Henk A P Blom

List of Publications by Year
in descending order

30 papers	2,922 citations	567281 15 h-index	752698 20 g-index
31 all docs	31 docs citations	31 times ranked	1457 citing authors

#	Article	IF	Citations
1	The interacting multiple model algorithm for systems with Markovian switching coefficients. IEEE Transactions on Automatic Control, 1988, 33, 780-783.	5.7	1,897
2	Tracking a maneuvering target using input estimation versus the interacting multiple model algorithm. IEEE Transactions on Aerospace and Electronic Systems, 1989, 25, 296-300.	4.7	262
3	Probabilistic data association avoiding track coalescence. IEEE Transactions on Automatic Control, 2000, 45, 247-259.	5.7	100
4	Exact Bayesian and particle filtering of stochastic hybrid systems. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 55-70.	4.7	100
5	Applying complexity science to air traffic management. Journal of Air Transport Management, 2015, 42, 149-158.	4.5	87
6	Systemic accident risk assessment in air traffic by Monte Carlo simulation. Safety Science, 2009, 47, 238-249.	4.9	85
7	IMM estimator versus optimal estimator for hybrid systems. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 986-991.	4.7	73
8	Contrasting safety assessments of a runway incursion scenario: Event sequence analysis versus multi-agent dynamic risk modelling. Reliability Engineering and System Safety, 2013, 109, 133-149.	8.9	52
9	Mathematical Models for Air Traffic Conflict and Collision Probability Estimation. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1052-1068.	8.0	34
10	Safety Evaluation of Advanced Self-Separation Under Very High En Route Traffic Demand. Journal of Aerospace Information Systems, 2015, 12, 413-427.	1.4	32
11	Bayesian tracking of two possibly unresolved maneuvering targets. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 612-627.	4.7	24
12	JIPDA: Automatic target tracking avoiding track coalescence. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 962-974.	4.7	21
13	Agent-Based Modeling and Simulation of Coordination by Airline Operations Control. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 9-20.	4.6	20
14	Modelling Lateral Spacing and Separation for Airborne Separation Assurance Using Petri Nets. Simulation, 2007, 83, 401-414.	1.8	19
15	Free Flight Collision Risk Estimation by Sequential MC Simulation. Automation and Control Engineering, 2006, , 249-281.	0.1	19
16	The continuous-discrete time feedback particle filter. , 2014, , .		16
17	Evaluation of a Multi-Agent System approach to airline disruption management. Journal of Air Transport Management, 2018, 71, 108-118.	4.5	14
18	Multibody system modelling of unmanned aircraft system collisions with the human head. International Journal of Crashworthiness, 2020, 25, 689-707.	1.9	10

#	Article	IF	Citations
19	Joint Integrated PDA Avoiding Track Coalescence under Non-Homogeneous Clutter Density. , 2006, , .		7
20	Safety Risk Simulation of an Airborne Self Separation Concept of Operation. , 2007, , .		6
21	Modelling situation awareness relations in a multiagent system. Applied Intelligence, 2015, 43, 412-423.	5.3	6
22	Can airborne self separation safely accommodate very high en-route traffic demand?. , 2012, , .		6
23	Implementation of the hyaluronic acid fat graft myringoplasty technique, pitfalls and lessons learned. Acta Oto-Laryngologica, 2017, 137, 1035-1038.	0.9	5
24	Interacting Particle System-based Estimation of Reach Probability for a Generalized Stochastic Hybrid System. IFAC-PapersOnLine, 2018, 51, 79-84.	0.9	4
25	Characterizing UAS Collision Consequences in Future UTM. , 2018, , .		4
26	Interacting multiple model-feedback particle filter for stochastic hybrid systems. , 2013, , .		3
27	Approximate Bayesian tracking of two targets that maneuver in and out formation flight. , 2006, , .		2
28	Using i* Modelling as a Bridge between Air Traffic Management Operational Concepts and Agent-based Simulation Analysis. , 2010, , .		2
29	Symbolic-numeric methods in reasoning about the design of future air traffic management. , 2019, , .		0
30	Random Assignment Versus Fixed Assignment in Multilevel Importance Splitting for Estimating Stochastic Reach Probabilities. Methodology and Computing in Applied Probability, 0, , 1.	1.2	0