## Generalized Model Predictive Static Programming and Air-to-Ground Missiles

Journal of Guidance, Control, and Dynamics 37, 1897-1913 DOI: 10.2514/1.g000038

**Citation Report** 

#	Article	IF	CITATIONS
1	Fuel-optimal G-MPSP guidance for powered descent phase of soft lunar landing. , 2015, , .		9
2	A High-level model predictive control guidance law for unmanned aerial vehicles. , 2015, , .		1
3	Nonlinear Differential Games-Based Impact-Angle-Constrained Guidance Law. Journal of Guidance, Control, and Dynamics, 2015, 38, 384-402.	1.6	56
4	Continuous second-order sliding mode based impact angle guidance law. Aerospace Science and Technology, 2015, 41, 199-208.	2.5	106
5	Distributed cooperative guidance of multiple anti-ship missiles with arbitrary impact angle constraint. Aerospace Science and Technology, 2015, 46, 299-311.	2.5	85
6	Switched-Gain Guidance for Impact Angle Control Under Physical Constraints. Journal of Guidance, Control, and Dynamics, 2015, 38, 205-216.	1.6	124
7	A New Impact Time and Angle Control Guidance Law for Stationary and Nonmaneuvering Targets. International Journal of Aerospace Engineering, 2016, 2016, 1-14.	0.5	12
8	Time-Varying Biased Proportional Guidance with Seeker's Field-of-View Limit. International Journal of Aerospace Engineering, 2016, 2016, 1-11.	0.5	17
9	Three-Dimensional Impact Angle Guidance Laws Based on Model Predictive Control and Sliding Mode Disturbance Observer. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	21
10	A near-optimal analytical guidance scheme for approach phase of autonomous lunar landing. , 2016, , .		3
11	Validation of Lunar Landing GMPSP Guidance from PIL Studiesâ^—â^—This work was carried out in DST-FIST supported Advanced Flight Simulation Lab in Indian Institute of Science, Bangalore IFAC-PapersOnLine, 2016, 49, 694-699.	0.5	0
12	Sliding mode control based impact angle control guidance considering the seeker׳s field-of-view constraint. ISA Transactions, 2016, 61, 49-59.	3.1	55
13	Terminal-Lead-Angle-Constrained Generalized Explicit Guidance. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1250-1260.	2.6	6
14	Penetration Trajectory Programming for Air-Breathing Hypersonic Vehicles in Cruise Duration with Control Constraints and Flight Dynamics Uncertainties. , 2017, , .		2
15	Fast real-time three-dimensional wind estimation for fixed-wing aircraft. Aerospace Science and Technology, 2017, 69, 674-685.	2.5	14
16	Impact Angle Constrained Integrated Guidance and Control for Maneuvering Target Interception. Journal of Guidance, Control, and Dynamics, 2017, 40, 2653-2661.	1.6	63
17	Terminal Guidance Law for UAV Based on Receding Horizon Control Strategy. Complexity, 2017, 2017, 1-19.	0.9	5
18	Designing a closed-loop guidance system to increase the accuracy of satellite-carrier boosters' landing point. Aerospace Science and Technology, 2018, 76, 242-249.	2.5	8

ιτλτιώνι Ρερώ

#	Article	IF	CITATIONS
19	Near optimal finite-time terminal controllers for space trajectories via SDRE-based approach using dynamic programming. Aerospace Science and Technology, 2018, 75, 128-138.	2.5	9
20	Wind Estimation for Fixed-Wing Aircraft Using Command Tracking Approach. , 2018, , .		1
21	Differentiator-Based Output-Feedback SlidingMode Control for Angle Constrained Midcourse Guidance. , 2018, , .		0
22	Impact-angle-constrained reentry guidance law guaranteeing convergence before attainment of desired line-of-sight range. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2783-2791.	0.7	0
23	Second-Order Sliding Mode Guidance Law considering Second-Order Dynamics of Autopilot. Journal of Control Science and Engineering, 2019, 2019, 1-11.	0.8	1
24	Nonlinear reentry guidance law guaranteeing convergence before attainment of desired line-of-sight range. Aerospace Science and Technology, 2019, 92, 579-587.	2.5	1
25	Adaptive trajectory generation based on real-time estimated parameters for impaired aircraft landing. International Journal of Systems Science, 2019, 50, 2733-2751.	3.7	9
26	Fixed Final Time Field of View and Impact Angle Constrained Guidance. , 2019, , .		0
27	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"> <mml:mrow><mml:mi>S</mml:mi>O<mml:mi><mml:mrow><mml:mo stretchy="true"&gt;(<mml:mrow><mml:mn>3</mml:mn></mml:mrow><mml:mo) 0="" c<="" etqq0="" rgbt="" td="" tj=""><td>)vertock 1(</td><td>0 T<sup>12</sup>50 412 To</td></mml:mo)></mml:mo </mml:mrow></mml:mi></mml:mrow>	)vertock 1(	0 T <sup>12</sup> 50 412 To
28	471-479. Terminal Guidance Based on Bézier Curve for Climb-and-Dive Maneuvering Trajectory With Impact Angle Constraint. IEEE Access, 2019, 7, 2969-2977.	2.6	5
29	Cooperative Guidance of Seeker-Less Missiles for Precise Hit. International Journal of Aerospace Engineering, 2019, 2019, 1-8.	0.5	3
30	Suboptimal Midcourse Guidance with Terminal-Angle Constraint for Hypersonic Target Interception. International Journal of Aerospace Engineering, 2019, 2019, 1-13.	0.5	6
31	Cooperative guidance of seeker-less missile with two leaders. Aerospace Science and Technology, 2019, 88, 308-315.	2.5	15
32	Three-Dimensional Impact Time and Angle Control Guidance Based on MPSP. International Journal of Aerospace Engineering, 2019, 2019, 1-16.	0.5	13
33	Waypoint Constrained Multi-Phase Optimal Guidance of Spacecraft for Soft Lunar Landing. Unmanned Systems, 2019, 07, 83-104.	2.7	14
34	Smooth Interpolation-Based Fixed-Final-Time Command Generation. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3039-3049.	2.6	2
35	Aerobatic Aircraft Guidance Design for Air-Race Scenario. , 2019, , .		0
36	Three-Dimensional Intercept Angle Guidance for Active Aircraft Protection. , 2019, , .		2

ARTICLE IF CITATIONS # Model Predictive Convex Programming for Constrained Vehicle Guidance. IEEE Transactions on 37 2.6 31 Aerospace and Electronic Systems, 2019, 55, 2487-2500. Suboptimal trajectory programming for unmanned aerial vehicles with dynamic obstacle avoidance. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 3857-3869. Finite-Time Convergent Three-Dimensional Nonlinear Intercept Angle Guidance. Journal of Guidance, 39 1.6 35 Control, and Dynamics, 2020, 43, 146-153. Generalized quasi-spectral model predictive static programming method using Gaussian quadrature collocation. Aerospace Science and Technology, 2020, 106, 106134. Three-Dimensional Finite-time Suboptimal Nonlinear Impact Angle Guidance. IFAC-PapersOnLine, 2020, 41 0.5 0 53, 252-257. Nonlinear Suboptimal Guidance Law With Impact Angle Constraint: An SDRE-Based Approach. IEEE 2.6 Transactions on Aerospace and Electronic Systems, 2020, 56, 4831-4840. Smooth Sub-Optimal Trajectory Generation for Transition Maneuvers. IEEE Access, 2020, 8, 61035-61042. 43 2.6 2 Robust Bang-Off-Bang Low-Thrust Guidance Using Model Predictive Static Programming. Acta Astronautica, 2020, 176, 357-370. 44 1.7 Novel second-order sliding mode guidance law with an impact angle constraint that considers 45 1.1 6 autopilot lag for intercepting manoeuvering targets. Aeronautical Journal, 2020, 124, 1350-1370. Generalized Polynomial Guidance for Terminal Velocity Control of Tactical Ballistic Missiles. 1.0 International Journal of Aeronautical and Space Sciences, 2021, 22, 163-175. Free Final-Time Constrained Sequential Quadratic Programming–Based Flight Vehicle Guidance. 47 12 1.6 Journal of Guidance, Control, and Dynamics, 2021, 44, 181-189. Gradient Method for Solving Multisystem Integrated Optimal Control Problem With Undetermined Terminal Time. IEEE Systems Journal, 2021, 15, 1917-1928. Lead-Angle-Based Three-Dimensional Guidance for Angle-Constrained Interception. Journal of 49 1.6 23 Guidance, Control, and Dynamics, 2021, 44, 190-199. Lead Angle based Three-Dimensional Guidance for Angle Constrained Interception., 2021, ... Review of advanced guidance and control algorithms for space/aerospace vehicles. Progress in 53 6.3 80 Aerospace Sciences, 2021, 122, 100696. Ascent Trajectory Optimization for Air-Breathing Hypersonic Vehicles Based on IGS-MPSP. Research on 54 World Agricultural Economy, 2021, 01, 2150010. Spatial nonlinear guidance strategies for target interception at pre-specified orientation. Aerospace 55 2.59 Science and Technology, 2021, 114, 106735. Multistage Linear Gauss Pseudospectral Method for Piecewise Continuous Nonlinear Optimal Control Problems. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2298-2310.

#	Article	IF	CITATIONS
57	Composite impact vector control based on Apollo descent guidance. Chinese Journal of Aeronautics, 2022, 35, 67-74.	2.8	2
58	Unspecified final-time nonlinear suboptimal guidance of aerobatic aircraft in air race. Aerospace Science and Technology, 2021, 116, 106817.	2.5	5
59	Impact Vector Guidance. Journal of Guidance, Control, and Dynamics, 2021, 44, 1892-1901.	1.6	8
60	Sub-optimal fixed-finite-horizon spacecraft configuration control on SE(3). Chinese Journal of Aeronautics, 2022, 35, 250-261.	2.8	2
61	Quaternion based Three-Dimensional Impact Angle Constrained Guidance. IFAC-PapersOnLine, 2020, 53, 9446-9451.	0.5	4
62	Suboptimal closedâ€form feedback control of inputâ€affine nonâ€linear systems. IET Control Theory and Applications, 2020, 14, 2064-2075.	1.2	1
63	Field-of-View Constrained Three-Dimensional Impact Angle Control Guidance for Speed-Varying Missiles. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 3992-4003.	2.6	8
64	Three-dimensional field of view and impact angle constrained guidance with terminal speed maximization. Aerospace Science and Technology, 2022, 126, 107552.	2.5	8
65	Augmented Plane Pursuit for Impact-Angle Control in Three Dimensions. Journal of Guidance, Control, and Dynamics, 2022, 45, 1769-1775.	1.6	1
66	Linear Pseudospectral Method with Chebyshev Collocation for Optimal Control Problems with Unspecified Terminal Time. Aerospace, 2022, 9, 458.	1.1	1
67	Pseudospectral Convex Optimization based Model Predictive Static Programming for Constrained Guidance. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-16.	2.6	3
68	Three-Dimensional Biased Proportional Navigation Guidance Based on Spatial Rotation of Predicted Final Velocity. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-17.	2.6	1
69	Time-energy suboptimal control of nonlinear input-affine systems. International Journal of Control, 2023, 96, 3058-3071.	1.2	0
70	Augmented Lagrange Based Particle Swarm Optimization for Missile Interception Guidance. Lecture Notes in Electrical Engineering, 2023, , 411-421.	0.3	0
71	Multiple Constraints-Based Adaptive Three-Dimensional Back-Stepping Sliding Mode Guidance Law against a Maneuvering Target. Aerospace, 2022, 9, 796.	1.1	2
72	Fault-Tolerant Attitude Control for Hypersonic Flight Vehicle Subject to Actuators Constraint: A Model Predictive Static Programming Approach. IEEE Journal on Miniaturization for Air and Space Systems, 2023, 4, 136-145.	1.9	5
73	Impact Angle Constrained Guidance against Non-maneuvering Target with Bounded Input. , 2023, , .		0
74	Pseudo-Spectral MPSP-Based Unified Midcourse and Terminal Guidance for Reentry Targets. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 3982-3994.	2.6	2

#	Article	IF	CITATIONS
75	Integrated Geometric Optimal Control of Spacecraft Attitude and Orbit Based on <i>SE</i> (3). IEEE Access, 2023, 11, 27382-27394.	2.6	1
76	Ascent Predictive Guidance for Thrust Drop Fault of Launch Vehicles Using Improved GS-MPSP. , 2023, , 75-98.		0
77	Impact angle constraint guidance law using fully-actuated system approach. Aerospace Science and Technology, 2023, 136, 108220.	2.5	4
78	Active-set pseudospectral model predictive static programming for midcourse guidance. Aerospace Science and Technology, 2023, 134, 108137.	2.5	0
81	Review of Advanced Guidance and Control Methods. Springer Aerospace Technology, 2023, , 167-206.	0.2	0
82	Terminal velocity and impact angle control based on generalized polynomial guidance. , 2023, , .		0
83	Reference-power tracking control of Ultrabattery: Constrained Optimal Predictive Control Approach. , 2023, , .		0