

Tor Arne Johansen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2126813/tor-arne-johansen-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291
papers

5,424
citations

35
h-index

63
g-index

310
ext. papers

7,048
ext. citations

3.3
avg, IF

6.51
L-index

#	Paper	IF	Citations
291	Adaptive Underwater Robotic Sampling of Dispersal Dynamics in the Coastal Ocean. <i>Springer Proceedings in Advanced Robotics</i> , 2022 , 610-625	0.6	
290	Collaborative collision avoidance for Maritime Autonomous Surface Ships: A review. <i>Ocean Engineering</i> , 2022 , 250, 110920	3.9	3
289	Multiple Model Predictive Control for Nonlinear Systems Based on Self-Balanced Multimodel Decomposition. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 487-501	3.9	
288	Control System Architecture for Automatic Recovery of Fixed-Wing Unmanned Aerial Vehicles in a Moving Arrest System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	1
287	Electronic Navigational Charts for Visualization, Simulation, and Autonomous Ship Control. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
286	Self-Organizing Maps for Clustering Hyperspectral Images On-Board a CubeSat. <i>Remote Sensing</i> , 2021 , 13, 4174	5	2
285	Experimental Validation of a Nonlinear Wave Encounter Frequency Estimator Onboard a Wave-Propelled USV. <i>IFAC-PapersOnLine</i> , 2021 , 54, 188-194	0.7	2
284	Experimental Heat Loads for Electrothermal Anti-Icing and De-Icing on UAVs. <i>Aerospace</i> , 2021 , 8, 83	2.5	6
283	Atmospheric Correction of Hyperspectral Data Over Coastal Waters Based on Machine Learning Models 2021 ,		1
282	Camera-Based Tracking of Floating Objects using Fixed-wing UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 102, 1	2.9	2
281	Energy optimal attitude control for a solar-powered spacecraft. <i>European Journal of Control</i> , 2021 , 62, 192-192	2.5	1
280	On the Usage of Low-Cost MEMS Sensors, Strapdown Inertial Navigation, and Nonlinear Estimation Techniques in Dynamic Positioning. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 24-39	3.3	12
279	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 57, 90-104	3.7	6
278	Object detection, recognition, and tracking from UAVs using a thermal camera. <i>Journal of Field Robotics</i> , 2021 , 38, 242-267	6.7	6
277	Unmanned aircraft flight control aided by phased-array radio navigation. <i>Journal of Field Robotics</i> , 2021 , 38, 532-551	6.7	1
276	Precision Deep-Stall Landing of Fixed-Wing UAVs Using Nonlinear Model Predictive Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 101, 1	2.9	5
275	Reinforcement Learning of the Prediction Horizon in Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 314-320	0.7	0

274	Ship Collision Avoidance Utilizing the Cross-Entropy Method for Collision Risk Assessment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14	6.1	2
273	Ocean Color Hyperspectral Remote Sensing With High Resolution and Low Latency--The HYPSON-1 CubeSat Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-19	8.1	3
272	Control of Fixed-Wing UAV Attitude and Speed based on Embedded Nonlinear Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 91-98	0.7	1
271	A Satellite-USV System for Persistent Observation of Mesoscale Oceanographic Phenomena. <i>Remote Sensing</i> , 2021 , 13, 3229	5	4
270	Dynamic positioning of ROV in the wave zone during launch and recovery from a small surface vessel. <i>Ocean Engineering</i> , 2021 , 235, 109382	3.9	0
269	Semiglobally Asymptotically Stable Nonlinear Observer for Camera Aided Navigation. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 2279-2286	4.8	1
268	Multi-Agent Formation Tracking for Autonomous Surface Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-12	4.8	7
267	Fuzzy domain and meta-heuristic algorithm-based collision avoidance control for ships: Experimental validation in virtual and real environment. <i>Ocean Engineering</i> , 2021 , 220, 108502	3.9	7
266	Reservoir characterization in under-balanced drilling with nonlinear Moving Horizon Estimation with manual and automatic control conditions. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 192, 107248	4.4	2
265	Multi-agent informed path planning using the probability hypothesis density. <i>Autonomous Robots</i> , 2020 , 44, 913-925	3	7
264	On the Stability Bounds of Kalman Filters for Linear Deterministic Discrete-Time Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4434-4439	5.9	0
263	On-line calibration of spectroscopic sensors based on state observers. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11681-11685	6.7	1
262	On Collision Risk Assessment for Autonomous Ships Using Scenario-Based MPC. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14509-14516	0.7	0
261	Accelerating Reinforcement Learning with Suboptimal Guidance. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8090-8096	6.7	1
260	Spacecraft Attitude and Angular Rate Tracking using Reaction Wheels and Magnetorquers. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14819-14826	0.7	1
259	Risk-Based Model Predictive Control for Autonomous Ship Emergency Management. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14524-14531	0.7	3
258	Autonomous ballistic airdrop of objects from a small fixed-wing unmanned aerial vehicle. <i>Autonomous Robots</i> , 2020 , 44, 859-875	3	9
257	Hybrid Control of Fixed-Wing UAVs for Large-Angle Attitude Maneuvers on the Two-Sphere. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5717-5724	0.7	2

256	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 2101-2121	3.7	8
255	Globally stable velocity estimation using normalized velocity measurement. <i>International Journal of Robotics Research</i> , 2020 , 39, 143-157	5.7	1
254	Range-based target localization and pursuit with autonomous vehicles: An approach using posterior CRLB and model predictive control. <i>Robotics and Autonomous Systems</i> , 2020 , 132, 103608	3.5	6
253	Long-Range Path Planning Using an Aircraft Performance Model for Battery-Powered sUAS Equipped With Icing Protection System. <i>IEEE Journal on Miniaturization for Air and Space Systems</i> , 2020 , 1, 76-89	1.5	2
252	A reconfigurable multi-mode implementation of hyperspectral target detection algorithms. <i>Microprocessors and Microsystems</i> , 2020 , 78, 103258	2.4	3
251	Wave motion compensation in dynamic positioning of small autonomous vessels. <i>Journal of Marine Science and Technology</i> , 2020 , 26, 693	1.7	7
250	Cooperative Control for Multirotors Transporting an Unknown Suspended Load Under Environmental Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 653-660	4.8	28
249	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 2157-2173	3.7	7
248	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	4.8	3
247	Autonomous Unmanned Aerial Vehicles in Search and Rescue Missions Using Real-Time Cooperative Model Predictive Control. <i>Sensors</i> , 2019 , 19,	3.8	21
246	Improved predictions from measured disturbances in linear model predictive control. <i>Journal of Process Control</i> , 2019 , 75, 86-106	3.9	8
245	Real-time georeferencing of thermal images using small fixed-wing UAVs in maritime environments. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 154, 84-97	11.8	14
244	A Parallel FPGA Implementation of the CCSDS-123 Compression Algorithm. <i>Remote Sensing</i> , 2019 , 11, 673	5	24
243	A Fault Tolerant Control Scheme Using the Feasible Constrained Control Allocation Strategy. <i>International Journal of Automation and Computing</i> , 2019 , 16, 628-643	3.5	3
242	Adaptive vibration attenuation with globally convergent parameter estimation. <i>Mechanical Systems and Signal Processing</i> , 2019 , 114, 512-527	7.8	
241	Risk-Based Obstacle Avoidance in Unknown Environments using Scenario-Based Predictive Control for an Inspection Drone Equipped with Range Finding Sensors 2019 ,		1
240	An FPGA-oriented HW/SW Codesign of Lucy-Richardson Deconvolution Algorithm for Hyperspectral Images 2019 ,		3
239	Pose Estimation of UAVs Based on INS Aided by Two Independent Low-Cost GNSS Receivers 2019 ,		2

238	Guaranteed feasible control allocation using model predictive control. <i>Control Theory and Technology</i> , 2019 , 17, 252-264	1	8
237	Track-to-track data fusion for Unmanned Traffic Management System 2019 ,		4
236	The effect of dimensionality reduction on signature-based target detection for hyperspectral remote sensing 2019 ,		4
235	A homotopy-based moving horizon estimation. <i>International Journal of Control</i> , 2019 , 92, 1672-1681	1.5	
234	Distributed control architecture for real-time model predictive control for system-level harmonic mitigation in power systems. <i>ISA Transactions</i> , 2019 , 93, 231-243	5.5	3
233	Long-Endurance Green Energy Autonomous Surface Vehicle Control Architecture 2019 ,		4
232	State observer design for quadratic parameter varying (QPV) systems 2019 ,		1
231	GNSS-antenna lever arm compensation in aided inertial navigation of UAVs 2019 ,		2
230	A Survey of Practical Design Considerations of Optical Imaging Stabilization Systems for Small Unmanned Aerial Systems. <i>Sensors</i> , 2019 , 19,	3.8	5
229	Robust fault and icing diagnosis in unmanned aerial vehicles using LPV interval observers. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 5456-5480	3.6	11
228	Advancing multi-vehicle deployments in oceanographic field experiments. <i>Autonomous Robots</i> , 2019 , 43, 1555-1574	3	10
227	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	4.8	5
226	Extremum-Seeking Control for Harmonic Mitigation in Electrical Grids of Marine Vessels. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 500-508	8.9	3
225	Survey on Communication and Networks for Autonomous Marine Systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 95, 789-813	2.9	30
224	Analysis and design of quadratic parameter varying (QPV) control systems with polytopic attractive region. <i>Journal of the Franklin Institute</i> , 2018 , 355, 3488-3507	4	9
223	Globally exponentially stable filters for underwater position estimation using an array of hydroacoustic transducers on the vehicle and a single transponder. <i>Ocean Engineering</i> , 2018 , 155, 351-360	3.9	2
222	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	12
221	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	6.7	11

220	Combinatorial Approach Toward Multiparametric Quadratic Programming Based on Characterizing Adjacent Critical Regions. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3221-3231	5.9	13
219	A virtual vertical reference concept for aided inertial navigation at the sea surface. <i>Control Engineering Practice</i> , 2018 , 70, 1-14	3.9	9
218	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	2.9	8
217	Diagnosis of Icing and Actuator Faults in UAVs Using LPV Unknown Input Observers. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 91, 651-665	2.9	12
216	Fault-Tolerant Control Allocation for Overactuated Nonlinear Systems. <i>Asian Journal of Control</i> , 2018 , 20, 621-634	1.7	5
215	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	4.8	13
214	Attitude estimation by multiplicative exogenous Kalman filter. <i>Automatica</i> , 2018 , 95, 347-355	5.7	22
213	Do it yourself hyperspectral imager for handheld to airborne operations. <i>Optics Express</i> , 2018 , 26, 6021-6035	5.9	41
212	User-Configurable Timing and Navigation for UAVs. <i>Sensors</i> , 2018 , 18,	3.8	10
211	Skyline based camera attitude estimation using a digital surface model 2018 ,		2
210	Fault tolerant control of uncertain dynamical systems using interval virtual actuators. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 611-624	3.6	10
209	Detectability of Objects at the Sea Surface in Visible Light and Thermal Camera Images 2018 ,		3
208	Towards autonomous ocean observing systems using Miniature Underwater Gliders with UAV deployment and recovery capabilities 2018 ,		4
207	Distributed Quasi-Nonlinear Model Predictive Control with Contractive Constraint. <i>IFAC-PapersOnLine</i> , 2018 , 51, 41-47	0.7	1
206	Adaptive Sampling of Ocean Processes Using an AUV with a Gaussian Proxy Model. <i>IFAC-PapersOnLine</i> , 2018 , 51, 238-243	0.7	5
205	Exogenous Kalman Filter for State-of-Charge Estimation in Lithium-Ion Batteries 2018 ,		5
204	Cooperative Rendezvous and Docking for Underwater Robots using Model Predictive Control and Dual Decomposition 2018 ,		2
203	Robust and Secure UAV Navigation Using GNSS, Phased-Array Radio System and Inertial Sensor Fusion 2018 ,		1

202	An Efficient Real-Time FPGA Implementation of the CCSDS-123 Compression Standard for Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 3841-3852	4.7	27
201	2018,		12
200	Inclusion of Horizontal Wind Maps in Path Planning Optimization of UAS 2018,		3
199	Model-Based Actuator Fault Diagnosis in Multirotor UAVs* 2018,		15
198	On the accuracy of gradient estimation in extremum-seeking control using small perturbations. <i>Automatica</i> , 2018 , 95, 23-32	5.7	3
197	Phased array radio system aided inertial navigation for unmanned aerial vehicles 2018,		3
196	Toward Dependable Embedded Model Predictive Control. <i>IEEE Systems Journal</i> , 2017 , 11, 1208-1219	4.3	38
195	The eXogenous Kalman Filter (XKF). <i>International Journal of Control</i> , 2017 , 90, 161-167	1.5	26
194	Design of inertial navigation systems for marine craft with adaptive wave filtering aided by triple-redundant sensor packages. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 522-544	2.8	8
193	Model predictive control for a multi-body slung-load system. <i>Robotics and Autonomous Systems</i> , 2017 , 92, 1-11	3.5	31
192	Nonlinear Observer for Tightly Integrated Inertial Navigation Aided by Pseudo-Range Measurements. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	13
191	Nonlinear Control with Swing Damping of a Multirotor UAV with Suspended Load. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 88, 379-394	2.9	35
190	Spatially indexed clustering for scalable tracking of remotely sensed drift ice 2017,		3
189	Nonlinear Camera- and GNSS-Aided INS for Fixed-Wing UAV Using the eXogenous Kalman Filter. <i>Lecture Notes in Control and Information Sciences</i> , 2017 , 25-50	0.5	1
188	Nonlinear Observers for Integrated INS/GNSS Navigation: Implementation Aspects. <i>IEEE Control Systems</i> , 2017 , 37, 59-86	2.9	28
187	Nonlinear observer design for GNSS-aided inertial navigation systems with time-delayed GNSS measurements. <i>Control Engineering Practice</i> , 2017 , 60, 39-50	3.9	16
186	Inertial Sensors for Risk-Based Redundancy in Dynamic Positioning 2017,		2
185	Flight test results for autonomous icing protection solution for small unmanned aircraft 2017,		3

184	Autonomous UAV surveillance of a ship's path with MPC for maritime situational awareness 2017 ,		4
183	Mission performance trade-offs of battery-powered sUAS 2017 ,		4
182	SyncBoard - A high accuracy sensor timing board for UAV payloads 2017 ,		10
181	A UAV ice tracking framework for autonomous sea ice management 2017 ,		8
180	Estimation of wind velocities and aerodynamic coefficients for UAVs using standard autopilot sensors and a Moving Horizon Estimator 2017 ,		10
179	Icing detection and identification for unmanned aerial vehicles using adaptive nested multiple models. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 1584-1607	2.8	7
178	Coordinated maritime missions of unmanned vehicles [Network architecture and performance analysis 2017 ,		5
177	Asymptotic Stability of Perturbation-Based Extremum-Seeking Control for Nonlinear Plants. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2302-2317	5.9	16
176	Battery Power Smoothing Control in a Marine Electric Power Plant Using Nonlinear Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1449-1456	4.8	34
175	Unmanned Aerial Vehicles as Data Mules: An Experimental Assessment. <i>IEEE Access</i> , 2017 , 5, 24716-24726	3.5	14
174	Approach Methods for Autonomous Precision Aerial Drop from a Small Unmanned Aerial Vehicle. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3566-3573	0.7	7
173	2017 ,		2
172	2017 ,		2
171	Redesign and analysis of globally asymptotically stable bearing only SLAM 2017 ,		8
170	Feasibility study of a circularly towed cable-body system for UAV applications 2016 ,		3
169	Detection of icing and actuators faults in the longitudinal dynamics of small UAVs using an LPV proportional integral unknown input observer 2016 ,		5
168	Unmanned aerial surveillance system for hazard collision avoidance in autonomous shipping 2016 ,		16
167	Combining model-free and model-based angle of attack estimation for small fixed-wing UAVs using a standard sensor suite 2016 ,		20

166	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016 , 52, 1631-1643	3.7	12
165	Attitude and Heave Estimation for Ships using MEMS-based Inertial Measurements. <i>IFAC-PapersOnLine</i> , 2016 , 49, 568-575	0.7	7
164	MEMS-based Inertial Navigation on Dynamically Positioned Ships: Dead Reckoning. <i>IFAC-PapersOnLine</i> , 2016 , 49, 139-146	0.7	8
163	Fault detection in lever-arm-compensated position reference systems based on nonlinear attitude observers and inertial measurements in dynamic positioning 2016 ,		4
162	Further results on the exploration of combinatorial tree in multi-parametric quadratic programming 2016 ,		5
161	A communication bridge between underwater sensors and unmanned vehicles using a surface wireless sensor network - design and validation 2016 ,		12
160	Nonlinear Observer for Tightly Coupled Integration of Pseudorange and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 2199-2206	4.8	11
159	System-Wide Harmonic Mitigation in a Diesel-Electric Ship by Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4008-4019	8.9	19
158	Integrated Monitoring of Mola mola Behaviour in Space and Time. <i>PLoS ONE</i> , 2016 , 11, e0160404	3.7	17
157	Nonlinear filtering with exogenous Kalman filter and double Kalman filter 2016 ,		11
156	On degeneracy in exploration of combinatorial tree in multi-parametric quadratic programming 2016 ,		2
155	Enhanced Hydroacoustic Range Robustness of Three-Stage Position Filter based on Long Baseline Measurements with Unknown Wave Speed. <i>IFAC-PapersOnLine</i> , 2016 , 49, 61-67	0.7	6
154	A Nonlinear Model-Based Wind Velocity Observer for Unmanned Aerial Vehicles. <i>IFAC-PapersOnLine</i> , 2016 , 49, 276-283	0.7	10
153	An unknown input observer based control allocation scheme for icing diagnosis and accommodation in overactuated UAVs 2016 ,		3
152	Dynamic Positioning With Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1340-1353	4.8	74
151	Efficient implementation of step response models for embedded Model Predictive Control. <i>Computers and Chemical Engineering</i> , 2016 , 90, 121-135	4	2
150	Ship Collision Avoidance and COLREGS Compliance Using Simulation-Based Control Behavior Selection With Predictive Hazard Assessment. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 3407-3422	6.1	115
149	Distributed Nonlinear Model Predictive Control by Sequential Linearization and Accelerated Gradient Method. <i>IFAC-PapersOnLine</i> , 2016 , 49, 597-602	0.7	1

148	Tightly coupled integrated inertial and real-time-kinematic positioning approach using nonlinear observer 2016,		5
147	A globally exponentially stable non-linear velocity observer for vision-aided UAV dead reckoning 2016,		4
146	Coordinated control concept for recovery of a fixed-wing UAV on a ship using a net carried by multirotor UAVs 2016,		8
145	2015,		56
144	Optimization of Wireless Sensor Network and UAV Data Acquisition. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 78, 159-179	2.9	77
143	Integrated Multilinear Model Predictive Control of Nonlinear Systems Based on Gap Metric. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6002-6011	3.9	21
142	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,		9
141	Management of harmonic propagation in a marine vessel by use of optimization 2015,		4
140	Net recovery of UAV with single-frequency RTK GPS 2015,		6
139	Optimized current reference generation for system-level harmonic mitigation in a diesel-electric ship using non-linear model predictive control 2015,		6
138	Nonlinear control of a multirotor UAV with suspended load 2015,		23
137	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
136	Icing detection and identification for unmanned aerial vehicles: Multiple model adaptive estimation 2015,		17
135	Estimation of Flow Rate and Viscosity in a Well with an Electric Submersible Pump using Moving Horizon Estimation**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). <i>IFAC PapersOnLine</i> ,	0.7	10
134	Globally exponentially stable attitude and gyro bias estimation with application to GNSS/INS integration. <i>Automatica</i> , 2015 , 51, 158-166	5.7	68
133	A Virtual Vertical Reference Concept for GNSS/INS Applications at the Sea Surface. <i>IFAC-PapersOnLine</i> , 2015 , 48, 127-133	0.7	8
132	Online Estimation of Ship's Mass and Center of Mass Using Inertial Measurements. <i>IFAC-PapersOnLine</i> , 2015 , 48, 134-139	0.7	4
131	Modeling for IMU-based Online Estimation of a Ship's Mass and Center of Mass. <i>IFAC-PapersOnLine</i> , 2015 , 48, 198-203	0.7	2

130	Fault diagnosis and fault-tolerant control allocation for a class of nonlinear systems with redundant inputs 2015 ,		4
129	. <i>IEEE Access</i> , 2015 , 3, 2065-2079	3.5	37
128	Unmanned aerial system architecture for maritime missions. design & hardware description 2015 ,		15
127	Moving Horizon Estimation for Integrated Navigation Filtering. <i>IFAC-PapersOnLine</i> , 2015 , 48, 519-526	0.7	6
126	UAVs Trajectory Planning by Distributed MPC under Radio Communication Path Loss Constraints. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 79, 115-134	2.9	34
125	Nonlinear observer for inertial navigation aided by pseudo-range and range-rate measurements 2015 ,		10
124	Icing detection in unmanned aerial vehicles with longitudinal motion using an LPV unknown input observer 2015 ,		11
123	Cooperative path-following for multirotor UAVs with a suspended payload 2015 ,		13
122	An unknown input observer approach to icing detection for unmanned aerial vehicles with linearized longitudinal motion 2015 ,		9
121	On attitude observers and inertial navigation for reference system fault detection and isolation in dynamic positioning 2015 ,		4
120	Nonlinear observer for INS aided by time-delayed GNSS measurements: Implementation and UAV experiments 2015 ,		6
119	A lighth-weight thermal camera payload with georeferencing capabilities for small fixed-wing UAVs 2015 ,		12
118	On estimation of wind velocity, angle-of-attack and sideslip angle of small UAVs using standard sensors 2015 ,		51
117	Autonomous visual navigation of Unmanned Aerial Vehicle for wind turbine inspection 2015 ,		21
116	Non-linear model predictive control for guidance of a fixed-wing UAV in precision deep stall landing 2015 ,		10
115	Experiences with coastal and maritime UAS BLOS operation with phased-array antenna digital payload data link 2014 ,		12
114	Dynamic Positioning System as Dynamic Energy Storage on Diesel-Electric Ships. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 3086-3091	7	30
113	Integrated Multimodel Control of Nonlinear Systems Based on Gap Metric and Stability Margin. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10206-10215	3.9	30

112	Design and comparison of adaptive estimators for Under-balanced Drilling 2014 ,		5
111	Linear constrained moving horizon estimator with pre-estimating observer. <i>Systems and Control Letters</i> , 2014 , 67, 40-45	2.4	20
110	Fault tolerant control allocation using unknown input observers. <i>Automatica</i> , 2014 , 50, 1891-1897	5.7	111
109	A uniformly semiglobally exponentially stable nonlinear observer for GNSS- and camera-aided inertial navigation 2014 ,		9
108	Unmanned aerial vehicle as communication relay for autonomous underwater vehicle [Field tests 2014 ,		27
107	Fault-tolerant control allocation with actuator dynamics: Finite-time control reconfiguration 2014 ,		6
106	Suspended load motion control using multicopters 2014 ,		9
105	Nonlinear Moving Horizon Observer for Estimation of States and Parameters in Under-Balanced Drilling Operations 2014 ,		5
104	Observer and IMU-based detection and isolation of faults in position reference systems and gyrocompasses with dual redundancy in dynamic positioning 2014 ,		9
103	Coordinating UAVs and AUVs for oceanographic field experiments: Challenges and lessons learned 2014 ,		24
102	Nonlinear observer with time-varying gains for inertial navigation aided by satellite reference systems in dynamic positioning 2014 ,		14
101	Constrained MPC design for heave disturbance attenuation in offshore drilling systems 2013 ,		6
100	Multi-Resolution Explicit Model Predictive Control: Delta-Model Formulation and Approximation. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2979-2984	5.9	10
99	Cluster-based communication topology selection and UAV path planning in wireless sensor networks 2013 ,		17
98	Nonlinear observer for GNSS-aided inertial navigation with quaternion-based attitude estimation 2013 ,		36
97	Regularized Nonlinear Moving-Horizon Observer With Robustness to Delayed and Lost Data. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2114-2128	4.8	9
96	Performance evaluation of cooperative relay and Particle Swarm Optimization path planning for UAV and wireless sensor network 2013 ,		18
95	Control allocationA survey. <i>Automatica</i> , 2013 , 49, 1087-1103	5.7	560

94	An improved algorithm for combinatorial multi-parametric quadratic programming. <i>Automatica</i> , 2013 , 49, 1370-1376	5.7	31
93	Adaptive Model Estimation of Vibration Motion for a Nanopositioner With Moving Horizon Optimized Extended Kalman Filter. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	6
92	Fault-tolerant control allocation: An Unknown Input Observer based approach with constrained output fault directions 2013 ,		5
91	Automatic model bank selection in multiple model identification of gas turbine dynamics. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2013 , 227, 482-494	1	2
90	Scenario-based fault-tolerant model predictive control for diesel-electric marine power plant 2013 ,		2
89	Rotary-Wing UAVs Trajectory Planning by Distributed Linear MPC with Reconfigurable Communication Network Topologies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 198-205		5
88	Path Planning for UAVs Under Communication Constraints Using SPLAT! and MILP. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 65, 265-282	2.9	65
87	Observer design for linear processes model with implicit nonlinear output map. <i>Journal of Process Control</i> , 2012 , 22, 1647-1654	3.9	2
86	Moving Horizon Observer for vibration dynamics with plant uncertainties in nanopositioning system estimation 2012 ,		1
85	Path- and data transmission planning for cooperating UAVs in delay tolerant network 2012 ,		12
84	Observers for interconnected nonlinear and linear systems. <i>Automatica</i> , 2012 , 48, 1339-1346	5.7	35
83	Flexible Piecewise Function Evaluation Methods Based on Truncated Binary Search Trees and Lattice Representation in Explicit MPC. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 632-640	4.8	41
82	Approximate Explicit Nonlinear Receding Horizon Control for Decompression of Divers. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1275-1284	4.8	1
81	Explicit NMPC Based on Neural Network Models. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 187-207	0.5	1
80	Explicit Stochastic NMPC. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 157-186	0.5	
79	Explicit Nonlinear Model Predictive Control. <i>Lecture Notes in Control and Information Sciences</i> , 2012 ,	0.5	53
78	Explicit Min-Max MPC of Constrained Nonlinear Systems with Bounded Uncertainties. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 127-156	0.5	1
77	Explicit NMPC via Approximate mp-NLP. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 87-110	0.5	

76	Explicit NMPC Using mp-QP Approximations of mp-NLP. <i>Lecture Notes in Control and Information Sciences, 2012, 71-85</i>	0.5	
75	Nonlinear Model Predictive Control. <i>Lecture Notes in Control and Information Sciences, 2012, 39-69</i>	0.5	5
74	Multi-parametric Programming. <i>Lecture Notes in Control and Information Sciences, 2012, 1-37</i>	0.5	5
73	On the Exponential Stability of Moving Horizon Observer for Globally N-Detectable Nonlinear Systems. <i>Asian Journal of Control, 2012, 14, 1649-1654</i>	1.7	2
72	Task assignment for cooperating UAVs under radio propagation path loss constraints 2012,		10
71	Thrust allocation with power management functionality on dynamically positioned vessels 2012,		11
70	Combinatorial multi-parametric quadratic programming with saturation matrix based pruning 2012,		2
69	Distributed Path Planning for a UAV Communication Chain by Dual Decomposition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 43-48</i>		4
68	Distributed MPC-Based Path Planning for UAVs under Radio Communication Path Loss Constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 254-259</i>		6
67	Transient power control in dynamic positioning - governor feedforward and dynamic thrust allocation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 158-163</i>		7
66	Optimal Decompression of Divers [Applications of Control]. <i>IEEE Control Systems, 2011, 31, 19-28</i>	2.9	4
65	Regularized and Adaptive Nonlinear Moving Horizon Estimation of Bottomhole Pressure during Oil Well Drilling. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10511-10516</i>		15
64	Estimation of states and parameters for linear systems with nonlinearly parameterized perturbations. <i>Systems and Control Letters, 2011, 60, 771-777</i>	2.4	17
63	Design and Comparison of Explicit Model Predictive Controllers for an Electropneumatic Clutch Actuator Using On/Off Valves. <i>IEEE/ASME Transactions on Mechatronics, 2011, 16, 665-673</i>	5.5	31
62	Explicit output-feedback nonlinear predictive control based on black-box models. <i>Engineering Applications of Artificial Intelligence, 2011, 24, 388-397</i>	7.2	19
61	Flexible piecewise function evaluation methods with application to explicit model predictive control 2011,		4
60	Using hash tables to manage the time-storage complexity in a point location problem: Application to explicit model predictive control. <i>Automatica, 2011, 47, 571-577</i>	5.7	63
59	Moving horizon observer with regularisation for detectable systems without persistence of excitation. <i>International Journal of Control, 2011, 84, 1041-1054</i>	1.5	14

58	2011,		5
57	A computational approach to explicit feedback stochastic Nonlinear Model Predictive Control 2010,		5
56	Managing time-storage complexity in point location problem: Application to explicit model predictive control 2010,		1
55	Stabilization of Automotive Vehicles Using Active Steering and Adaptive Brake Control Allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 545-558	4.8	153
54	Dual-Mode Switched Control of an Electropneumatic Clutch Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010,	5.5	20
53	Linear Moving Horizon Estimation With Pre-Estimating Observer. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2363-2368	5.9	32
52	Moving horizon estimation for tire-road friction during braking 2010,		7
51	Optimal Decompression Through Multi-parametric Nonlinear Programming *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 1314-1319		2
50	Dual-mode Explicit Output-feedback Predictive Control Based on Neural Network Models *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 545-550		2
49	Nonlinear hierarchical control allocation for vehicle yaw stabilization and rollover prevention 2009,		5
48	Explicit Model Predictive Control of an electropneumatic clutch actuator using on/off valves and pulse-width modulation 2009,		7
47	Barrier function nonlinear optimization for optimal Decompression of divers 2009,		5
46	A Four-Quadrant Thrust Estimation Scheme for Marine Propellers: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 215-226	4.8	36
45	State and parameter estimation for linear systems with nonlinearly parameterized perturbations 2009,		5
44	Computation, approximation and stability of explicit feedback minmax nonlinear model predictive control. <i>Automatica</i> , 2009 , 45, 1134-1143	5.7	37
43	2009,		6
42	Estimation of road inclination and bank angle in automotive vehicles 2009,		12
41	Approaches to explicit Nonlinear Model Predictive Control with reduced partition complexity 2009,		6

40	A Four-Quadrant Thrust Controller for Marine Propellers with Loss Estimation and Anti-Spin: Theory and Experiments 2009 , 46, 229-242		3
39	Lyapunov-Based Integrator Resetting With Application to Marine Thruster Control. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 908-917	4.8	30
38	Modeling of Air-Fuel Ratio Dynamics of Gasoline Combustion Engine With ARX Network. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	5
37	Optimal constrained control allocation in marine surface vessels with rudders. <i>Control Engineering Practice</i> , 2008 , 16, 457-464	3.9	71
36	Adaptive control allocation. <i>Automatica</i> , 2008 , 44, 2754-2765	5.7	106
35	Explicit stochastic predictive control of combustion plants based on Gaussian process models. <i>Automatica</i> , 2008 , 44, 1621-1631	5.7	55
34	Reducing Power Load Fluctuations on Ships Using Power Redistribution Control 2008 , 45, 162-174		9
33	Optimizing adaptive control allocation with actuator dynamics 2007 ,		13
32	Explicit stochastic Nonlinear Predictive Control based on Gaussian process models 2007 ,		13
31	Neural network augmented identification of underwater vehicle models. <i>Control Engineering Practice</i> , 2007 , 15, 715-725	3.9	50
30	Computational Aspects of Approximate Explicit Nonlinear Model Predictive Control 2007 , 181-192		26
29	Hardware Synthesis of Explicit Model Predictive Controllers. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 191-197	4.8	67
28	Explicit Approximate Approach to Feedback Min-Max Model Predictive Control of Constrained Nonlinear Systems 2006 ,		6
27	Cascade lemma for set-stable systems 2006 ,		2
26	Improved Transient Performance by Lyapunov-based Integrator Reset of PI Thruster Control in Extreme Seas 2006 ,		7
25	A Survey of Control Allocation Methods for Ships and Underwater Vehicles 2006 ,		90
24	On the facet-to-facet property of solutions to convex parametric quadratic programs. <i>Automatica</i> , 2006 , 42, 2209-2214	5.7	61
23	A METHOD FOR OBTAINING CONTINUOUS SOLUTIONS TO MULTIPARAMETRIC LINEAR PROGRAMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 253-258		14

22	EXPLICIT MIN-MAX MODEL PREDICTIVE CONTROL OF CONSTRAINED NONLINEAR SYSTEMS WITH MODEL UNCERTAINTY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 1019-1024		3
21	Survey of Explicit Approaches to Constrained Optimal Control. <i>Lecture Notes in Computer Science</i> , 2005 , 47-97	0.9	3
20	Efficient Optimal Constrained Control Allocation via Multiparametric Programming. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 506-515	2.1	70
19	Approximate explicit receding horizon control of constrained nonlinear systems. <i>Automatica</i> , 2004 , 40, 293-300	5.7	176
18	Explicit model predictive control of gas-liquid separation plant via orthogonal search tree partitioning. <i>Computers and Chemical Engineering</i> , 2004 , 28, 2481-2491	4	17
17	Neural network augmented identification of underwater vehicle models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 263-268		2
16	Identification of underwater vehicle hydrodynamic coefficients using free decay tests. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 363-368		14
15	Optimal constrained control allocation in marine surface vessels with rudders. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 181-186		5
14	Reduced Dimension Approach to Approximate Explicit Model Predictive Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 531-536		1
13	Wheel slip control using gain-scheduled LQ \mathcal{L} PV/LMI analysis and experimental results 2003 ,		7
12	Lateral vehicle stabilization using constrained nonlinear control 2003 ,		3
11	An algorithm for multi-parametric quadratic programming and explicit MPC solutions. <i>Automatica</i> , 2003 , 39, 489-497	5.7	384
10	Explicit sub-optimal linear quadratic regulation with state and input constraints. <i>Automatica</i> , 2002 , 38, 1099-1111	5.7	64
9	Energy-based control of a distributed solar collector field. <i>Automatica</i> , 2002 , 38, 1191-1199	5.7	55
8	COMPLEXITY REDUCTION IN EXPLICIT LINEAR MODEL PREDICTIVE CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 189-194		31
7	Linear MPC with optimal prioritized infeasibility handling: application, computational issues and stability. <i>Automatica</i> , 2001 , 37, 1835-1843	5.7	30
6	Multi-Objective Identification of FIR Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000 , 33, 917-922		3
5	Computation of Lyapunov functions for smooth nonlinear systems using convex optimization. <i>Automatica</i> , 2000 , 36, 1617-1626	5.7	73

4	Gain-scheduled control of a solar power plant. <i>Control Engineering Practice</i> , 2000 , 8, 1011-1022	3.9	39
3	Characterization of Lyapunov functions for smooth nonlinear systems using LMIS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999 , 32, 2512-2517		
2	On Tikhonov regularization, bias and variance in nonlinear system identification. <i>Automatica</i> , 1997 , 33, 441-446	5.7	84
1	Identification of non-linear systems using empirical data and prior knowledge—An optimization approach. <i>Automatica</i> , 1996 , 32, 337-356	5.7	72