## Tor Arne Johansen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ship Collision Avoidance Utilizing the Cross-Entropy Method for Collision Risk Assessment. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11148-11161.	8.0	10
2	Ocean Color Hyperspectral Remote Sensing With High Resolution and Low Latency—The HYPSO-1 CubeSat Mission. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	25
3	Electronic Navigational Charts for Visualization, Simulation, and Autonomous Ship Control. IEEE Access, 2022, 10, 3716-3737.	4.2	16
4	Collaborative collision avoidance for Maritime Autonomous Surface Ships: A review. Ocean Engineering, 2022, 250, 110920.	4.3	43
5	Multiple Model Predictive Control for Nonlinear Systems Based on Self-Balanced Multimodel Decomposition. Industrial & Engineering Chemistry Research, 2022, 61, 487-501.	3.7	2
6	Predicting the Speed of a Wave-Propelled Autonomous Surface Vehicle Using Metocean Forecasts. , 2022, , .		0
7	ENC-based Anti-Grounding and Anti-Collision System for a Wave-Propelled USV. , 2022, , .		0
8	UAV Icing: A Unified Icing Severity Index Derived from Performance Degradation. , 2022, , .		5
9	A Comparative Study of Compressive Sensing Algorithms for Hyperspectral Imaging Reconstruction. , 2022, , .		3
10	Wave motion compensation in dynamic positioning of small autonomous vessels. Journal of Marine Science and Technology, 2021, 26, 693-712.	2.9	17
11	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
12	Autonomous Recovery of a Fixed-Wing UAV Using a Line Suspended Between Two Multirotor UAVs. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 90-104.	4.7	9
13	Object detection, recognition, and tracking from UAVs using a thermal camera. Journal of Field Robotics, 2021, 38, 242-267.	6.0	31
14	Unmanned aircraft flight control aided by phasedâ€array radio navigation. Journal of Field Robotics, 2021, 38, 532-551.	6.0	3
15	Precision Deep-Stall Landing of Fixed-Wing UAVs Using Nonlinear Model Predictive Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	18
16	Reinforcement Learning of the Prediction Horizon in Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 314-320.	0.9	14
17	Control of Fixed-Wing UAV Attitude and Speed based on Embedded Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 91-98.	0.9	9
18	Experimental Heat Loads for Electrothermal Anti-Icing and De-Icing on UAVs. Aerospace, 2021, 8, 83.	2.2	35

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19	Atmospheric Correction of Hyperspectral Data Over Coastal Waters Based on Machine Learning Models. , 2021, , .		2
20	MBSE modeling of a SoS with a small satellite and autonomous surface vessels for persistent coastal monitoring. , 2021, , .		3
21	Design of a hyperspectral imager using COTS optics for small satellite applications. , 2021, , .		17
22	Camera-Based Tracking of Floating Objects using Fixed-wing UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	6
23	Energy optimal attitude control for a solar-powered spacecraft. European Journal of Control, 2021, 62, 192-197.	2.6	9
24	A Satellite-USV System for Persistent Observation of Mesoscale Oceanographic Phenomena. Remote Sensing, 2021, 13, 3229.	4.0	15
25	Dynamic positioning of ROV in the wave zone during launch and recovery from a small surface vessel. Ocean Engineering, 2021, 235, 109382.	4.3	7
26	Semiglobally Asymptotically Stable Nonlinear Observer for Camera Aided Navigation. IEEE Transactions on Control Systems Technology, 2021, 29, 2279-2286.	5.2	2
27	Multi-Agent Formation Tracking for Autonomous Surface Vehicles. IEEE Transactions on Control Systems Technology, 2021, 29, 2287-2298.	5.2	32
28	Fuzzy domain and meta-heuristic algorithm-based collision avoidance control for ships: Experimental validation in virtual and real environment. Ocean Engineering, 2021, 220, 108502.	4.3	36
29	Self-Organizing Maps for Clustering Hyperspectral Images On-Board a CubeSat. Remote Sensing, 2021, 13, 4174.	4.0	7
30	Experimental Validation of a Nonlinear Wave Encounter Frequency Estimator Onboard a Wave-Propelled USV. IFAC-PapersOnLine, 2021, 54, 188-194.	0.9	6
31	Control System Architecture for Automatic Recovery of Fixed-Wing Unmanned Aerial Vehicles in a Moving Arrest System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	3.4	3
32	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
33	A Machine Learning Approach for Estimating Air Data Parameters of Small Fixed-Wing UAVs Using Distributed Pressure Sensors. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2157-2173.	4.7	17
34	Kalman Filters for Air Data System Bias Correction for a Fixed-Wing UAV. IEEE Transactions on Control Systems Technology, 2020, 28, 2164-2176.	5.2	13
35	Moving Horizon Estimation of Air Data Parameters for UAVs. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2101-2121.	4.7	21
36	Globally stable velocity estimation using normalized velocity measurement. International Journal of Robotics Research, 2020, 39, 143-157.	8.5	2

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37	Real-Time Moving Horizon Estimation of Air Data Parameters and Wind Velocities for fixed-wing UAVs. , 2020, , .		Ο
38	Range-based target localization and pursuit with autonomous vehicles: An approach using posterior CRLB and model predictive control. Robotics and Autonomous Systems, 2020, 132, 103608.	5.1	14
39	Long-Range Path Planning Using an Aircraft Performance Model for Battery-Powered sUAS Equipped With Icing Protection System. IEEE Journal on Miniaturization for Air and Space Systems, 2020, 1, 76-89.	2.7	15
40	A reconfigurable multi-mode implementation of hyperspectral target detection algorithms. Microprocessors and Microsystems, 2020, 78, 103258.	2.8	7
41	Reservoir characterization in under-balanced drilling with nonlinear Moving Horizon Estimation with manual and automatic control conditions. Journal of Petroleum Science and Engineering, 2020, 192, 107248.	4.2	3
42	Multi-agent informed path planning using the probability hypothesis density. Autonomous Robots, 2020, 44, 913-925.	4.8	13
43	On the Stability Bounds of Kalman Filters for Linear Deterministic Discrete-Time Systems. IEEE Transactions on Automatic Control, 2020, 65, 4434-4439.	5.7	4
44	Autonomous ballistic airdrop of objects from a small fixed-wing unmanned aerial vehicle. Autonomous Robots, 2020, 44, 859-875.	4.8	13
45	Hybrid Control of Fixed-Wing UAVs for Large-Angle Attitude Maneuvers on the Two-Sphere. IFAC-PapersOnLine, 2020, 53, 5717-5724.	0.9	7
46	Spacecraft Attitude and Angular Rate Tracking using Reaction Wheels and Magnetorquers. IFAC-PapersOnLine, 2020, 53, 14819-14826.	0.9	5
47	Risk-Based Model Predictive Control for Autonomous Ship Emergency Management. IFAC-PapersOnLine, 2020, 53, 14524-14531.	0.9	14
48	On-line calibration of spectroscopic sensors based on state observers. IFAC-PapersOnLine, 2020, 53, 11681-11685.	0.9	1
49	On Collision Risk Assessment for Autonomous Ships Using Scenario-Based MPC. IFAC-PapersOnLine, 2020, 53, 14509-14516.	0.9	11
50	Accelerating Reinforcement Learning with Suboptimal Guidance. IFAC-PapersOnLine, 2020, 53, 8090-8096.	0.9	0
51	Adaptive vibration attenuation with globally convergent parameter estimation. Mechanical Systems and Signal Processing, 2019, 114, 512-527.	8.0	0
52	Risk-Based Obstacle Avoidance in Unknown Environments using Scenario-Based Predictive Control for an Inspection Drone Equipped with Range Finding Sensors. , 2019, , .		3
53	An FPGA-oriented HW/SW Codesign of Lucy-Richardson Deconvolution Algorithm for Hyperspectral Images. , 2019, , .		6
54	Pose Estimation of UAVs Based on INS Aided by Two Independent Low-Cost GNSS Receivers. , 2019, , .		3

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55	Guaranteed feasible control allocation using model predictive control. Control Theory and Technology, 2019, 17, 252-264.	1.6	10
56	Track-to-track data fusion for Unmanned Traffic Management System. , 2019, , .		7
57	Icing Detection for Small Fixed Wing UAVs using Inflight Aerodynamic Coefficient Estimation. , 2019, , .		3
58	Autonomous Unmanned Aerial Vehicles in Search and Rescue Missions Using Real-Time Cooperative Model Predictive Control. Sensors, 2019, 19, 4067.	3.8	45
59	Improved predictions from measured disturbances in linear model predictive control. Journal of Process Control, 2019, 75, 86-106.	3.3	17
60	Real-time georeferencing of thermal images using small fixed-wing UAVs in maritime environments. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 84-97.	11.1	22
61	A Parallel FPGA Implementation of the CCSDS-123 Compression Algorithm. Remote Sensing, 2019, 11, 673.	4.0	31
62	A Fault Tolerant Control Scheme Using the Feasible Constrained Control Allocation Strategy. International Journal of Automation and Computing, 2019, 16, 628-643.	4.5	8
63	Distributed control architecture for real-time model predictive control for system-level harmonic mitigation in power systems. ISA Transactions, 2019, 93, 231-243.	5.7	6
64	Long-Endurance Green Energy Autonomous Surface Vehicle Control Architecture. , 2019, , .		16
65	State observer design for quadratic parameter varying (QPV) systems. , 2019, , .		2
66	GNSS-antenna lever arm compensation in aided inertial navigation of UAVs. , 2019, , .		3
67	A Survey of Practical Design Considerations of Optical Imaging Stabilization Systems for Small Unmanned Aerial Systems. Sensors, 2019, 19, 4800.	3.8	12
68	Robust fault and icing diagnosis in unmanned aerial vehicles using LPV interval observers. International Journal of Robust and Nonlinear Control, 2019, 29, 5456-5480.	3.7	21
69	Advancing multi-vehicle deployments in oceanographic field experiments. Autonomous Robots, 2019, 43, 1555-1574.	4.8	19
70	Nonlinear Observer for Tightly Coupled Integrated Inertial Navigation Aided by RTK-GNSS Measurements. IEEE Transactions on Control Systems Technology, 2019, 27, 1084-1099.	5.2	13
71	Extremum-Seeking Control for Harmonic Mitigation in Electrical Grids of Marine Vessels. IEEE Transactions on Industrial Electronics, 2019, 66, 500-508.	7.9	8
72	Survey on Communication and Networks for Autonomous Marine Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 789-813.	3.4	78

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73	The effect of dimensionality reduction on signature-based target detection for hyperspectral remote sensing. , 2019, , .		5
74	A homotopy-based moving horizon estimation. International Journal of Control, 2019, 92, 1672-1681.	1.9	0
75	Analysis and design of quadratic parameter varying (QPV) control systems with polytopic attractive region. Journal of the Franklin Institute, 2018, 355, 3488-3507.	3.4	13
76	Globally exponentially stable filters for underwater position estimation using an array of hydroacoustic transducers on the vehicle and a single transponder. Ocean Engineering, 2018, 155, 351-360.	4.3	2
77	Redundant MEMS-Based Inertial Navigation Using Nonlinear Observers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	22
78	Autonomous recovery of a fixedâ€wing UAV using a net suspended by two multirotor UAVs. Journal of Field Robotics, 2018, 35, 717-731.	6.0	22
79	Combinatorial Approach Toward Multiparametric Quadratic Programming Based on Characterizing Adjacent Critical Regions. IEEE Transactions on Automatic Control, 2018, 63, 3221-3231.	5.7	23
80	A virtual vertical reference concept for aided inertial navigation at the sea surface. Control Engineering Practice, 2018, 70, 1-14.	5.5	12
81	Tracking of Ocean Surface Objects from Unmanned Aerial Vehicles with a Pan/Tilt Unit using a Thermal Camera. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 775-793.	3.4	12
82	Diagnosis of Icing and Actuator Faults in UAVs Using LPV Unknown Input Observers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 651-665.	3.4	19
83	Faultâ€Tolerant Control Allocation for Overactuated Nonlinear Systems. Asian Journal of Control, 2018, 20, 621-634.	3.0	9
84	Nonlinear Observers for GNSS- and Camera-Aided Inertial Navigation of a Fixed-Wing UAV. IEEE Transactions on Control Systems Technology, 2018, 26, 1884-1891.	5.2	19
85	Fault tolerant control of uncertain dynamical systems using interval virtual actuators. International Journal of Robust and Nonlinear Control, 2018, 28, 611-624.	3.7	17
86	Path Planning of Multi-UAS Communication Relay by Decentralized MPC. , 2018, , .		1
87	Detectability of Objects at the Sea Surface in Visible Light and Thermal Camera Images. , 2018, , .		8
88	Towards autonomous ocean observing systems using Miniature Underwater Gliders with UAV deployment and recovery capabilities. , 2018, , .		4
89	Distributed Quasi-Nonlinear Model Predictive Control with Contractive Constraint. IFAC-PapersOnLine, 2018, 51, 41-47.	0.9	3
90	Adaptive Sampling of Ocean Processes Using an AUV with a Gaussian Proxy Model. IFAC-PapersOnLine, 2018, 51, 238-243.	0.9	13

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91	Localization of an Acoustic Fish-Tag using the Time-of-Arrival Measurements: Preliminary results using eXogenous Kalman Filter. , 2018, , .		2
92	Exogenous Kalman Filter for State-of-Charge Estimation in Lithium-Ion Batteries. , 2018, , .		12
93	Cooperative Rendezvous and Docking for Underwater Robots using Model Predictive Control and Dual Decomposition. , 2018, , .		6
94	Robust and Secure UAV Navigation Using GNSS, Phased-Array Radio System and Inertial Sensor Fusion. , 2018, , .		5
95	An Efficient Real-Time FPGA Implementation of the CCSDS-123 Compression Standard for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3841-3852.	4.9	37
96	Aerodynamic modeling of the Skywalker X8 Fixed-Wing Unmanned Aerial Vehicle. , 2018, , .		33
97	Inclusion of Horizontal Wind Maps in Path Planning Optimization of UAS. , 2018, , .		5
98	Model-Based Actuator Fault Diagnosis in Multirotor UAVs. , 2018, , .		33
99	On the accuracy of gradient estimation in extremum-seeking control using small perturbations. Automatica, 2018, 95, 23-32.	5.0	5
100	Phased array radio system aided inertial navigation for unmanned aerial vehicles. , 2018, , .		9
101	Aided inertial navigation of small unmanned aerial vehicles using an ultra-wideband real time localization system. , 2018, , .		6
102	Attitude estimation by multiplicative exogenous Kalman filter. Automatica, 2018, 95, 347-355.	5.0	32
103	Do it yourself hyperspectral imager for handheld to airborne operations. Optics Express, 2018, 26, 6021.	3.4	73
104	User-Configurable Timing and Navigation for UAVs. Sensors, 2018, 18, 2468.	3.8	20
105	Skyline based camera attitude estimation using a digital surface model. , 2018, , .		3
106	Double Moving Horizon Estimation: Linearization by a Nonlinear Transformation. , 2018, , .		1
107	Toward Dependable Embedded Model Predictive Control. IEEE Systems Journal, 2017, 11, 1208-1219.	4.6	56
108	The eXogenous Kalman Filter (XKF). International Journal of Control, 2017, 90, 161-167.	1.9	49

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109	Design of inertial navigation systems for marine craft with adaptive wave filtering aided by tripleâ€redundant sensor packages. International Journal of Adaptive Control and Signal Processing, 2017, 31, 522-544.	4.1	13
110	Model predictive control for a multi-body slung-load system. Robotics and Autonomous Systems, 2017, 92, 1-11.	5.1	49
111	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
112	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
113	Spatially indexed clustering for scalable tracking of remotely sensed drift ice. , 2017, , .		7
114	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
115	Nonlinear Observers for Integrated INS/GNSS Navigation: Implementation Aspects. IEEE Control Systems, 2017, 37, 59-86.	0.8	44
116	Nonlinear observer design for GNSS-aided inertial navigation systems with time-delayed GNSS measurements. Control Engineering Practice, 2017, 60, 39-50.	5.5	22
117	Inertial Sensors for Risk-Based Redundancy in Dynamic Positioning. , 2017, , .		2
118	Flight test results for autonomous icing protection solution for small unmanned aircraft. , 2017, , .		7
119	Autonomous UAV surveillance of a ship's path with MPC for maritime situational awareness. , 2017, , .		7
120	Mission performance trade-offs of battery-powered sUAS. , 2017, , .		6
121	SyncBoard - A high accuracy sensor timing board for UAV payloads. , 2017, , .		11
122	A UAV ice tracking framework for autonomous sea ice management. , 2017, , .		12
123	Estimation of wind velocities and aerodynamic coefficients for UAVs using standard autopilot sensors and a Moving Horizon Estimator. , 2017, , .		16
124	Cooperative remote sensing of ice using a Spatially Indexed Labeled Multi-Bernoulli filter. , 2017, , .		0
125	lcing detection and identification for unmanned aerial vehicles using adaptive nested multiple models. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1584-1607.	4.1	12
126	Coordinated maritime missions of unmanned vehicles $\hat{a} {\in} "$ Network architecture and performance analysis. , 2017, , .		11

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127	Asymptotic Stability of Perturbation-Based Extremum-Seeking Control for Nonlinear Plants. IEEE Transactions on Automatic Control, 2017, 62, 2302-2317.	5.7	21
128	Battery Power Smoothing Control in a Marine Electric Power Plant Using Nonlinear Model Predictive Control. IEEE Transactions on Control Systems Technology, 2017, 25, 1449-1456.	5.2	46
129	Unmanned Aerial Vehicles as Data Mules: An Experimental Assessment. IEEE Access, 2017, 5, 24716-24726.	4.2	22
130	Approach Methods for Autonomous Precision Aerial Drop from a Small Unmanned Aerial Vehicle. IFAC-PapersOnLine, 2017, 50, 3566-3573.	0.9	8
131	Contingency path planning for hybrid-electric UAS. , 2017, , .		4
132	Optimal path of a UAV engaged in wind-influenced circular towing. , 2017, , .		3
133	Redesign and analysis of globally asymptotically stable bearing only SLAM. , 2017, , .		10
134	Integrated Monitoring of Mola mola Behaviour in Space and Time. PLoS ONE, 2016, 11, e0160404.	2.5	22
135	Nonlinear filtering with exogenous Kalman filter and double Kalman filter. , 2016, , .		20
136	Control allocation overview and application to marine vessel control. , 2016, , .		0
137	On degeneracy in exploration of combinatorial tree in multi-parametric quadratic programming. , 2016, , .		2
138	Enhanced Hydroacoustic Range Robustness of Three-Stage Position Filter based on Long Baseline Measurements with Unknown Wave Speed**This work is supported by the Center of Autonomous Marine Operations and Systems (AMOS), grant no. 223254 IFAC-PapersOnLine, 2016, 49, 61-67.	0.9	9
139	A Nonlinear Model-Based Wind Velocity Observer for Unmanned Aerial Vehicles. IFAC-PapersOnLine, 2016, 49, 276-283.	0.9	18
140	An unknown input observer based control allocation scheme for icing diagnosis and accommodation in overactuated UAVs. , 2016, , .		3
141	Dynamic Positioning With Model Predictive Control. IEEE Transactions on Control Systems Technology, 2016, 24, 1340-1353.	5.2	139
142	Efficient implementation of step response models for embedded Model Predictive Control. Computers and Chemical Engineering, 2016, 90, 121-135.	3.8	8
143	Ship Collision Avoidance and COLREGS Compliance Using Simulation-Based Control Behavior Selection With Predictive Hazard Assessment. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3407-3422.	8.0	208
144	Distributed Nonlinear Model Predictive Control by Sequential Linearization and Accelerated Gradient Method. IFAC-PapersOnLine, 2016, 49, 597-602.	0.9	4

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145	Tightly coupled integrated inertial and real-time-kinematic positioning approach using nonlinear observer. , 2016, , .		5
146	A globally exponentially stable non-linear velocity observer for vision-aided UAV dead reckoning. , 2016, , .		4
147	Coordinated control concept for recovery of a fixed-wing UAV on a ship using a net carried by multirotor UAVs. , 2016, , .		9
148	Feasibility study of a circularly towed cable-body system for UAV applications. , 2016, , .		4
149	Data-Driven decision support tool for power quality measures in marine vessel power system. , 2016, , .		0
150	Detection of icing and actuators faults in the longitudinal dynamics of small UAVs using an LPV proportional integral unknown input observer. , 2016, , .		7
151	Unmanned aerial surveillance system for hazard collision avoidance in autonomous shipping. , 2016, , .		20
152	Combining model-free and model-based angle of attack estimation for small fixed-wing UAVs using a standard sensor suite. , 2016, , .		23
153	Three-stage filter for position estimation using pseudorange measurements. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1631-1643.	4.7	17
154	Attitude and Heave Estimation for Ships using MEMS-based Inertial Measurements. IFAC-PapersOnLine, 2016, 49, 568-575.	0.9	15
155	MEMS-based Inertial Navigation on Dynamically Positioned Ships: Dead Reckoning. IFAC-PapersOnLine, 2016, 49, 139-146.	0.9	13
156	Fault detection in lever-arm-compensated position reference systems based on nonlinear attitude observers and inertial measurements in dynamic positioning. , 2016, , .		7
157	Further results on the exploration of combinatorial tree in multi-parametric quadratic programming. , 2016, , .		5
158	A communication bridge between underwater sensors and unmanned vehicles using a surface wireless sensor network - design and validation. , 2016, , .		16
159	Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements. IEEE Transactions on Control Systems Technology, 2016, 24, 2199-2206.	5.2	17
160	System-Wide Harmonic Mitigation in a Diesel-Electric Ship by Model Predictive Control. IEEE Transactions on Industrial Electronics, 2016, 63, 4008-4019.	7.9	30
161	A Virtual Vertical Reference Concept for GNSS/INS Applications at the Sea Surface. IFAC-PapersOnLine, 2015, 48, 127-133.	0.9	11
162	Online Estimation of Ship's Mass and Center of Mass Using Inertial Measurements. IFAC-PapersOnLine, 2015, 48, 134-139.	0.9	5

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163	Modeling for IMU-based Online Estimation of a Ship's Mass and Center of Mass. IFAC-PapersOnLine, 2015, 48, 198-203.	0.9	3
164	Fault diagnosis and fault-tolerant control allocation for a class of nonlinear systems with redundant inputs. , 2015, , .		7
165	Marine Vessel and Power Plant System Simulator. IEEE Access, 2015, 3, 2065-2079.	4.2	51
166	Unmanned aerial system architecture for maritime missions. design & hardware description. , 2015, , .		18
167	Moving Horizon Estimation for Integrated Navigation Filtering**This work is supported by the ANR project entitled Hamiltonian Methods for the Control of Multidomain Distributed Parameter Systems, HAMECMOPSYS financed by the French National Research Agency. Further information is available at http://www.hamecmopsys.ens2m.fr/ IFAC-PapersOnLine. 2015. 48. 519-526.	0.9	10
168	UAVs Trajectory Planning by Distributed MPC under Radio Communication Path Loss Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 115-134.	3.4	46
169	Nonlinear observer for inertial navigation aided by pseudo-range and range-rate measurements. , 2015, , .		11
170	lcing detection in unmanned aerial vehicles with longitudinal motion using an LPV unknown input observer. , 2015, , .		12
171	Cooperative path-following for multirotor UAVs with a suspended payload. , 2015, , .		23
172	An unknown input observer approach to icing detection for unmanned aerial vehicles with linearized longitudinal motion. , 2015, , .		10
173	On attitude observers and inertial navigation for reference system fault detection and isolation in dynamic positioning. , 2015, , .		6
174	Nonlinear observer for INS aided by time-delayed GNSS measurements: Implementation and UAV experiments. , 2015, , .		9
175	A ligth-weight thermal camera payload with georeferencing capabilities for small fixed-wing UAVs. , 2015, , .		19
176	On estimation of wind velocity, angle-of-attack and sideslip angle of small UAVs using standard sensors. , 2015, , .		85
177	Autonomous visual navigation of Unmanned Aerial Vehicle for wind turbine inspection. , 2015, , .		49
178	Non-linear model predictive control for guidance of a fixed-wing UAV in precision deep stall landing. , 2015, , .		20
179	Automatic detection, classification and tracking of objects in the ocean surface from UAVs using a thermal camera. , 2015, , .		78
180	Optimization of Wireless Sensor Network and UAV Data Acquisition. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 159-179.	3.4	110

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181	Integrated Multilinear Model Predictive Control of Nonlinear Systems Based on Gap Metric. Industrial & Engineering Chemistry Research, 2015, 54, 6002-6011.	3.7	29
182	Autonomous search and tracking of objects using model predictive control of unmanned aerial vehicle and gimbal: Hardware-in-the-loop simulation of payload and avionics. , 2015, , .		14
183	Management of harmonic propagation in a marine vessel by use of optimization. , 2015, , .		7
184	Net recovery of UAV with single-frequency RTK GPS. , 2015, , .		9
185	Optimized current reference generation for system-level harmonic mitigation in a diesel-electric ship using non-linear model predictive control. , 2015, , .		9
186	Nonlinear control of a multirotor UAV with suspended load. , 2015, , .		42
187	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
188	lcing detection and identification for unmanned aerial vehicles: Multiple model adaptive estimation. , 2015, , .		22
189	Estimation of Flow Rate and Viscosity in a Well with an Electric Submersible Pump using Moving Horizon Estimationâ^_â^_This work is funded by the Research Council of Norway and Statoil through the PETROMAKS project No. 215684: Enabling High-Performance Safety-Critical Offshore and Subsea Automatic Control Systems Using Embedded Optimization (emOpt). IFAC-PapersOnLine, 2015, 48, 140-146.	0.9	22
190	Globally exponentially stable attitude and gyro bias estimation with application to GNSS/INS integration. Automatica, 2015, 51, 158-166.	5.0	92
191	A uniformly semiglobally exponentially stable nonlinear observer for GNSS- and camera-aided inertial navigation. , 2014, , .		13
192	Unmanned aerial vehicle as communication relay for autonomous underwater vehicle $\hat{a} \in $ " Field tests. , 2014, , .		45
193	Fault-tolerant control allocation with actuator dynamics: Finite-time control reconfiguration. , 2014, , .		8
194	Suspended load motion control using multicopters. , 2014, , .		10
195	Nonlinear Moving Horizon Observer for Estimation of States and Parameters in Under-Balanced Drilling Operations. , 2014, , .		7
196	Observer and IMU-based detection and isolation of faults in position reference systems and gyrocompasses with dual redundancy in dynamic positioning. , 2014, , .		15
197	Coordinating UAVs and AUVs for oceanographic field experiments: Challenges and lessons learned. , 2014, , .		35
198	Nonlinear observer with time-varying gains for inertial navigation aided by satellite reference systems		17

in dynamic positioning. , 2014, , .

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199	Experiences with coastal and maritime UAS BLOS operation with phased-array antenna digital payload data link. , 2014, , .		14
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