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A topological obstruction to continuous global stabilization of rotational motion and the unwinding phenomenon

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#	Paper	IF	Citations
600	Quaternion feedback for spacecraft large angle maneuvers. <b>1985</b> , 8, 360-365		293
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598	Quaternion-Based Backstepping Control of Relative Attitude in a Spacecraft Formation. <b>2006</b> ,		10
597	. <b>2006</b> ,		31
596	Separation Property for the Rigid-Body Attitude Tracking Control Problem. <b>2007</b> , 30, 1569-1576		43
595	A PD+ APPROACH TO 6DOF SPACECRAFT COORDINATION CONTROL. <b>2007</b> , 40, 241-246		0
594	Is it worth learning differential geometric methods for modeling and control of mechanical systems?. <b>2007</b> , 25, 765-777		9
593	Feedback Stabilization of Isospectral Control Systems on Complex Flag Manifolds: Application to Quantum Ensembles. <b>2007</b> , 52, 2019-2028		58
592	A velocity-free attitude tracking controller for rigid spacecraft. <b>2007</b> ,		3
591	Attitude stabilization of the inverted 3D pendulum on TSO(3) with control saturation. <b>2007</b> ,		4
590	Formation Modelling and 6DOF Spacecraft Coordination Control. <b>2007</b> ,		4
589	Asymptotic stabilization of the hanging equilibrium manifold of the 3D pendulum. <b>2007</b> , 17, 1435-1454		18
588	Spacecraft coordination control in 6DOF: Integrator backstepping vs passivity-based control. <b>2008</b> , 44, 2896-2901		150
587	Output-feedback control for stabilization on SE(3). <i>Systems and Control Letters</i> , <b>2008</b> , 57, 1013-1022	2.4	26
586	Global analysis of the double-gimbal mechanism. <b>2008</b> , 28, 44-64		27
585	Almost Global Robust Attitude Tracking Control of Spacecraft in Gravity. <b>2008</b> ,		29
584	Global set stabilization of the spacecraft attitude using finite-time control technique. <b>2008</b> ,		

583	Unit Quaternion-Based Output Feedback for the Attitude Tracking Problem. <b>2008</b> , 53, 1516-1520	213
582	A Nonlinear GPS/IMU based observer for rigid body attitude and position estimation. <b>2008</b> ,	31
581	Output-feedback control for almost global stabilization of fully-actuated rigid bodies. <b>2008</b> ,	7
580	Set stabilization of nonholonomic chained form systems. <b>2008</b> ,	
579	High-Performance Spacecraft Adaptive Attitude-Tracking Control Through Attracting-Manifold Design. <b>2008</b> , 31, 884-891	105
578	Controls coefficient generalized inversion Lyapunov design for spacecraft attitude control. <b>2008</b> ,	0
577	Uniform practical output-feedback stabilization of spacecraft relative rotation. <b>2008</b> ,	0
576	Attitude synchronization of a spacecraft formation without velocity measurement. <b>2008</b> ,	11
575	A Landmark Based Nonlinear Observer for Attitude and Position Estimation with Bias Compensation. <b>2008</b> , 41, 3446-3451	2
574	Global Set Stabilization of the Spacecraft Attitude Control Problem Based on Quaternion. <b>2008</b> , 41, 4743-4748	1
573	A Nonlinear Observer for Rigid Body Attitude Estimation using Vector Observations. <b>2008</b> , 41, 8599-8604	17
572	Rotorcraft path following control for extended flight envelope coverage. <b>2009</b> ,	18
571	Robust feedback tracking of autonomous underwater vehicles with disturbance rejection. <b>2009</b> ,	7
570	Inertia-free spacecraft attitude trajectory tracking with internal-model-based disturbance rejection and almost global stabilization. <b>2009</b> ,	6
569	Combination of Lyapunov functions and density functions for stability of rotational motion. <b>2009</b> ,	1
568	. <b>2009</b> ,	
567	On the coordinated attitude alignment of a group of spacecraft without velocity measurements. <b>2009</b> ,	4
566	Inertia-Free Spacecraft Attitude Tracking with Disturbance Rejection and Almost Global Stabilization. <b>2009</b> , 32, 1167-1178	132

565	Almost global stabilization of fully-actuated rigid bodies. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 639-645	2.4	10
564	Spacecraft relative rotation tracking without angular velocity measurements. <b>2009</b> , 45, 750-756		67
563	Attitude Synchronization of a Group of Spacecraft Without Velocity Measurements. <b>2009</b> , 54, 2642-2648		201
562	Attitude Tracking Control of a Small Satellite in Low Earth Orbit. <b>2009</b> ,		7
561	Attitude Tracking and Disturbance Rejection of Rigid Spacecraft by Adaptive Control. <b>2009</b> , 54, 600-605		179
560	Robust global asymptotic stabilization of a 6-DOF rigid body by quaternion-based hybrid feedback. <b>2009</b> ,		12
559	Robust global asymptotic attitude stabilization of a rigid body by quaternion-based hybrid feedback. <b>2009</b> ,		44
558	Global set stabilisation of the spacecraft attitude using finite-time control technique. <b>2009</b> , 82, 822-836		121
557	Satellite Attitude Control by Quaternion-Based Backstepping. <b>2009</b> , 17, 227-232		129
556	Generalised dynamic inversion spacecraft control design methodologies. <b>2009</b> , 3, 239-251		29
555	. <b>2009</b> , 54, 1204-1215		63
554	Topological properties of asymptotically stable sets. <b>2010</b> , 73, 1093-1097		15
553	Singularity-free dynamic equations of vehicle manipulator systems. <b>2010</b> , 18, 712-731		39
552	A nonlinear position and attitude observer on SE(3) using landmark measurements. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 155-166	2.4	82
551	Multilayer minimum projection method for nonsmooth strict control Lyapunov function design. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 563-570	2.4	19
550	Global set stabilization of the spacecraft attitude control problem based on quaternion. <b>2010</b> , 20, 84-105		57
549	A robust nonlinear observer for rigid body attitude estimation. <b>2010</b> ,		
548	Design of nonlinear regulators from logic-based stabilizers. <b>2010</b> ,		

547	Hybrid control of planar rotations. <b>2010,</b>	17
546	Robust global asymptotic attitude synchronization by hybrid control. <b>2010,</b>	3
545	Attitude feedback tracking with optimal attitude state estimation. <b>2010,</b>	7
544	Multilayer minimum projection method with singular point assignment for nonsmooth control Lyapunov function design. <b>2010,</b>	2
543	Inertia-Free Spacecraft Attitude Control with Reaction-Wheel Actuation. <b>2010,</b>	6
542	Globally exponential estimation of satellite attitude using a single vector measurement and gyro. <b>2010,</b>	27
541	Backstepping Control Design with Actuator Torque Bound for Spacecraft Attitude Maneuver. <b>2010,</b> 33, 254-259	114
540	Asymptotic generalised dynamic inversion attitude control. <b>2010,</b> 4, 827-840	19
539	Global asymptotic stabilization of the inverted equilibrium manifold of the 3-D pendulum by hybrid feedback. <b>2010,</b>	11
538	Hybrid control of spherical orientation. <b>2010,</b>	12
537	Geometric tracking control of a quadrotor UAV on SE(3). <b>2010,</b>	451
536	On choosing quaternion equilibrium point in attitude stabilization. <b>2010,</b>	3
535	. <b>2010,</b>	2
534	Low-cost Attitude and Heading Reference System: Filter design and experimental evaluation. <b>2010,</b>	15
533	Path following through reference points for a car-like mobile robot. <b>2011,</b>	
532	An Almost Global Tracking Control Scheme for Maneuverable Autonomous Vehicles and its Discretization. <b>2011,</b> 56, 457-462	61
531	On quaternion-based attitude control and the unwinding phenomenon. <b>2011,</b>	33
530	. <b>2011,</b> 31, 30-51	360

529	. <b>2011</b> , 56, 2555-2566		206
528	References. <b>2011</b> , 549-566		1
527	Adaptive Position Tracking of VTOL UAVs. <b>2011</b> , 27, 129-142		127
526	Combination of Lyapunov and Density Functions for Stability of Rotational Motion. <b>2011</b> , 56, 2599-2607		13
525	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. <b>2011</b> , 27, 664-677		20
524	Position Control of VTOL UAVs using Inertial Vector Measurements?. <b>2011</b> , 44, 2614-2619		2
523	GES Attitude Observers [Part I: Multiple General Vector Observations. <b>2011</b> , 44, 2985-2990		3
522	Inertia-Independent Generalized Dynamic Inversion Spacecraft Control. <b>2011</b> , 44, 13819-13827		
521	GES Attitude Observers [Part II: Single Vector Observations. <b>2011</b> , 44, 2991-2996		3
520	On the topological structure of attraction basins for differential inclusions. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 1045-1050	2.4	26
519	A Precise and Robust Control Strategy for Rigid Spacecraft Eigenaxis Rotation. <b>2011</b> , 24, 484-492		6
518	Adaptive set stabilization of the attitude of a rigid spacecraft without angular velocity measurements. <b>2011</b> , 24, 105-119		5
517	Attitude Control for Spacecraft with Swinging Large-scale Payload. <b>2011</b> , 24, 309-317		4
516	Inertia-independent generalized dynamic inversion feedback control of spacecraft attitude maneuvers. <b>2011</b> , 68, 1742-1751		3
515	Quaternion-based finite time control for spacecraft attitude tracking. <b>2011</b> , 69, 48-58		95
514	Time-shared scheme design for attitude control system during space separation. <b>2011</b> , 15, 108-116		7
513	Asymptotic stabilization of passive systems without damping injection: A sampled integral technique. <b>2011</b> , 47, 262-271		20
512	Vision-based control for rigid body stabilization. <b>2011</b> , 47, 1020-1027		9

511	Hybrid control of rigid-body attitude with synergistic potential functions. <b>2011,</b>	17
510	. <b>2011,</b>	13
509	Computationally efficient GES cascade observer for attitude estimation. <b>2011,</b>	1
508	On the attitude estimation of accelerating rigid-bodies using GPS and IMU measurements. <b>2011,</b>	24
507	Precision Attitude Stabilization: Incorporating Rise and Fall Times in Gas-Based Thrusters. <b>2011, 34, 317-323</b>	7
506	Globally Stabilizing Proportional-Integral-Derivative Control Laws for Rigid-Body Attitude Tracking. <b>2011, 34, 1260-1264</b>	35
505	Synergistic Lyapunov functions and backstepping hybrid feedbacks. <b>2011,</b>	8
504	Stable manifolds of saddle equilibria for pendulum dynamics on $S^2$ and $SO(3)$ . <b>2011,</b>	13
503	Geometric tracking control of the attitude dynamics of a rigid body on $SO(3)$ . <b>2011,</b>	3
502	On the non-robustness of inconsistent quaternion-based attitude control systems using memoryless path-lifting schemes. <b>2011,</b>	6
501	Torque-saturated, Inertia-Free Spacecraft Attitude Control. <b>2011,</b>	6
500	Inertia-Free Spacecraft Attitude Control with Control Moment Gyroscope Actuation. <b>2012,</b>	5
499	A high level decentralized tracking algorithm for three manipulators subject to motion constraints. <b>2012,</b>	1
498	Position control for a class of vehicles in $SE(3)$ . <b>2012,</b>	4
497	Exact solutions to the closed loop kinematics of an almost globally stabilizing feedback law on $SO(3)$ . <b>2012,</b>	4
496	Attitude State Estimation with Multirate Measurements for Almost Global Attitude Feedback Tracking. <b>2012, 35, 868-880</b>	22
495	A landmark-based controller for global asymptotic stabilization on $SE(3)$ . <b>2012,</b>	1
494	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera. <b>2012,</b>	2

493	Nonlinear robust tracking control of a quadrotor UAV on SE(3). <b>2012,</b>		3
492	Attitude Estimation for Intervention-AUVs Working in Tandem with Autonomous Surface Craft. <b>2012, 18, 485-495</b>		2
491	Output feedback control of satellite attitude using a single vector measurement. <b>2012,</b>		1
490	The saturated quaternion control law with application for spacecraft formation flying. <b>2012,</b>		
489	GES integrated LBL/USBL navigation system for underwater vehicles. <b>2012,</b>		8
488	On the stability analysis of a discontinuous quaternion attitude control system. <b>2012,</b>		
487	Rigid Body Attitude Control Using a Single Vector Measurement and Gyro. <b>2012, 57, 1273-1279</b>		44
486	Modeling and Control of Quantum Systems: An Introduction. <b>2012, 57, 1898-1917</b>		132
485	Quaternion-Based Hybrid Feedback for Robust Global Attitude Synchronization. <b>2012, 57, 2122-2127</b>		42
484	Sensor-Based Globally Asymptotically Stable Filters for Attitude Estimation: Analysis, Design, and Performance Evaluation. <b>2012, 57, 2095-2100</b>		41
483	Globally exponentially stable cascade observers for attitude estimation. <b>2012, 20, 148-155</b>		34
482	A GES attitude observer with single vector observations. <b>2012, 48, 388-395</b>		42
481	Matched disturbance suppression for nonlinear systems stabilizable by logic-based feedback. <b>2012, 48, 886-893</b>		1
480	Exponential stability of an attitude tracking control system on SO(3) for large-angle rotational maneuvers. <i>Systems and Control Letters</i> , <b>2012, 61, 231-237</b>	2.4	141
479	Hybrid attitude tracking of rigid bodies without angular velocity measurement. <i>Systems and Control Letters</i> , <b>2012, 61, 595-601</b>	2.4	26
478	Multilayer Minimum Projection Method with Singular Point Assignment for Nonsmooth Control Lyapunov Function Design. <b>2013, 15, 340-349</b>		8
477	Nonlinear Robust Tracking Control of a Quadrotor UAV on SE(3). <b>2013, 15, 391-408</b>		180
476	Retraction obstruction to time-varying stabilization. <b>2013, 49, 1941-1943</b>		9

475	Composite control method for stabilizing spacecraft attitude in terms of Rodrigues parameters. <b>2013</b> , 26, 687-696	25
474	The quaternion-based attitude control system with an augmented dynamic. <b>2013</b> ,	
473	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. <b>2013</b> , 36, 1425-1439	38
472	Adaptive Compensation of Gyro Bias in Rigid-Body Attitude Estimation Using a Single Vector Measurement. <b>2013</b> , 58, 1816-1822	26
471	Global attitude and gyro bias estimation based on set-valued observers. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 937-942	2.4 7
470	Robust Adaptive Attitude Tracking on $\{SO\}(3)$ With an Application to a Quadrotor UAV. <b>2013</b> , 21, 1924-1930	150
469	Synergistic Hybrid Feedback for Global Rigid-Body Attitude Tracking on $\{SO\}(3)^{\ast}$ $\{SSR\}(3)^{\ast}$ . <b>2013</b> , 58, 2730-2742	40
468	Inertial Vector Measurements Based Velocity-Free Attitude Stabilization. <b>2013</b> , 58, 2893-2898	35
467	Introduction. <b>2013</b> , 1-10	
466	Event-triggered nonlinear control for attitude stabilization of a quadrotor. <b>2013</b> ,	7
465	Trajectory tracking control for a quadrotor helicopter based on backstepping using a decoupling quaternion parametrization. <b>2013</b> ,	8
464	Global trajectory tracking for a class of underactuated vehicles. <b>2013</b> ,	15
463	In the large certainty equivalence control with quaternion measurements. <b>2013</b> ,	1
462	Euler angle based feedback control of large eigenaxis rotations in the presence of singularities and model uncertainty. <b>2013</b> ,	2
461	Quaternion-based global attitude tracking controller for a quadrotor UAV. <b>2013</b> ,	2
460	New observer-based UAV attitude controller with gyroscopic bias estimation. <b>2013</b> ,	
459	Globally Asymptotically Stable Sensor-Based Simultaneous Localization and Mapping. <b>2013</b> , 29, 1380-1395	27
458	. <b>2013</b> , 58, 1179-1191	33

457	Attitude tracking control of a quadrotor UAV in the exponential coordinates. <b>2013</b> , 350, 2044-2068	26
456	Global stabilization of spherical orientation by synergistic hybrid feedback with application to reduced-attitude tracking for rigid bodies. <b>2013</b> , 49, 1945-1957	17
455	Motion Coordination for VTOL Unmanned Aerial Vehicles. <b>2013</b> ,	53
454	Simultaneous position and attitude control without linear and angular velocity feedback using dual quaternions. <b>2013</b> ,	25
453	Global trajectory tracking for underactuated VTOL aerial vehicles using a cascade control paradigm. <b>2013</b> ,	14
452	. <b>2013</b> , 29, 297-307	50
451	Analytical solutions to feedback systems on the special orthogonal group $SO(n)$ . <b>2013</b> ,	3
450	Robust global exponential attitude tracking controls on $SO(3)$ . <b>2013</b> ,	0
449	. <b>2013</b> ,	11
448	Nonlinear observer for 3D rigid body motion. <b>2013</b> ,	10
447	. <b>2013</b> ,	5
446	Stochastic optimal motion planning and estimation for the attitude kinematics on $SO(3)$ . <b>2013</b> ,	
445	Passivity-Based Attitude Control on the Special Orthogonal Group of Rigid-Body Rotations. <b>2013</b> , 36, 1596-1605	29
444	Stability analysis and near optimal gain tuning of an attitude estimator on the special orthogonal group. <b>2013</b> ,	
443	Adaptive Model-Independent Tracking of Rigid Body Position and Attitude Motion with Mass and Inertia Matrix Identification using Dual Quaternions. <b>2013</b> ,	12
442	Static input allocation for reaction wheels desaturation using magnetorquers. <b>2013</b> , 46, 559-564	1
441	Fast and Saturating Thrust Direction Control for a Quadrotor Helicopter. <b>2013</b> , 61, 172-182	2
440	Rigid body motion tracking without linear and angular velocity feedback using dual quaternions. <b>2013</b> ,	17

439	Fast and saturating attitude control for a quadrotor helicopter. <b>2013,</b>	0
438	Global estimation of rigid-body attitude/position using a single landmark and biased velocity measurements. <b>2014,</b>	1
437	Switching Angular Velocity Observer for Rigid-Body Attitude Stabilization and Tracking Control. <b>2014, 37, 869-878</b>	33
436	Attitude control of a multicopter using L1 augmented quaternion based backstepping. <b>2014,</b>	6
435	A hybrid feedback controller for robust global trajectory tracking of quadrotor-like vehicles with minimized attitude error. <b>2014,</b>	1
434	. <b>2014, 50, 2578-2592</b>	50
433	Partial Lyapunov Strictification: Smooth Angular Velocity Observers for Attitude Tracking Control. <b>2014,</b>	3
432	Attitude consensus using quaternion-based controller composing augmented dynamic. <b>2014,</b>	0
431	Switching strategy for flexible task execution using the cooperative dual task-space framework. <b>2014,</b>	9
430	Asymptotic stabilization of quadrotor helicopter's attitude using an optimal hierarchical control technique. <b>2014,</b>	0
429	Geometric PID Control for Almost-Global Stabilization of a Quadrotor With Parameter Error and Constant Disturbances. <b>2014,</b>	5
428	An Observer for Rigid Body Motion With Almost Global Finite-Time Convergence. <b>2014,</b>	2
427	Pose-Tracking Controller for Satellites with Time-Varying Inertia. <b>2014,</b>	3
426	An intrinsic robust PID controller on Lie groups. <b>2014,</b>	3
425	. <b>2014, 50, 2070-2081</b>	3
424	. <b>2014,</b>	0
423	Attitude Control with Analytic Disturbance-Rejection Guarantee. <b>2014, 37, 1791-1807</b>	4
422	Position tracking of a hexacopter using a geometric backstepping control law - Experimental results. <b>2014,</b>	9

421	Quaternion-Based Attitude Control System Design of Single and Cooperative Spacecrafts: Boundedness of Solution Approach. <b>2014</b> , 2014, 1-13	0
420	Contraction theory on Riemannian manifolds. <i>Systems and Control Letters</i> , <b>2014</b> , 65, 74-80	2.4 35
419	Autonomous attitude coordinated control for spacecraft formation with input constraint, model uncertainties, and external disturbances. <b>2014</b> , 27, 602-612	34
418	Hard Real-Time Implementation of a Nonlinear Controller for the Quadrotor Helicopter. <b>2014</b> , 73, 81-97	13
417	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. <b>2014</b> , 26, 1-10	105
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414	Decentralized sliding-mode control for spacecraft attitude synchronization under actuator failures. <b>2014</b> , 105, 333-343	25
413	Output Regulation for Control Systems on $\mathbb{S}E(n)$ : A Separation Principle Based Approach. <b>2014</b> , 59, 3057-3062	7
412	. <b>2014</b> , 50, 1163-1181	38
411	Velocity-free saturated PD controller for asymptotic stabilization of spacecraft. <b>2014</b> , 39, 6-12	16
410	Saturated proportional derivative control of flexible-joint manipulators. <b>2014</b> , 30, 658-666	14
409	Almost global finite-time stable observer for rigid body attitude dynamics. <b>2014</b> ,	5
408	Design and development of a free-floating hexrotor UAV for 6-DOF maneuvers. <b>2014</b> ,	32
407	Distributed Attitude Synchronization and Tracking Control for Multiple Rigid Bodies. <b>2014</b> , 22, 478-490	39
406	Attitude Stabilization of a Quadrotor by Means of Event-Triggered Nonlinear Control. <b>2014</b> , 73, 123-135	34
405	Almost global attitude stabilization of a rigid body for both internal and external actuation schemes. <b>2014</b> , 20, 45-54	17
404	Adaptive finite-time backstepping control for attitude tracking of spacecraft based on rotation matrix. <b>2014</b> , 27, 375-382	44

403	Homography-based Visual Servoing for Autonomous Underwater Vehicles. <b>2014</b> , 47, 5726-5733	14
402	Global Observer-Based Attitude Controller Using Direct Inertial Measurements. <b>2014</b> , 11, 54	
401	Relative Attitude Trajectory Tracking Using Line Of Sight Measurements Under Spacecraft Position Dynamics. <b>2014</b> , 47, 455-461	1
400	Attitude and earth velocity estimation - Part I: Globally exponentially stable observer. <b>2014</b> ,	9
399	Analytical Solutions to a Class of Feedback Systems on $SO(n)$ . <b>2014</b> , 47, 445-450	2
398	Attitude and earth velocity estimation - Part II: Observer on the special orthogonal group. <b>2014</b> ,	7
397	Event-triggered attitude control for flying robots using an event approach based on the control. <b>2015</b> ,	4
396	Fuzzy PID Controller Based on Improved Neural Network for Satellite Attitude. <b>2015</b> ,	0
395	Observer-based spacecraft attitude tracking with guaranteed performance bounds. <b>2015</b> ,	3
394	CLF based design for attitude control of VTOL-UAVs: An inverse optimal control approach. <b>2015</b> ,	0
393	Attitude and angular velocity tracking for a rigid body using geometric methods on the two-sphere. <b>2015</b> ,	3
392	Geometric Controllability and Stabilization of Spherical Robot Dynamics. <b>2015</b> , 60, 2762-2767	26
391	An intrinsic PID controller for mechanical systems on Lie groups. <b>2015</b> , 54, 189-200	21
390	On the design of synergistic potential functions on $SO(3)$ . <b>2015</b> ,	6
389	Distributed control for intrinsic reduced attitude formation with ring inter-agent graph. <b>2015</b> ,	4
388	Output feedback, attitude dynamics, robustness. <b>2015</b> ,	2
387	Global exponential stabilization on the n-dimensional sphere. <b>2015</b> ,	4
386	Adaptive attitude tracking control with parameter identification by shaping invariant manifold. <b>2015</b> ,	

385	Space design for the multilayer minimum projection method in nonsmooth control Lyapunov function design. <b>2015</b> ,	0
384	Globally Asymptotically Stable Attitude Observer on $SO(3)$ . <b>2015</b> ,	15
383	Direction-cosine-matrix-based attitude control subject to actuator saturation. <b>2015</b> , 9, 1653-1661	3
382	Path-Tracking Control of Stochastic Quadrotor Aircraft in Three-Dimensional Space. <b>2015</b> , 137,	6
381	Gyro-Free Rigid-Body Attitude Stabilization Using only Vector Measurements. <b>2015</b> , 38, 811-818	13
380	A globally asymptotically stabilizing trajectory tracking controller for fully actuated rigid bodies using landmark-based information. <b>2015</b> , 25, 3617-3640	7
379	Simple finite-time attitude stabilization laws for rigid spacecraft with bounded inputs. <b>2015</b> , 42, 176-186	51
378	Partial Lyapunov Strictification: Smooth Angular Velocity Observers for Attitude Tracking Control. <b>2015</b> , 38, 442-451	38
377	Reaction Wheels Desaturation Using Magnetorquers and Static Input Allocation. <b>2015</b> , 23, 525-539	37
376	Global Exponential Attitude Tracking Controls on $\mathbb{S}O(3)$ . <b>2015</b> , 60, 2837-2842	64
375	Coordinated path following for unicycles: A nested invariant sets approach. <b>2015</b> , 60, 17-29	10
374	Cooperative attitude tracking control for multiple spacecraft using vector measurements. <b>2015</b> , 229, 2375-2388	3
373	Robust global trajectory tracking for a class of underactuated vehicles. <b>2015</b> , 58, 90-98	32
372	Delayed Feedback Asymptotic Stabilization of Rigid Body Attitude Motion for Large Rotations**Financial support from the National Science Foundation under Grant No. CMMI131646 is gratefully acknowledged.. <b>2015</b> , 48, 81-86	3
371	Contributions to tracking control for mechanical systems on $SE(2)$ . <b>2015</b> ,	
370	Hybrid Certainty Equivalence Control of Rigid Bodies With Quaternion Measurements. <b>2015</b> , 60, 2512-2517	8
369	. <b>2015</b> , 3, 1592-1604	22
368	An open-source architecture for control and coordination of a swarm of micro-quadrotors. <b>2015</b> ,	9

367	Spacecraft Anti-Unwinding Attitude Control with Actuator Nonlinearities and Velocity Limit. <b>2015</b> , 38, 2042-2050	41
366	Attitude control with active actuator saturation prevention. <b>2015</b> , 107, 187-195	12
365	Output feedback control for rigid-body attitude with constant disturbances. <b>2015</b> , 88, 602-612	15
364	Globally exponentially stable attitude and gyro bias estimation with application to GNSS/INS integration. <b>2015</b> , 51, 158-166	68
363	Adaptive Position and Attitude-Tracking Controller for Satellite Proximity Operations Using Dual Quaternions. <b>2015</b> , 38, 566-577	120
362	Passive velocity field control with discontinuous desired velocity fields: Non-smooth potential gradient vector field by locally semiconcave functions. <b>2016</b> ,	0
361	The variational attitude estimator in the presence of bias in angular velocity measurements. <b>2016</b> ,	3
360	Cooperative Relative Navigation for Space Rendezvous and Proximity Operations using Controlled Active Vision. <b>2016</b> , 33, 205-228	9
359	Almost global finite-time stabilization of rigid body attitude dynamics using rotation matrices. <b>2016</b> , 26, 2008-2022	49
358	Extended Kalman filter on $SE(3)$ for geometric control of a quadrotor UAV. <b>2016</b> ,	5
357	Autonomous aerial payload delivery with quadrotor using varying length cable. <b>2016</b> ,	4
356	Fault tolerant attitude control using anti-unwinding second-order sliding mode. <b>2016</b> ,	2
355	Optimal hybrid controls for global exponential tracking on the two-sphere. <b>2016</b> ,	4
354	Global convergence properties of a consensus protocol on the n-sphere. <b>2016</b> ,	5
353	Disturbance observer-based attitude stabilization on lie groups. <b>2016</b> ,	
352	. <b>2016</b> ,	5
351	A globally exponentially stable hybrid attitude and gyro-bias observer. <b>2016</b> ,	4
350	On deterministic attitude observers on the Special Orthogonal group $SO(3)$ . <b>2016</b> ,	3

349	Output regulation on the Special Euclidean Group $SE(3)$ . <b>2016</b> ,	2
348	Velocity-free hybrid attitude stabilization using inertial vector measurements. <b>2016</b> ,	1
347	Attitude and position tracking of autonomous 6 d.o.f. vehicles with mono-directional actuators. <b>2016</b> ,	2
346	Stabilization of a Rigid Body Payload With Multiple Cooperative Quadrotors. <b>2016</b> , 138,	21
345	Saturated control of flexible-joint manipulators using a Hammerstein strictly positive real compensator. <b>2016</b> , 34, 1367-1382	6
344	. <b>2016</b> , 52, 411-422	29
343	A Global Tracking Controller for Underactuated Aerial Vehicles: Design, Analysis, and Experimental Tests on Quadrotor. <b>2016</b> , 21, 2499-2511	54
342	Decentralized attitude synchronization tracking control for multiple spacecraft under directed communication topology. <b>2016</b> , 29, 995-1006	20
341	Angular velocity observer for attitude tracking on $SO(3)$ with the separation property. <b>2016</b> , 14, 1289-1298	7
340	Geometric adaptive control of attitude dynamics on $SO(3)$ with state inequality constraints. <b>2016</b> ,	3
339	Finite-time output-feedback position and attitude tracking of a rigid body. <b>2016</b> , 74, 270-278	35
338	Exponential stabilization of a vectored-thrust vehicle using synergistic potential functions. <b>2016</b> ,	
337	MPC on manifolds with an application to $SE(3)$ . <b>2016</b> ,	3
336	Global finite-time attitude tracking via quaternion feedback. <i>Systems and Control Letters</i> , <b>2016</b> , 97, 176-183	31
335	Quaternion-Based Stabilization of Attitude Dynamics Subject to Pointwise Delay in the Input. <b>2016</b> , 39, 1697-1705	3
334	Exponential convergence of a nonlinear attitude estimator. <b>2016</b> , 72, 11-18	15
333	Gyro-free attitude observer of rigid body via only time-varying reference vectors. <b>2016</b> ,	
332	Finite-time attitude stabilization for rigid bodies without angular velocity measurement. <b>2016</b> ,	

331	Fault tolerant control for a hexarotor system using Incremental Backstepping. <b>2016,</b>	6
330	Global hybrid attitude estimation on the Special Orthogonal group $SO(3)$ . <b>2016,</b>	5
329	Lyapunov-Based Control for Flat-Spin Recovery and Spin Inversion of Spin-Stabilized Spacecraft. <b>2016,</b>	
328	Sensors model based data fusion using complementary filters for attitude estimation and stabilization. <b>2016,</b>	2
327	. <b>2016,</b> 52, 852-862	4
326	Line-of-sight based spacecraft attitude and position tracking control. <b>2016,</b> 32, 43-53	6
325	Anti-disturbance inverse optimal control for spacecraft position and attitude maneuvers with input saturation. <b>2016,</b> 8, 168781401664988	9
324	Velocity-free attitude stabilization with inertial vector measurements. <b>2016,</b> 26, 2478-2493	8
323	Anti-unwinding constrained attitude control for flexible spacecraft with actuator saturation. <b>2016,</b> 230, 90-104	11
322	Almost Global Stochastic Stabilization of Attitude Motion with Unknown Multiplicative Diffusion Coefficient. <b>2016,</b>	3
321	Observer-Based Adaptive Spacecraft Attitude Control With Guaranteed Performance Bounds. <b>2016</b> , 61, 3146-3151	28
320	Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. <b>2016,</b> 61, 3580-3585	4
319	Leader-following attitude consensus of multiple rigid body systems by attitude feedback control. <b>2016,</b> 69, 87-92	69
318	Robust adaptive relative position and attitude control for spacecraft autonomous proximity. <b>2016,</b> 63, 11-19	8
317	Finite-time coordination control for formation flying spacecraft without unwinding. <b>2016,</b> 230, 172-188	11
316	Tightly coupled long baseline/ultra-short baseline integrated navigation system. <b>2016,</b> 47, 1837-1855	14
315	Nonlinear Attitude Control of Spacecraft with a Large Captured Object. <b>2016,</b> 39, 754-769	50
314	Stability analysis of velocity-aided attitude observers for accelerated vehicles. <b>2016,</b> 63, 11-15	19

313	Exact solutions to a class of feedback systems on . <b>2016</b> , 63, 138-147	14
312	Dual-quaternion-based adaptive motion tracking of spacecraft with reduced control effort. <b>2016</b> , 83, 597-614	46
311	Almost global trajectory tracking control of quadrotors with constrained control inputs. <b>2016</b> , 230, 856-869	8
310	Nonlinear Estimator Design on the Special Orthogonal Group Using Vector Measurements Directly. <b>2017</b> , 62, 149-160	22
309	Quaternion-based attitude synchronisation for multiple rigid bodies in the presence of actuator saturation. <b>2017</b> , 48, 505-514	6
308	Construction of Synergistic Potential Functions on $SO(3)$ With Application to Velocity-Free Hybrid Attitude Stabilization. <b>2017</b> , 62, 495-501	31
307	Robust Global Trajectory Tracking for Underactuated VTOL Aerial Vehicles Using Inner-Outer Loop Control Paradigms. <b>2017</b> , 62, 97-112	65
306	Robust adaptive relative motion control for spacecraft proximity operations. <b>2017</b> , 231, 760-769	1
305	Nonlinear hierarchical control for quad-rotors with rotation matrix. <b>2017</b> , 90, 1308-1318	12
304	Finite-time angular velocity observers for rigid-body attitude tracking with bounded inputs. <b>2017</b> , 27, 15-38	37
303	. <b>2017</b> , 53, 419-430	22
302	. <b>2017</b> , 53, 91-100	25
301	Dynamics and Precision Control of Tumbling Multibody Systems. <b>2017</b> , 40, 584-602	6
300	Adaptive fault-tolerant spacecraft attitude control using a novel integral terminal sliding mode. <b>2017</b> , 27, 3174-3196	59
299	Comment on Globally Asymptotic Stabilization of Spacecraft with Simple Saturated Proportional-Derivative Control <b>2017</b> , 40, 1538-1540	
298	Formation tracking control for multiple rigid bodies on matrix Lie groups: A system decomposition approach. <b>2017</b> , 27, 4188-4207	5
297	Hybrid kinematic control for rigid body pose stabilization using dual quaternions. <b>2017</b> , 354, 2769-2787	16
296	Hovering control for quadrotor aircraft based on finite-time control algorithm. <b>2017</b> , 88, 2359-2369	34

295	Distributed attitude and translation consensus for networked rigid bodies based on unit dual quaternion. <b>2017</b> , 27, 3971-3989	5
294	A geodesic feedback law to decouple the full and reduced attitude. <i>Systems and Control Letters</i> , <b>2017</b> , 102, 32-41	2.4 9
293	Hybrid global exponential stabilization on $SO(3)$ . <b>2017</b> , 81, 279-285	25
292	Unified attitude control for spacecraft under velocity and control constraints. <b>2017</b> , 67, 257-264	23
291	Stabilization of rigid body attitude motion with time-delayed feedback. <b>2017</b> , 68, 509-517	9
290	. <b>2017</b> , 33, 1041-1060	19
289	Backstepping for control Lyapunov function design on manifold. <b>2017</b> , 83, 100-107	3
288	Backstepping control for attitude tracking of the spacecraft under input saturation. <b>2017</b> , 138, 318-325	28
287	Robust global bimodal rest-to-rest attitude control of rigid body using unit quaternion. <b>2017</b> , 354, 3554-3573	5
286	A class of globally stabilizing feedback controllers for the orbital rendezvous problem. <b>2017</b> , 27, 4607-4621	4
285	Robust Switching of Modified Rodrigues Parameter Sets for Saturated Global Attitude Control. <b>2017</b> , 40, 1529-1542	10
284	Global Formulation of an Extended Kalman Filter on $SE(3)$ for Geometric Control of a Quadrotor UAV. <b>2017</b> , 88, 395-413	13
283	MPC on manifolds with an application to the control of spacecraft attitude on $SO(3)$ . <b>2017</b> , 76, 293-300	26
282	Intrinsic reduced attitude formation with ring inter-agent graph. <b>2017</b> , 85, 193-201	9
281	Adaptive trajectory tracking controller for quadrotor systems subject to parametric uncertainties. <b>2017</b> , 354, 6724-6746	24
280	Formation control of quadrotor UAVs without linear velocity measurements. <b>2017</b> ,	4
279	Spacecraft Attitude-Formation Tracking Using Line-of-Sight Measurements. <b>2017</b> , 40, 2616-2629	4
278	Adaptive output feedback attitude control of a LEO satellite under angular velocity constraints. <b>2017</b> ,	

277	Dual quaternion-based bimodal global control for robust rigid body pose kinematic stabilization. <b>2017,</b>	2
276	Global finite-time attitude consensus tracking control for a group of rigid spacecraft. <b>2017, 48, 2703-2712</b>	7
275	Attitude control strategies overcoming the topological obstruction on $SO(3)$ . <b>2017,</b>	3
274	Coordinate independent adaptive attitude tracking control design for spacecraft robust to time-varying system uncertainties. <b>2017, 90, 2206-2226</b>	3
273	Vector-Based Adaptive Attitude Observer and Controller on Special Orthogonal Group. <b>2017, 19, 748-764</b>	2
272	Global attitude estimation using single delayed vector measurement and biased gyro. <b>2017, 75, 88-95</b>	8
271	Robust attitude tracking for rigid spacecraft with prescribed transient performance. <b>2017, 90, 2471-2479</b>	33
270	Terminal Sliding Mode Control for Attitude Tracking of Spacecraft under Input Saturation. <b>2017, 30, 06016006</b>	23
269	Trajectory tracking controller for quadrotors without velocity and angular velocity measurements. <b>2017, 11, 101-109</b>	21
268	Rigid Body Attitude Control Based on a Manifold Representation of Direction Cosine Matrices. <b>2017, 783, 012040</b>	1
267	Attitude synchronization control for multi-agent systems on unit quaternions. <b>2017,</b>	0
266	Exponential attitude and gyro-bias estimation on the Special orthogonal group $SO(3)$ . <b>2017,</b>	
265	Finite-time attitude synchronization with a discontinuous protocol. <b>2017,</b>	1
264	Learning task-space synergies using Riemannian geometry. <b>2017,</b>	2
263	Intrinsic formation control of regular polyhedra for reduced attitudes. <b>2017,</b>	0
262	Almost global tracking control of a quadrotor UAV on $SE(3)$ . <b>2017,</b>	4
261	Hybrid gradient descent for robust global optimization on the circle. <b>2017,</b>	7
260	Hybrid feedback for global asymptotic stabilization on a compact manifold. <b>2017,</b>	5

259	Passive velocity field control with discontinuous desired fields: Non-smooth potential gradient vector field. <b>2017,</b>		
258	Velocity-free hybrid attitude tracking of rigid body on special orthogonal group. <b>2017,</b>		
257	Intrinsic PID controller for a segway type mobile robot. <b>2017,</b>		2
256	Finite-Time Attitude Synchronization With Distributed Discontinuous Protocols. <b>2018,</b> 63, 3608-3615		10
255	On impulsive isoenergetic control in systems with gyroscopic forces. <b>2018,</b> 100, 1-5		1
254	On topological obstructions to global stabilization of an inverted pendulum. <i>Systems and Control Letters</i> , <b>2018,</b> 113, 31-35	2.4	10
253	Distributed almost global finite-time attitude consensus of multiple spacecraft without velocity measurements. <b>2018,</b> 75, 284-296		42
252	Redundant MEMS-Based Inertial Navigation Using Nonlinear Observers. <b>2018,</b> 140,		12
251	Fractional Control of Rigid Body Attitude Dynamics Using Exponential Coordinates. <b>2018,</b>		0
250	Morse-Lyapunov-Based Control of Rigid Body Motion on TSE(3) via Backstepping. <b>2018,</b>		4
249	Decentralised attitude synchronisation of multiple rigid bodies on lie group SO (3). <b>2018,</b> 12, 97-109		11
248	Global finite-time attitude consensus of leader-following spacecraft systems based on distributed observers. <b>2018,</b> 91, 225-232		36
247	Distributed finite-time output feedback synchronisation control for six DOF spacecraft formation subject to input saturation. <b>2018,</b> 12, 532-542		23
246	Global finite-time attitude stabilization for rigid spacecraft in the exponential coordinates. <b>2018,</b> 91, 1325-1337		8
245	Attitude guidance and tracking for spacecraft with two reaction wheels. <b>2018,</b> 91, 926-936		10
244	On input-to-state stability of rigid-body attitude control with quaternion representation. <b>2018,</b> 28, 1334-1349		6
243	Spacecraft Anti-Unwinding Attitude Control Using Second-Order Sliding Mode. <b>2018,</b> 20, 455-468		40
242	Backstepping sliding mode control for formation flying spacecraft. <b>2018,</b> 90, 56-64		4

241	Output regulation for systems on matrix Lie-groups. <b>2018</b> , 87, 8-16	9
240	Intrinsic tetrahedron formation of reduced attitude. <b>2018</b> , 87, 375-382	4
239	Momentum Control of an Underactuated Flying Humanoid Robot. <b>2018</b> , 3, 195-202	10
238	Specified Finite Time Attitude Stabilization for Rigid Body on $SO(3)$ . <b>2018</b> ,	0
237	. <b>2018</b> ,	7
236	Global asymptotic stabilization of spherical orientation by synergistic hybrid feedback with application to reduced attitude synchronization. <b>2018</b> ,	2
235	Generalized sampling solutions for discontinuous stabilization of nonlinear systems. <b>2018</b> , 51, 192-197	
234	Hovering Control for Automatic Landing Operation of An Inspection Drone to A Mobile Platform. <b>2018</b> , 51, 245-250	1
233	Time-varying Control Lyapunov Function Design for Nonlinear Systems Defined on Manifolds. <b>2018</b> ,	
232	Path-Following Control of Rigid Body Attitude by Using Minimum Projection Method. <b>2018</b> ,	
231	Passivity-Based Adaptive Internal Model Attitude Tracking Control of Uncertain Rigid Spacecraft. <b>2018</b> ,	1
230	Attitude and pose formation control for multiple 3D rigid bodies based on unit quaternion representation. <b>2018</b> ,	
229	Kinematic Feedback Control Using Dual Quaternions. <b>2018</b> ,	2
228	Adaptive Fault Tolerant Control of Quadcopter by Using Minimum Projection Method. <b>2018</b> ,	0
227	Disturbance rejection control of rigid body attitude based on nonsmooth control Lyapunov function. <b>2018</b> ,	
226	Saturated Output Feedback Control for Global Asymptotic Attitude Tracking of Spacecraft. <b>2018</b> , 41, 2300-2307	4
225	. <b>2018</b> , 63, 1664-1675	52
224	Multiple Model Adaptive Attitude Control of LEO Satellite with Angular Velocity Constraints. <b>2018</b> , 19, 153-163	4

223	Consensus on $SO(3)$ with Piecewise-Continuous Sinusoids. <b>2018</b> ,	2
222	Spacecraft Attitude Fractional Feedback Control Using Rotation Matrices and Exponential Coordinates. <b>2018</b> , 41, 2185-2198	13
221	Trajectory linearization control on $SO(3)$ with application to aerial manipulation. <b>2018</b> , 355, 7072-7097	8
220	Geometric Surface-Based Tracking Control of a Quadrotor UAV for Aggressive Maneuvers. <b>2018</b> ,	
219	On Negotiating Aggressive Quadrotor Attitude Tracking Maneuvers Under Actuator Constraints. <b>2018</b> ,	1
218	Attitude Kinematics. <b>2018</b> , 237-297	
217	Simplex sliding mode control for autonomous six-DOF vehicles with mono-directional actuators: Robustness, stability, and implementation issues. <b>2019</b> , 29, 529-549	3
216	Comparative study of attitude control methods based on Euler angles, quaternions, angle-axis pairs and orientation matrices. <b>2019</b> , 41, 1189-1206	10
215	Active Fault-Tolerant Control System Design for Spacecraft Attitude Maneuvers with Actuator Saturation and Faults. <b>2019</b> , 66, 3763-3772	88
214	Geometric Attitude Control of Rigid Body with State Constraints. <b>2019</b> ,	1
213	A Total Energy Attitude Control System Strategy for Rigid Spacecraft. <b>2019</b> , 7, 112996-113004	
212	Global saturated velocity-free finite-time control for attitude tracking of spacecraft. <b>2019</b> , 13, 1591-1602	3
211	Inertial vector measurements based attitude synchronization control for multiple spacecraft formation. <b>2019</b> , 93, 105309	11
210	Topological properties for compact stable attractors in $R^n$ . <b>2019</b> , 15-21	1
209	Adaptive Sliding Mode Control for Spacecraft Proximity Operations Based on Dual Quaternions. <b>2019</b> , 42, 2356-2368	18
208	A Global and Exponential Nonlinear Observer for Rigid Body Pose Estimation with a Single Landmark Reading. <b>2019</b> ,	0
207	Flight Control Methods for Multirotor UAS. <b>2019</b> ,	0
206	Finite Time Stable Attitude and Angular Velocity Bias Estimation for Rigid Bodies With Unknown Dynamics. <b>2019</b> ,	3

205	High Performance Adaptive Attitude Control of a Quadrotor. <b>2019,</b>	1
204	Robust global exponential stabilization on the n-dimensional sphere with applications to trajectory tracking for quadrotors. <b>2019,</b> 110, 108534	9
203	Robust Adaptive Attitude Synchronization of Uncertain Rigid Bodies on Special Orthogonal Group with Communication Delays and Gyro Biases. <b>2019,</b> 17, 2769-2783	2
202	Trajectory Tracking for Quadrotors with Attitude Control on $\mathcal{S}^2 \times \mathcal{S}^1$ . <b>2019,</b>	0
201	Continuous adaptive-gain finite-time control for rigid body attitude dynamics on SO(3). <b>2019,</b> 50, 178-190	2
200	Nonlinear Observer on SO(3) for Attitude Estimation on Rotating Earth Using Single Vector Measurements. <b>2019,</b> 3, 392-397	6
199	Geometric control with model predictive static programming on SO(3). <b>2019,</b> 159, 471-479	4
198	Hybrid Adaptive Control of Spacecraft Attitude with Input Saturation and External Disturbance. <b>2019,</b> 42, 642-649	4
197	. <b>2019,</b> 55, 2938-2950	12
196	Finite time stable attitude estimation of rigid bodies with unknown dynamics. <b>2019,</b> 21, 1522-1530	2
195	Sensing and Estimation of Spacecraft Dynamics. <b>2019,</b> 308-348	
194	Robust formation control in SE(3) for tree-graph structures with prescribed transient and steady state performance. <b>2019,</b> 103, 538-548	27
193	Globally exponentially stable attitude observer with Earth velocity estimation. <b>2019,</b> 21, 1409-1422	6
192	A New Hybrid Control Strategy for the Global Attitude Tracking Problem. <b>2019,</b>	1
191	Sliding Motions on SO(3), Sliding Subgroups. <b>2019,</b>	1
190	Attitude Observer on SO(3) with Time-Varying Reference Directions. <b>2019,</b>	3
189	Attitude Observation for Second Order Attitude Kinematics. <b>2019,</b>	4
188	Nonlinear Model Predictive Control of Coupled Rotational-Translational Spacecraft Relative Motion. <b>2019,</b>	2

187	Swing up Control of Inverted Pendulum on a Cart with Collision by Monte Carlo Model Predictive Control. <b>2019,</b>	3
186	Formation Control in a Leader-Fixed Frame for Agents with Extended Unicycle Dynamics that Include Orientation Kinematics on $SO(m)$ . <b>2019,</b>	3
185	. <b>2019,</b>	0
184	Observer and first-order low-pass filter based attitude estimation for rigid bodies subject to external acceleration. <b>2019,</b>	0
183	Global Optimization on the Sphere: A Stochastic Hybrid Systems Approach. <b>2019,</b> 52, 96-101	1
182	Almost global decentralised formation tracking for multiple distinct UAVs. <b>2019,</b> 52, 186-191	1
181	Quaternion-based robust sliding mode control for spacecraft attitude tracking. <b>2019,</b>	0
180	Semiglobal Nonmemoryless Attitude Controls on the Special Orthogonal Group. <b>2019,</b> 141,	2
179	Partial Lyapunov Strictification: Dual-Quaternion-Based Observer for 6-DOF Tracking Control. <b>2019,</b> 27, 2453-2469	9
178	Adaptive Sliding Mode Control Laws for Attitude Stabilization of Flexible Spacecraft With Inertia Uncertainty. <b>2019,</b> 7, 7159-7175	11
177	Orientation control on $SO(3)$ with piecewise sinusoids. <b>2019,</b> 100, 114-122	7
176	Control of a Driftless Bilinear Vector Field on $S^n$ -Sphere. <b>2019,</b> 64, 3226-3238	1
175	Global fixed-time attitude tracking control for the rigid spacecraft with actuator saturation and faults. <b>2019,</b> 155, 325-333	16
174	Robust H attitude tracking control of a quadrotor UAV on $SO(3)$ via variation-based linearization and interval matrix approach. <b>2019,</b> 87, 10-16	30
173	Rigid Body Adaptive Stabilization on the Tangent Bundle of the LIE Groups. <b>2019,</b>	1
172	Coordinated trajectory tracking of multiple vertical take-off and landing UAVs. <b>2019,</b> 99, 33-40	38
171	Disturbance observer-based quadrotor attitude tracking control for aggressive maneuvers. <b>2019,</b> 82, 14-23	60
170	Integrated Visual Servoing Solution to Quadrotor Stabilization and Attitude Estimation Using a Pan and Tilt Camera. <b>2019,</b> 27, 14-29	3

169	Immersion and Invariance-Based Adaptive Controller for Quadrotor Systems. <b>2019</b> , 49, 2288-2297	38
168	Robust Cooperative Manipulation Without Force/Torque Measurements: Control Design and Experiments. <b>2020</b> , 28, 713-729	13
167	A Comparative Study of Different Control Structures for Flight Control With New Results. <b>2020</b> , 28, 291-305	2
166	The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on $SO(3)$ . <b>2020</b> , 50, 1610-1621	27
165	Uniformly semiglobally exponential stability of vector field guidance law and autopilot for path-following. <b>2020</b> , 53, 88-97	13
164	An intrinsic approach to formation control of regular polyhedra for reduced attitudes. <b>2020</b> , 111, 108619	3
163	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. <b>2020</b> , 65, 1870-1885	5
162	Leader-Following Consensus for a Class of Multiple Robot Manipulators over Switching Networks by Distributed Position Feedback Control. <b>2020</b> , 65, 890-896	7
161	Attitude tracking of multiple spacecraft on $SO(3)$ with attitude constraints. <b>2020</b> ,	
160	Attitude Control of Novel Tail Sitter: Swiveling Biplane Quadrotor. <b>2020</b> , 43, 599-607	12
159	Robust formation control of multiagent systems on the Lie group $SE(3)$ . <b>2020</b> , 30, 966-998	5
158	High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally. <b>2020</b> , 113, 108736	14
157	Rotation-Translation coupling analysis on perturbed spacecraft relative translational motion. <b>2020</b> , 102, 2549-2561	1
156	Robust Geometric Control of a Helicopter using Sliding Mode Control. <b>2020</b> ,	1
155	Rigid-Body Pose Hybrid Control Using Dual Quaternions: Global Asymptotic Stabilization and Robustness. <b>2020</b> , 43, 1631-1641	5
154	Consensus on $SO(3)$ with piecewise-continuous sinusoids. <b>2020</b> , 122, 109262	2
153	A Robust Adaptive Nonlinear Control Design via Geometric Approach for a Quadrotor. <b>2020</b> , 1-11	
152	Small-Satellite Attitude Control Using Continuous But Only Piecewise-Continuously Differentiable Sinusoidal Controls. <b>2020</b> ,	2

151	Formation Control for Fixed-Wing UAVs Modeled with Extended Unicycle Dynamics that Include Attitude Kinematics on $SO(m)$ and Speed Constraints. <b>2020</b> ,	1
150	Global Trajectory Tracking for a Quadrotor through Event-Triggered Control: Synthesis, Simulations, and Experiments. <b>2020</b> ,	0
149	Simple Robust Fixed-Time Fault-Tolerant Attitude Control for a class of Rigid Spacecrafts. <b>2020</b> ,	
148	Robust Large-Angle Attitude Maneuver Strategy Design of UCAV. <b>2020</b> ,	0
147	A hybrid kinematic controller for resilient obstacle avoidance of autonomous ships. <b>2020</b> , 929, 012022	
146	Saturated output feedback control for finite-time attitude stabilization of spacecraft. <b>2020</b> , 234, 4557-4571	
145	Finite-time geometric control for underactuated aerial manipulators with unknown disturbances. <b>2020</b> , 30, 5040-5061	3
144	Saturated Attitude Control for Rigid Spacecraft Under Attitude Constraints. <b>2020</b> , 43, 790-805	4
143	Path Following for a Class of Underactuated Systems Using Global Parameterization. <b>2020</b> , 8, 34737-34749	2
142	Nonlinear observer design on $SL(3)$ for homography estimation by exploiting point and line correspondences with application to image stabilization. <b>2020</b> , 115, 108858	2
141	Continuous constrained attitude regulation of multiple spacecraft on $SO(3)$ . <b>2020</b> , 99, 105769	14
140	Robust global distributed attitude control for multiple rigid bodies using a hybrid controller. <b>2020</b> , 51, 1229-1242	
139	Robust Attitude Tracking for Aerobatic Helicopters: A Geometric Approach. <b>2021</b> , 29, 150-164	8
138	Global Distributed Attitude Tracking Control of Multiple Rigid Bodies via Quaternion-Based Hybrid Feedback. <b>2021</b> , 8, 367-378	0
137	Geometric robust adaptive control for satellite attitude tracking with reaction wheels. <b>2021</b> , 179, 238-252	1
136	Controller Class for Rigid Body Tracking on $SO(3)$ . <b>2021</b> , 66, 2234-2241	6
135	Distributed spacecraft attitude tracking and synchronization under directed graphs. <b>2021</b> , 109, 106432	6
134	Karst exploration: Unconstrained attitude dynamic control for an AUV. <b>2021</b> , 219, 108321	4

133	Stochastic stabilization of rigid body motion of a spacecraft on SE(3). <b>2021</b> , 94, 1166-1173	
132	Hybrid controller for global, robust, attitude stabilization of a magnetically actuated spacecraft. <b>2021</b> , 13, 543-554	0
131	Sampling-Based Motion Planning for Uncertain High-Dimensional Systems via Adaptive Control. <b>2021</b> , 159-175	1
130	. <b>2021</b> , 1-1	2
129	Formation Tracking of Nonholonomic Systems on the Special Euclidean Group under Fixed and Switching Topologies: An Affine Formation Strategy. <b>2021</b> , 59, 2850-2874	
128	On the Global Behavior of a Geometric PDAV Controller by Means of a Geometrically Exact Linearization. <b>2021</b> , 143,	0
127	Attitude Determination and Control System Design of Sub-Arcsecond Pointing Spacecraft. <b>2021</b> , 44, 295-314	1
126	Quaternion-based Hybrid Feedback for Global Asymptotic Attitude Stabilization on S <sup>3</sup> . <b>2021</b> ,	1
125	Global exponential stabilization of a quadrotor by hybrid control. <b>2021</b> , 43, 2345-2357	2
124	References. <b>2021</b> , 681-699	
123	Global Asymptotic Tracking for Marine Surface Vehicles using Hybrid Feedback in the Presence of Parametric Uncertainties. <b>2021</b> ,	1
122	Constrained rigid body attitude stabilization: an anti-windup approach. <b>2021</b> ,	1
121	Trajectory tracking of nonholonomic mobile robots by geometric control on special Euclidean group. <b>2021</b> , 31, 5680-5707	1
120	Super Twisting Algorithm for Robust Geometric Control of a Helicopter. <b>2021</b> , 102, 1	1
119	Nonlinear Model Predictive Control combined with Geometric Attitude and Speed Control for Fixed-Wing UAVs. <b>2021</b> ,	1
118	. <b>2021</b> , 57, 1919-1929	3
117	On the application of the Wałowski method to the problem of global stabilization. <i>Systems and Control Letters</i> , <b>2021</b> , 153, 104953	2.4 1
116	Event-triggered global trajectory tracking control of a quadrotor: Synthesis, simulations, and experiments. <b>2021</b> , 31, 6144-6165	0

115	Point stabilization and trajectory tracking of underactuated surface vessels: A geometric control approach. <b>2021</b> , 358, 7119-7141	3
114	Hybrid Global Finite-Time Dual-Quaternion Observer and Controller for Velocity-Free Spacecraft Pose Tracking. <b>2021</b> , 29, 2129-2141	2
113	Continuous leaderless synchronization control of multiple spacecraft on $SO(3)$ . <b>2021</b> , 5, 279-291	2
112	Global exponential attitude tracking for spacecraft with gyro bias estimation. <b>2021</b> , 116, 46-57	1
111	Global finite-time distributed attitude synchronization and tracking control of multiple rigid bodies without velocity measurements. <b>2021</b> , 132, 109796	1
110	Finite-time stable estimator for attitude motion in the presence of bias in angular velocity measurements. <b>2021</b> , 132, 109815	4
109	Constructive observer design for Visual Simultaneous Localisation and Mapping. <b>2021</b> , 132, 109803	3
108	Constrained Rigid Body Attitude Stabilization: An Anti-Windup Approach. <b>2021</b> , 5, 1663-1668	0
107	Adaptive RISE control for asymptotic rigid-body attitude tracking with additive disturbances. <b>2021</b> , 117, 54-69	3
106	Attitude Control of Rigid Bodies: An Energy-Optimal Geometric Switching Control Approach. <b>2021</b> , 1-1	3
105	Hybrid Feedback for Global Tracking on Matrix Lie Groups $SO(3)$ and $SE(3)$ . <b>2021</b> , 1-1	0
104	Hybrid Control of Fixed-Wing UAVs for Large-Angle Attitude Maneuvers on the Two-Sphere. <b>2020</b> , 53, 5717-5724	2
103	Extension of a PID control theory to Lie groups applied to synchronising satellites and drones. <b>2020</b> , 14, 2628-2642	3
102	Robust synchronization of heterogeneous robot swarms on the sphere. <b>2020</b> ,	2
101	A Robust Estimator for Almost Global Attitude Feedback Tracking. <b>2010</b> ,	1
100	Design of Locally Semiconcave Practical Control Lyapunov Function via Multilayer Minimum Projection Method. <b>2015</b> , 51, 803-813	1
99	Sliding on Manifolds: Geometric Attitude Control with Quaternions. <b>2021</b> ,	1
98	Background and Preliminaries. <b>2013</b> , 11-26	

- 97 Attitude Stabilization of Rigid Body by Using Minimum Projection Method. **2014**, 50, 811-820 0
- 96 A Comparison of Nonlinear PI and PID Inertia-Free Spacecraft Attitude Control Laws. **2015**, 517-541 2
- 95 Spherical formation of regular tetrahedra. **2017**,
- 94 eXogenous Kalman Filter (XKF) for Visualization and Motion Prediction of Ships using Live Automatic Identification System (AIS) Data. **2018**, 39, 233-244 3
- 93 Asymptotic and finite-time almost global attitude tracking: representations free approach. **2018**, 1
- 92 Attitude Tracking Control of a Quadrotor UAV Based on the Contracting Angular Velocity Observer. **2018**,
- 91 Design of unmanned airplane scheme (UAS) energy system. 397, 012090
- 90 Incremental Reference Generation for Nonsingular Control on  $\$SE(3)\$$ . **2018**,
- 89 Constrained Control in Three Dimensions via Explicit Reference Governor. **2019**, 55, 762-771
- 88 Decentralised event-based synchronisation and control of spacecraft. **2019**, 13, 2694-2701 1
- 87 Geometric Spectral Algorithms for the Simulation of Rigid Bodies. **2019**, 14,
- 86 Almost global attitude stabilisation of a 3-D pendulum by means of two control torques. **2020**, 53, 6346-6351 1
- 85 Filtered Output Feedback Tracking Control of a Quadrotor UAV. **2020**, 53, 5764-5770 2
- 84 Temporally Coupled Dynamical Movement Primitives in Cartesian Space. **2020**, 53, 9219-9226
- 83 Application of Monte Carlo Model Predictive Control to Control Systems with Discontinuous Changes. **2020**, 56, 116-123
- 82 Symbolic Computation of Dynamics on Smooth Manifolds. **2020**, 336-351
- 81 Formation control for agents modeled with extended unicycle dynamics that includes orientation kinematics on  $SO(m)$  and speed constraints. *Systems and Control Letters*, **2020**, 146, 104784 2.4 2
- 80 A kinematic hybrid feedback controller on the unit circle suitable for orientation control of ships. **2020**, 2

79	Global Attitude Control via Contraction on Manifolds with Reference Trajectory and Optimization. <b>2020,</b>	0
78	Hysteretic Control Lyapunov Functions with Application to Global Asymptotic Tracking for Underwater Vehicles. <b>2020,</b>	1
77	Exponential Set-Point Stabilization of Underactuated Vehicles Moving in Three-Dimensional Space. <b>2022, 9, 270-282</b>	1
76	Spacecraft Attitude and Angular Rate Tracking using Reaction Wheels and Magnetorquers. <b>2020, 53, 14819-14826</b>	1
75	Reduced-Attitude Control of Fixed-Wing Unmanned Aerial Vehicles Using Geometric Methods on the Two-Sphere. <b>2020, 53, 5749-5756</b>	1
74	Adaptive Cooperative Manipulation with Rolling Contacts. <b>2020,</b>	0
73	Finite-time rotation-matrix-based tracking control for autonomous underwater vehicle with input saturation and actuator faults.	6
72	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. <b>2021, 21,</b>	1
71	Path Invariant Controllers for a Quadrotor With a Cable-Suspended Payload Using a Global Parameterization. <b>2021, 1-16</b>	
70	Quaternion-Based Attitude Synchronization With an Event-Based Communication Strategy. <b>2021, 1-14</b>	2
69	Globally-Attractive Logarithmic Geometric Control of a Quadrotor for Aggressive Trajectory Tracking. <b>2022, 1-1</b>	0
68	Constrained Control for Systems on Lie Groups with Uncertainties via Tube-Based Model Predictive Control on Euclidean Spaces. <b>2022, 156-173</b>	0
67	Almost global attitude stabilisation of an underactuated axially symmetric 3-D pendulum. <b>2022, 137, 110110</b>	
66	Quasi Input-to-State Stability of a Quaternion-based Attitude Control System with an Augmented Dynamical System. <b>2020,</b>	0
65	Quadrotor Attitude Control Using Special Orthogonal Matrix. <b>2020,</b>	0
64	Exponential stability of an attitude trajectory tracking controller utilizing unit quaternions. <b>2021,</b>	0
63	Continuous quaternion based almost global attitude tracking. <b>2021,</b>	0
62	Exponential stability of trajectory tracking control in the orientation space utilizing unit quaternions. <b>2021,</b>	0

61	Control and maintenance of fully-constrained and underconstrained rigid body motion on Lie groups and their tangent bundles. <b>2022,</b>	0
60	Global finite-time set stabilization of spacecraft attitude with disturbances using second-order sliding mode control. <b>2022,</b> 108, 1305	0
59	Finite-time Prescribed Performance Control for Space Circumnavigation Mission with Input Constraints and Measurement Uncertainties. <b>2022,</b> 1-1	3
58	Robust Geometric Trajectory Tracking Control of a Variable-Pitch Quadrotor. 1-19	0
57	Global Asymptotic Tracking for Marine Vehicles using Adaptive Hybrid Feedback. <b>2022,</b> 1-1	0
56	Unscented Kalman filter and control on $\mathbb{S}^3$ with application to spacecraft dynamics. 1	0
55	Globally Stable Attitude Control and Quasi-Static Disturbance Estimation in the Presence of Aerodynamic Dissipation. <b>2022,</b> 7, 5039-5046	0
54	Trajectory tracking control for autonomous underwater vehicle based on rotation matrix attitude representation. <b>2022,</b> 252, 111206	0
53	Hybrid Attitude Controller Design for a Rigid Spacecraft with Angular Velocity Constraint. <b>2021,</b>	
52	An Attitude Control Design of Quadrotors Based on Gauss Error Function with $SO(3)$ as Attitude Representation. <b>2021,</b>	
51	Global trajectory tracking for quadrotors: An MRP-based hybrid backstepping strategy. <b>2021,</b>	0
50	A Novel Quaternion-based Nonlinear Dynamic Inversion for Rigid Body Control. <b>2021,</b>	
49	Distributed fixed-time orientation synchronization with application to formation control. <b>2021,</b>	
48	Quaternion-based attitude stabilization via discrete-time IDA-PBC. <b>2022,</b> 1-1	0
47	Quaternion-based finite-time fault-tolerant trajectory tracking control for autonomous underwater vehicle without unwinding.. <b>2022,</b>	0
46	Exponential attitude tracking and disturbance rejection of rigid body systems.	1
45	Adaptive actor-critic learning-based robust appointed-time attitude tracking control for uncertain rigid spacecrafts with performance and input constraints. <b>2022,</b>	0
44	Control Primitives. <b>2022,</b> 31-39	

43	Terminal Sliding-mode Control for Input-constrained Free-float Space Manipulator via Learning-based Adaptive Uncertainty Rejection. <b>2022,</b>			0
42	Constrained attitude tracking control and active sloshing suppression for liquid-filled spacecraft. <b>2022,</b>			0
41	On Modeling and Control of a Holonomic Tricopter. <b>2022,</b> 105,			
40	L1Adaptive Augmentation for Geometric Tracking Control of Quadrotors. <b>2022,</b>			1
39	Convex Model Predictive Control of Single Rigid Body Model on SO(3) for Versatile Dynamic Legged Motions. <b>2022,</b>			0
38	Investigating the Effect of Event-triggered Control and Nonlinear Actuator Dynamics on Spacecraft Attitude Stabilization. <b>2022,</b>			
37	On Wilson's theorem about domains of attraction and tubular neighborhoods. <i>Systems and Control Letters</i> , <b>2022,</b> 167, 105322	2.4		1
36	A Rigid Body Observer (BObs) Considering Pfaffian Constraints With a Pose Regulation Framework. <b>2023,</b> 7, 163-168			
35	Global Asymptotic Position and Heading Tracking for Multirotors Using Tuning Function-Based Adaptive Hybrid Feedback. <b>2023,</b> 7, 295-300			
34	Homogeneous Finite-time Tracking Control on Lie Algebra so(3). <b>2022,</b>			
33	Distributed attitude tracking control of multiple rigid bodies with global exponential stability on SO(3).			
32	Distributed Attitude Tracking and Synchronization on SO(3) Under Directed Graphs. <b>2023,</b> 101-127			0
31	Continuous Constrained Attitude Regulation on SO(3). <b>2023,</b> 129-153			0
30	A new geometric trajectory tracking controller for the unicycle mobile robot. <b>2022,</b> 168, 105360			0
29	Kinematic screws and dual quaternion based motion controllers. <b>2022,</b> 128, 105325			1
28	KDF: Kinodynamic Motion Planning via Geometric Sampling-Based Algorithms and Funnel Control. <b>2022,</b> 1-20			2
27	Small-Satellite Attitude Control Using Continuous Sinusoids With Strict Amplitude Constraints. <b>2022,</b> 1-15			0
26	A Class of Hybrid Geometric Controllers for Robust Global Asymptotic Stabilization on S1. <b>2022,</b>			0

- 25 Direction-only Orientation Alignment of Leader-Follower Networks. **2022**, ○
- 24 Aportaciones al control de vehículos aéreos no tripulados en México. **2022**, 19, 430-441 ○
- 23 Globally stable proportional-integral-derivative control for spacecraft pose tracking via dual quaternions. ○
- 22 Continuous Leaderless Synchronization Control of Multiple Rigid Spacecraft on  $SO(3)$ . **2023**, 157-176 ○
- 21 Geometric Integral Attitude Control on  $SO(3)$ . **2022**, 11, 2821 ○
- 20 H $\infty$  inverse optimal attitude tracking on the special orthogonal group  $SO(3)$ . 1-13 ○
- 19 Fixed-time fault-tolerance attitude tracking control for spacecraft without unwinding. ○
- 18 Quaternion feedback attitude control system design based on weighted  $H_2$  gain performance. **2022**, 100717 ○
- 17 PAGAL: Pseudo Attitude error Generation ALgorithm for attitude stabilization from arbitrary initial states\*. **2022**, ○
- 16 Second-order sliding-mode on  $SO(3)$  and fault-tolerant spacecraft attitude control. **2023**, 149, 110814 ○
- 15 Geometrization of Linearization-based Control Laws on the Unit Circle. **2022**, ○
- 14 A Generalization of Synergistic Hybrid Feedback Control with Application to Maneuvering Control of Ships. **2022**, ○
- 13 Constrained control for systems on matrix Lie groups with uncertainties. ○
- 12 Relative Spacecraft Position and Attitude in the Circular Restricted Three-Body Problem: TSE(3) vs. Dual Quaternions. **2023**, ○
- 11 Attitude control via a feedback integrator based observer. **2023**, 151, 110882 ○
- 10 Mean square bounded attitude coordination control of spacecraft formation with stochastic uncertainties. **2023**, 360, 3001-3033 ○
- 9 Improved dynamic event-triggered anti-unwinding control for autonomous underwater vehicles. **2023**, 272, 113619 ○
- 8 Uniting Attitude Estimation With Global Asymptotic Stability. **2023**, 72, 1-10 ○

- 7 Constructive Equivariant Observer Design for Inertial Velocity-Aided Attitude. **2023**, 56, 349-354 ○
- 6 Synergistic PID and Output Feedback Control on Matrix Lie Groups. **2023**, 56, 120-125 ○
- 5 Satellite Attitude Control Using Double-Gimbal Variable-Speed Control Moment Gyroscope: Single-Loop Control Formulation. 1-17 ○
- 4 Robust Global stabilization of aerial continuum manipulation systems via hybrid feedback. **2023**, ○
- 3 Finite Time Control on Unit Sphere with an Application to Trajectory Tracking Control of UAVs. **2022**, ○
- 2 A Hölder-continuous Extended State Observer for Rigid Body Attitude Dynamics. **2022**, 55, 340-345 ○
- 1 Topological Obstructions. **2023**, 77-107 ○