Control, 2010, 31, 93-106.	1.1	50
143	Stabilization of parametric roll resonance with active u-tanks via Lyapunov control design. , 2009, , .		15
144	Stabilisation of parametric roll resonance by combined speed and fin stabiliser control. , 2009, , .		12

#	ARTICLE	IF	CITATIONS
145	Modeling and Control of Offshore Pipelay Operations Based on a Finite Strain Pipe Model. , 2009, , .		8
146	Mathematical Models for Model-Based Control in Offshore Pipelay Operations. , 2009, , .		4
147	Kalman filtering for positioning and heading control of ships and offshore rigs. IEEE Control Systems, 2009, 29, 32-46.	0.8	210
148	Offshore Pipelay Operations From a Control Perspective. , 2009, , .		4
149	A Robotic Approach to Nonlinear Dynamic Modeling of Offshore Pipelaying Operations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 127-133.	0.4	3
150	MODELING AND CONTROL OF UNDERWAY REPLENISHMENT OPERATIONS IN CALM WATER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 78-85.	0.4	13
151	A Matlab Toolbox for Parametric Identification of Radiation-Force Models of Ships and Offshore Structures. Modeling, Identification and Control, 2009, 30, 1-15.	1.1	134
152	Optimal constrained control allocation in marine surface vessels with rudders. Control Engineering Practice, 2008, 16, 457-464.	5.5	100
153	Nonlinear vehicle side-slip estimation with friction adaptation. Automatica, 2008, 44, 611-622.	5.0	109
154	Underwater Robotics. , 2008, , 987-1008.		51
155	Guidance laws for planar motion control. , 2008, , .		54
156	Genetic Programming for the Automatic Design of Controllers for a Surface Ship. IEEE Transactions on Intelligent Transportation Systems, 2008, 9, 311-321.	8.0	23
157	Ship Formation Control: A Guided Leader-Follower Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 16008-16014.	0.4	65
158	Time- vs. Frequency-domain Identification of Parametric Radiation Force Models for Marine Structures at Zero Speed. Modeling, Identification and Control, 2008, 29, 1-19.	1.1	113
159	Joint Identification of Infinite-Frequency Added Mass and Fluid-Memory Models of Marine Structures. Modeling, Identification and Control, 2008, 29, 93-102.	1.1	21
160	Straight-Line Target Tracking for Unmanned Surface Vehicles. Modeling, Identification and Control, 2008, 29, 131-149.	1.1	154
161	Nonlinear Thrust Controller for Marine Propellers in Four-Quadrant Operations. Proceedings of the American Control Conference, 2007, , .	0.0	24
162	A NOVEL MANOEUVERING MODEL BASED ON LOW-ASPECT-RATIO LIFT THEORY AND LAGRANGIAN MECHANICS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 229-234.	0.4	5

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163	APPLYING MISSILE GUIDANCE CONCEPTS TO MOTION CONTROL OF MARINE CRAFT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 349-354.	0.4	23
164	On non-linear unknown input observersâ€‘applied to lateral vehicle velocity estimation on banked roads. International Journal of Control, 2007, 80, 1741-1750.	1.9	60
165	Passivity-based designs for synchronized path-following. Automatica, 2007, 43, 1508-1518.	5.0	215
166	Path following control system for a tanker ship model. Ocean Engineering, 2007, 34, 2074-2085.	4.3	174
167	Kinematic Models for Manoeuvring and Seakeeping of Marine Vessels. Modeling, Identification and Control, 2007, 28, 19-30.	1.1	47
168	Nonlinear Container Ship Model for the Study of Parametric Roll Resonance. Modeling, Identification and Control, 2007, 28, 87-103.	1.1	42
169	Experimental Validation of a Marine Propeller Thrust Estimation Scheme. Modeling, Identification and Control, 2007, 28, 105-112.	1.1	11
170	Passivity-Based Designs for Synchronized Path Following. , 2006, , .		17
171	Formation Control of Underactuated Surface Vessels using the Null-Space-Based Behavioral Control. , 2006, , .		67
172	A Survey of Control Allocation Methods for Ships and Underwater Vehicles. , 2006, , .		131
173	Nonlinear Vehicle Velocity Observer with Road-Tire Friction Adaptation. , 2006, , .		15
174	Formation Control of Marine Surface Craft: A Lagrangian Approach. IEEE Journal of Oceanic Engineering, 2006, 31, 922-934.	3.8	105
175	Guided Formation Control for Wheeled Mobile Robots. , 2006, , .		14
176	IDENTIFICATION OF NONLINEAR VISCOUS DAMPING FOR MARINE VESSELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 332-337.	0.4	7
177	Vehicle velocity estimation using nonlinear observers. Automatica, 2006, 42, 2091-2103.	5.0	182
178	An Overview of the Marine Systems Simulator (MSS): A Simulink Toolbox for Marine Control Systems. Modeling, Identification and Control, 2006, 27, 259-275.	1.1	58
179	A Survey of Control Allocation Methods for Ships and Underwater Vehicles. , 2006, , .		0
180	MODELING, GUIDANCE AND CONTROL OF â€œESSO OSAKAâ€‘MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 85-90.	0.4	6

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181	Adaptive maneuvering, with experiments, for a model ship in a marine control laboratory. Automatica, 2005, 41, 289-298.	5.0	549
182	Genetic algorithms optimisation of decoupled Sliding Mode controllers: simulated and real results. Control Engineering Practice, 2005, 13, 739-748.	5.5	44
183	A NONLINEAR UNIFIED STATE-SPACE MODEL FOR SHIP MANEUVERING AND CONTROL IN A SEAWAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2717-2746.	1.7	131
184	Efficient Optimal Constrained Control Allocation via Multiparametric Programming. Journal of Guidance, Control, and Dynamics, 2005, 28, 506-515.	2.8	94
185	Robust output maneuvering for a class of nonlinear systems. Automatica, 2004, 40, 373-383.	5.0	271
186	Nonlinear dynamic positioning of ships with gain-scheduled wave filtering. , 2004, , .		24
187	Constrained Nonlinear Control Allocation With Singularity Avoidance Using Sequential Quadratic Programming. IEEE Transactions on Control Systems Technology, 2004, 12, 211-216.	5.2	308
188	Path following of straight lines and circles for marine surface vessels. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 65-70.	0.4	65
189	Modeling, identification, and adaptive maneuvering of CyberShip II: A complete design with experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 203-208.	0.4	106
190	A Nonlinear Ship Manoeuvring Model: Identification and adaptive control with experiments for a model ship. Modeling, Identification and Control, 2004, 25, 3-27.	1.1	152
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