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#	Paper	IF	Citations
582	Using hybrid simulation for a quadruped standing leap.		
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580	The Use of Kane's Dynamical Equations in Robotics. 1983 , 2, 3-21		221
579	An approach to nonlinear feedback control with applications to robotics. 1983,		16
578	Development of the generalized d'Alembert equations of motion for mechanical manipulators. 1983,		33
577	Recursive Lagrangian Dynamics of Flexible Manipulator Arms via Transformation Matrices. 1983 , 16, 5-17		1
576	RECURSIVE LAGRANGIAN DYNAMICS OF FLEXIBLE MANIPULATOR ARMS VIA TRANSFORMATION MATRICES. 1983 , 5-17		5
575	A method for computer-aided construction of analytical models of robotic manipulators.		5
574	An inverse kinematic solution for kinematically redundant robot manipulators. 1984 , 1, 235-249		44
573	Alternative methods for the analysis of robot arm dynamics. 1984 , 1, 351-378		4
572	Robot modelling Ehe tools needed for optimal design and utilization. 1984, 16, 335-337		2
571	Motion control of industrial robots with closed loop trajectories.		1
57°	Recursive Lagrangian Dynamics of Flexible Manipulator Arms. 1984 , 3, 87-101		475
569			21
568	Dynamic Analysis and Computer-Aided Design of Robot Manipulators. 1984 , 17, 557-562		
567	An adaptive control strategy for robotic manipulators. 1985 , 8, 251-260		1
566	Robust robot control with bounded input torques. 1985 , 2, 329-352		30

565	Computational robot dynamics: Foundations and applications. 1985 , 2, 425-452	35
564	Computer-assisted generation of robot dynamic models in an analytical form. 1985 , 3, 49-70	11
563	A unified approach to manipulator modeling.	1
562	The dynamics and control of robotic manipulators. 1985 , 8, 201-211	2
561	Minimum time robot path planning in the presence of obstacles. 1985,	17
560	Parallelism in manipulator dynamics.	3
559	A systolic/cellular computer architecture for linear algebraic operations.	4
558	Pipeline/Parallel algorithms for the jacobian and inverse dynamics computations.	10
557	Robustness issues in robot control.	7
556	Distance functions and their application to robot path planning in the presence of obstacles. 1985 , 1, 21-30	230
555	Computation of input generalized forces for robots with closed kinematic chain mechanisms. 1985 , 1, 95-103	113
554	Recursive computations of kinematic and dynamic equations for mechanical manipulators. 1985 , 1, 124-131	38
553	The Robust Control of Robot Manipulators. 1985 , 4, 49-64	329
552	Recursive evaluation of linearized dynamic robot models. 1986 , 2, 146-155	20
551	References. 1986 , 247-261	1
550	A model for constrained motion of a serial link manipulator.	12
549	•	7
548	The optimal design of robot drive system-gear ratios and actuator impedances.	О

547	Manipulator dynamics using the extended zero reference position description. 1986, 2, 221-224	14
546	A Comparison of Controller Design and Simulation for an Industrial Manipulator. 1986 , IE-33, 59-65	9
545		178
544	On the Automatic Generation of The Equations of Motion for Robots with Elastically Deformable ARMS. 1986 , 19, 143-147	6
543	A Very Efficient Algorithm for the Simulation of Robots and Similar Multibody Systems without Inversion of the Mass Matrix. 1986 , 19, 95-100	49
542	Computer generation of robot dynamics equations and the related issues. 1986 , 3, 301-319	23
541	Dynamic computer simulation of multiple closed-chain robotic mechanisms.	
540	Computer-Assisted Generation of Dynamical Equations for Multibody Systems. 1986 , 5, 129-141	14
539	Numerical solution of robot arm inverse kinematics and dynamics. 1986 , 1, 21-31	2
538		2
537	A Perturbation Approach to Robot Calibration. 1987 , 6, 47-59	13
536	Dynamic Simulation of Legged Machines Using a Compliant Joint Model. 1987 , 6, 33-46	12
535	Coupling Effects of Kinematics and Flexibility in Manipulators. 1987, 6, 75-84	74
534	Development of the generalized Newton equations and a structural matrix for robot manipulators.	
533	A Recursive Formulation for Constrained Mechanical System Dynamics: Part I. Open Loop Systems. 1987 , 15, 359-382	223
532	An Approach to Parallel Processing of Dynamic Robot Models. 1987 , 20, 337-343	
531	A systolic architecture for computation of the manipulator inertia matrix.	12
530	Triangularization of equations of motion for robotic systems. 1987,	

(1988-1987)

529	Application of a General Learning Algorithm to the Control of Robotic Manipulators. 1987, 6, 84-98	239
528	Efficient parallel algorithms for robot forward dynamics computation.	4
527	Using Dynamic Analysis for Realistic Animation of Articulated Bodies. 1987 , 7, 12-27	69
526	Dynamics of pantograph type manipulators.	2
525		6
524	Dynamic simulation of a kinematically redundant manipulator system. 1987 , 4, 5-23	26
523	Customized computational robot dynamics. 1987 , 4, 503-526	19
522	Symbolically efficient formulations for computational robot dynamics. 1987 , 4, 743-769	18
521	Kalman filtering, smoothing, and recursive robot arm forward and inverse dynamics. 1987, 3, 624-639	112
520	The Complete Dynamic Model and Customized Algorithms of the Puma Robot. 1987 , 17, 635-644	21
519	. 1988 , 18, 939-951	8
518	. 1988 , 18, 238-251	43
517	. 1988 , 18, 105-114	13
516	. 1988 , 18, 115-125	12
515	. 1988 , 4, 498-507	5
514	. 1988 , 4, 163-173	63
513	. 1988 , 4, 665-676	25
512	An algorithm for the analysis of mechanical characteristics of industrial manipulators. 1988 , 24, 425-430	

511	Representation of Joints in Multibody Systems. 1988 , 68, 111-119	5
510	Experiments with the use of a rule-based self-organising controller for robotics applications. 1988 , 26, 195-214	92
509	A numerical method for simulating the dynamics of human walking. 1988 , 21, 1043-51	65
508	Algorithm to generate geodetic coordinates from earth-fixed coordinates. 1988 , 11, 281-283	7
507	Development of CAD system for robotic manipulator.	O
506		2
505	Dynamic Simulation of n-Axis Serial Robotic Manipulators Using a Natural Orthogonal Complement. 1988 , 7, 32-47	45
504	Triangularization of equations of motion for robotic systems. 1988 , 11, 278-281	6
503	Stability Analysis of Position-Force Control Using Linearized Cartesian Space Model. 1988 , 21, 249-254	1
502	Real-Time Dynamics Simulation 🖪 Design Optimization Tool. 1988 ,	O
501		4
500		8
499		
498	. 1989 , 5, 583-599	20
497	•	5
496		
495	. 1989 , 19, 1313-1321	14
494	Topology-conserving maps for learning visuo-motor-coordination. 1989 , 2, 159-168	211

(1990-1989)

493	An algorithm for the inverse dynamics of n-axis general manipulators using Kane's equations. 1989 , 17, 1545-1561	23
492	Simulation systems for the design of robot mechanisms. 1989 , 4, 399-410	
491	. 1989 , 5, 600-615	21
490	Quantitation of human shoulder anatomy for prosthetic arm controlII. Anatomy matrices. 1989 , 22, 309-25	72
489	. 1989 , 5, 294-302	180
488	. 1989 , 5, 522-528	52
487	. 1989 , 5, 510-521	22
486		О
485	Simulation and Control of Space Manipulators Bearing Complex Payloads. 1989, 22, 127-132	2
484	Reusable motion synthesis using state-space controllers. 1990 , 24, 225-234	25
483	A Predictive-based Method for Modelling and Control of Robot Arm. 1990 , 23, 211-216	
482	. 1990 , 20, 1081-1093	3
481	An efficient algorithm for computation of manipulator inertia matrix. 1990 , 7, 57-80	12
480	An algorithm for efficient computation of dynamics of robotic manipulators. 1990 , 7, 689-702	6
479	Multibody Dynamics Formulations Using Maggi's Approach. 1990 , 101-144	1
478	Mechanics And Control Of Large Flexible Structures. 1990 ,	21
477	. 1990 , 6, 10-19	35
476	. 1990,	1

475	Modeling and simulation of robot dynamics using transputer-based architectures. 1990 , 54, 269-278	3
474	An Adaptive-Predictive Method for Modelling of Robot Arm.	
473		
472	. 1990,	6
471		
470	. 1990,	5
469		
468		7
467		
466	. 1990 , 6, 1-9	182
466 465	. 1990 , 6, 1-9 . 1990 ,	182 O
465	. 1990, Modeling Musculoskeletal Movement Systems: Joint and Body Segmental Dynamics,	0
465 464	. 1990, Modeling Musculoskeletal Movement Systems: Joint and Body Segmental Dynamics, Musculoskeletal Actuation, and Neuromuscular Control. 1990, 121-148	o 56
465 464 463	. 1990, Modeling Musculoskeletal Movement Systems: Joint and Body Segmental Dynamics, Musculoskeletal Actuation, and Neuromuscular Control. 1990, 121-148 . 1991, 7, 743-749	o 56
465 464 463 462	. 1990, Modeling Musculoskeletal Movement Systems: Joint and Body Segmental Dynamics, Musculoskeletal Actuation, and Neuromuscular Control. 1990, 121-148 . 1991, 7, 743-749	o 56 6
465 464 463 462 461	. 1990, Modeling Musculoskeletal Movement Systems: Joint and Body Segmental Dynamics, Musculoskeletal Actuation, and Neuromuscular Control. 1990, 121-148 . 1991, 7, 743-749 .	o 56 6

457		11
456		2
455	Alternate Formulations for the Manipulator Inertia Matrix. 1991 , 10, 64-74	32
454		4
453	•	1
452	Simulation of Robots with Flexible Links. 1991 , 24, 327-332	
451	Efficient robot dynamics for high sampling rate motions: case studies and benchmarks. 1991 , 54, 793-814	7
450	On-line Simulation of Robot Manipulators.	
449	A new composite body method for manipulator dynamics. 1991 , 8, 197-219	6
448	. 1991 , 21, 983-999	8
448	. 1991 , 21, 983-999 Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991 , 40, 939-945	8
	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody	
447	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991 , 40, 939-945 Efficient Dynamic Simulation of a Quadruped Using a Decoupled Tree-Structure Approach. 1991 ,	11
447 446	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991 , 40, 939-945 Efficient Dynamic Simulation of a Quadruped Using a Decoupled Tree-Structure Approach. 1991 , 10, 619-627 The real-time application of Variable Structure System (VSS) controllers: an experimental	11 34
447 446 445	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991, 40, 939-945 Efficient Dynamic Simulation of a Quadruped Using a Decoupled Tree-Structure Approach. 1991, 10, 619-627 The real-time application of Variable Structure System (VSS) controllers: an experimental comparative study on a simple robot arm. 1991, 13, 201-210	11 34 4
447 446 445	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991, 40, 939-945 Efficient Dynamic Simulation of a Quadruped Using a Decoupled Tree-Structure Approach. 1991, 10, 619-627 The real-time application of Variable Structure System (VSS) controllers: an experimental comparative study on a simple robot arm. 1991, 13, 201-210 Unified formulation of dynamics for serial rigid multibody systems. 1991, 14, 531-542	11 34 4 131
447 446 445 444 443	Finite-element based recursive formulation for real time dynamic simulation of flexible multibody systems. 1991, 40, 939-945 Efficient Dynamic Simulation of a Quadruped Using a Decoupled Tree-Structure Approach. 1991, 10, 619-627 The real-time application of Variable Structure System (VSS) controllers: an experimental comparative study on a simple robot arm. 1991, 13, 201-210 Unified formulation of dynamics for serial rigid multibody systems. 1991, 14, 531-542 Parallel Algorithms for Computation of the Manipulator Inertia Matrix. 1991, 10, 162-170 Real-Time Multibody System Dynamic Simulation: Part I. A Modified Recursive Formulation and	11 34 4 131 3

439	Minimizing spacecraft attitude disturbances in space manipulator systems. 1992 , 15, 1010-1017	52
438		
437		
436		
435	Symbolic and numerical investigation of manipulator performance limiting factors.	
434	Recursive flexible multibody system dynamics using spatial operators. 1992 , 15, 1453-1466	53
433	Dynamics of an elastic multibody chain: Part CRecursive dynamics. 1992 , 7, 61-89	29
432		2
431	Efficient Dynamic Simulation of an Integrated Robot/Forge Near Net-Shape Processing Center. 1992 , 25, 347-351	
430		
429	•	1
428	. 1992 , 8, 65-76	42
427	. 1992 , 8, 597-606	6
426	An order n formulation for the motion simulation of general multi-rigid-body constrained systems. 1992 , 43, 565-579	41
425	A systematic method of dynamics for flexible robot manipulators. 1992 , 9, 861-891	10
424	Fast inverse dynamics computation in real-time robot control. <i>Mechanism and Machine Theory</i> , 1992 , 27, 741-750	10
423	. 1992 , 22, 384-391	7
422	Highly efficient transputer arrays for the computation of robot dynamics. 1992 , 4, 185-205	2

(1993-1993)

421	An order n formulation for the motion simulation of general multi-rigid-body tree systems. 1993 , 46, 547-559	23
420	A path algorithm for robotic machining. 1993 , 10, 185-198	16
419	. 1993 , 23, 77-95	26
418	. 1993 , 23, 239-248	13
417	. 1993 , 23, 1384-1391	12
416	Development of efficient closed-form dynamic equations for robot manipulators using parallel and perpendicular concepts. <i>Mechanism and Machine Theory</i> , 1993 , 28, 233-248	3
415	An efficient method for inverse dynamics of manipulators based on the virtual work principle. 1993 , 10, 605-627	95
414	Network model approach to the analysis of multirigid-body systems. 1993 , 3, 107-125	6
413	A dynamic model of a flexible stewart platform. 1993 , 48, 367-374	42
412	Identification and decentralized adaptive control using dynamical neural networks with application to robotic manipulators. 1993 , 4, 919-30	81
411	A simple and highly parallelizable method for real-time dynamic simulation based on velocity transformations. 1993 , 107, 313-339	31
410	A fast algorithm for parallel computation of multibody dynamics on MIMD parallel architectures. 1993 ,	5
409	The Effect of Friction on the Forward Dynamics Problem. 1993 , 12, 164-179	35
408		
407	. 1993 , 9, 323-333	28
406	. 1993 , 9, 571-580	29
405	•	1
404	Dynamics analysis of a robotic manipulator considering driving elements. 1993 , 8, 61-72	1

403	Recursive dynamics algorithm for multibody systems with prescribed motion. 1993 , 16, 830-837	5
402	A Parallel Algorithm For Dynamics Simulation Of Multibody Chains-implementation On A Transputer System.	
401	Coordination of Motion in a Spacecraft/ Manipulator System. 1993 , 12, 366-379	25
400	Modelling and Control of Flexible Steward Platform. 1993 , 26, 441-444	
399	•	
398	Computational requirements for a discrete Kalman filter in robot dynamics algorithms. 1993 , 11, 27-36	6
397		
396	SYMBOLIC COMPUTATION OF ROBOT DYNAMIC PARAMETERS. 1994 , 25, 697-727	
395	Fast Algorithms for Near-Minimum-Time Control of Robot Manipulators: Communication. 1994 , 13, 521-532	10
394	Fast parallel Preconditioned Conjugate Gradient algorithms for robot manipulator dynamics simulation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1994 , 9, 73-99	1
393	Real-time computational aspects of multiple manipulator systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1994 , 9, 101-120	3
392	Evaluation of loop constraints for kinematic and dynamic modeling of general closed-chain robotic systems. 1994 , 8, 115	3
391	An efficient recursive approach for computer generation of manipulator dynamic model. 1994 , 20, 89-96	0
390	Kinematic identification of multi-jointed payloads. 1994 , 12, 3-14	
389	An object-oriented approach for an effective formulation of multibody dynamics. 1994 , 115, 287-314	41
388	Dynamics modeling of robotic manipulators using an artificial neural network. 1994 , 11, 41-56	8
387	Improved Formulations for Real-Time Dynamics. <i>Mechanical Engineering Series</i> , 1994 , 271-324 0.3	
386	Kinematic and Dynamic Simulation of Rigid and Flexible Systems with Fully Cartesian Coordinates. 1994 , 285-323	3

385 .

384		6
383	A unified approach to mathematical modelling of robotic manipulator dynamics. 1994 , 12, 411-420	2
382	A system for generating the symbolic models of robots. 1994 , 27, 527-534	
381	Low Cost Mechatronic Design Tools Applied to Robotic Manipulators. 1995 , 28, 409-419	
380	. 1995 , 25, 1194-1206	103
379	A recurrent neural network-based adaptive variable structure model-following control of robotic manipulators. 1995 , 31, 1495-1507	47
378	An approach to validation of a leg simulation by the comparison of two dynamic models. 1995 , 25, 309-19	2
377	Object-oriented programming techniques in vehicle dynamics simulation. 1995 , 39, 549-558	0
376	Developing algorithms for efficient simulation of flexible space manipulator operations. 1995 , 36, 297-312	2
375	A numeric-symbolic approach for kinematics and dynamics of robotic manipulators. <i>Mechanism and Machine Theory</i> , 1995 , 30, 645-652	2
374	On the velocity and acceleration snalyses of general parallel robotic manipulators. 1995 , 12, 237-248	2
373	Reducing flexible base vibrations through local redundancy resolution. 1995 , 12, 767-779	14
372	Dynamic simulation of robot manipulators using graphical programming packages.	Ο
371	Standard and diagonalized Lagrangian dynamics: a comparison.	3
370	ON THE AUTOMATIC GENERATION OF EFFICIENT COMPUTATIONAL MODELS. 1995 , 26, 59-78	1
369	An error-learning neural network for the tuning of robot dynamic models. 1995 , 26, 13-31	2
368	Genetic algorithms for robot control.	1

367	An Efficient Implementation of the Velocity Transformation Method for Real-Time Dynamics with Illustrative Examples. 1995 , 15-35		3
366	Modular-hierarchisch strukturierte Modellbildung mechanischer Systeme. 1995 , 65, 227-245		3
365	Symbolic factorization of inertia matrix for space robot simulation.		
364			3
363	A generalized formulation for simulation of space robot constrained motion.		2
362	. 1995 , 15, 6-16		4
361	The UDU/sup T/ decomposition of manipulator inertia matrix.		2
360	Three dimensional digital simulation and autonomous walking control for eight-axis biped robot.		21
359	. 1995 , 11, 606-611		24
358	. 1995 , 11, 389-400		67
357	Modelling and identification. 1996 , 3-58		2
356	Parallel processing for real-time simulation: a case study. 1996 , 4, 49-62		14
355	Accurate Robot Motion-Time Model of Start/Stop Point-to-Point Operations. 1996, 118, 531-538		
354	Inverse Dynamics Algorithm for Space Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1996 , 118, 625-629	1.6	1
353	Newton-Euler Based Approach of Simulation of Flexible Manipulators. 1996 , 29, 121-126		1
352	An efficient algorithm for generating manipulator inertia matrix using the minimum set of dynamics parameters. 1996 , 13, 261-273		2
351	A robotics toolbox for MATLAB. 1996 , 3, 24-32		459
350	Modeling of multibody systems with the object-oriented modeling language Dymola. <i>Nonlinear Dynamics</i> , 1996 , 9, 91-112	5	37

349	Sparse-matrix generation of Jacobians for the object-oriented modeling of multibody systems. <i>Nonlinear Dynamics</i> , 1996 , 9, 185-204	5	3
348	An original O(N) formulation for simulation of robotic systems. 1996 , 41, 517-524		
347	Dynamic simulation and neural network compliance control of an intelligent forging center. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1996 , 17, 81-99	2.9	26
346	Parallel computation of the inertia matrix of a tree type robot using one directional recursion of Newton-Euler formulation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1996 , 15, 33-39	2.9	1
345	Robust sliding-mode control applied to a 5-link biped robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1996 , 15, 67-133	2.9	93
344	Artificial neural network based robot control: An overview. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1996 , 15, 333-365	2.9	19
343	Systematic dynamic modelling of mechanical systems containing kinematic loops. 1996 , 2, 212-235		1
342	Optimal Control of an n-Legged Robot. 1996 , 210, 51-63		3
341	Simulation of flexible manipulators using Newton-Euler inverse dynamic model.		1
340	Forward Dynamics, Elimination Methods, and Formulation Stiffness in Robot Simulation. 1997 , 16, 749	-758	26
339	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997 , 211, 119-133	-758	26
	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997 ,	-758	
339	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997 , 211, 119-133	-758	3
339	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997 , 211, 119-133 Calculation of the direct dynamic model of walking robots: comparison between two methods.	-758	3
339 338 337	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997, 211, 119-133 Calculation of the direct dynamic model of walking robots: comparison between two methods. Smart sensor networks for robotic sensor skins. 1997, 17, 232-239	-758	3 9 2
339 338 337 336	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997, 211, 119-133 Calculation of the direct dynamic model of walking robots: comparison between two methods. Smart sensor networks for robotic sensor skins. 1997, 17, 232-239 A decomposition of the manipulator inertia matrix. 1997, 13, 301-304	-758	3 9 2
339 338 337 336	Dynamic modelling of planar flexible manipulators: Computational and algorithmic efficiency. 1997, 211, 119-133 Calculation of the direct dynamic model of walking robots: comparison between two methods. Smart sensor networks for robotic sensor skins. 1997, 17, 232-239 A decomposition of the manipulator inertia matrix. 1997, 13, 301-304 A parallel algorithm for the forward dynamics of planar flexible manipulators.	-758	3 9 2 44

331	Biped robot walking using gravity-compensated inverted pendulum mode and computed torque control.		103
330	A Generic Numerical Method for Mechanical System Kinematics and Dynamics Modeling. 1998 , 212-24	1	4
329	Computational Methods in Mechanical Systems. 1998,		12
328	Robot actuation with low-pressure air-powered motors. 1998 , 13, 59-74		
327	Real-time dynamic simulation of quadruped using modified velocity transformation.		2
326	Computer Aided Dynamic Analysis and Simulation of Multibody Mechanical Systems in AutoCAD. 1998 , 71, 328-335		3
325	Kinematic coordination of reach and balance. 1998 , 30, 217-33		4
324	Dynamic Analysis of Geared Robotic Mechanisms Using Graph Theory. 1998 , 120, 240-244		14
323	New robot control algorithms in terms of quasi-velocities. 1998,		Ο
322	Forward dynamics of multilegged vehicles using the composite rigid body method.		7
321	Dynamics computation of structure-varying kinematic chains for motion synthesis of humanoid.		11
320	Dynamics of Serial Multibody Systems Using the Decoupled Natural Orthogonal Complement Matrices. 1999 , 66, 986-996		63
319	Solution of the Robot Forward Dynamics Problem by Using a Recursive Procedure Based on the General System Logical Theory. 1999 , 18, 1030-1043		
318	Analytical Expression for the Inverted Inertia Matrix of Serial Robots. 1999 , 18, 116-124		6
317	Dynamics computation of closed kinematic chains for motion synthesis of human figures.		1
316	Dynamic Modeling of Geared Robotic Mechanisms (The Virtual Link Approach. <i>Mechanism and Machine Theory</i> , 1999 , 34, 105-121	4	2
315	A hybrid parallelizable low-order algorithm for dynamics of multi-rigid-body systems: Part I, chain systems. 1999 , 30, 193-215		27
314	Efficient formulations for the manipulator inertia matrix in terms of minimal linear combinations of inertia parameters. 1999 , 16, 679-695		2

313	Real-time simulation of a free-flying robotic vehicle. 1999 ,	3
312	A technique for analyzing constrained rigid-body systems, and its application to the constraint force algorithm. 1999 , 15, 1140-1144	21
311	Fast iterative refinement of articulated solid dynamics. 1999 , 5, 268-276	8
310	Unconditionally energy stable implicit time integration: application to multibody system analysis and design. 2000 , 48, 791-822	16
309	Dynamic analysis of geared robotic mechanisms by the concept of torque transmission. <i>Mechanism and Machine Theory</i> , 2000 , 35, 629-643	1
308	The centralized formulation for complete dynamic modelling of robots. 2000 , 17, 119-126	
307	Dynamic Simulation of Rigid Bodies: Modelling of Frictional Contact. 2000 , 61-144	31
306	The addendum for the generalized d'Alembert equations of motion. 2000 , 21, 73-78	
305	Highly Parallelizable Low-Order Dynamics Simulation Algorithm for Multi-Rigid-Body Systems. 2000 , 23, 355-364	43
304	Forward dynamics algorithms for multibody chains and contact.	6
303	The reaction stabilization of on-orbit robots. 2000 , 20, 19-33	57
302	Parallel computational algorithms for the simulation of closed-loop robotic systems.	
301	The augmented object model: cooperative manipulation and parallel mechanism dynamics.	24
300	Dynamics Simulation and Controller Interfacing for Legged Robots. 2000 , 19, 42-58	7
299	Robot dynamics: equations and algorithms.	83
298	Measuring and reducing the Euclidean-space effects of robotic joint failures. 2000 , 16, 20-28	15
297	Dynamics computation of structure-varying kinematic chains and its application to human figures. 2000 , 16, 124-134	105
296	A versatile C++ toolbox for model based, real time control systems of robotic manipulators.	5

295	RECURSIVE KINEMATICS AND DYNAMICS FOR PARALLEL STRUCTURED CLOSED-LOOP MULTIBODY SYSTEMS*. 2001 , 29, 143-175	66
294	Model integrated computing in robot control to synthesize real-time embedded code.	
293	Comparative study of a learning fuzzy PID controller and a self-tuning controller. 2001, 40, 245-53	35
292	O(N) forward dynamics computation of open kinematic chains based on the principle of virtual work.	2
291	Biomechanics of Rowing. II. A Control Model for the Simulation Study of Rowing and Other Human Movement 2002 , 45, 1082-1092	6
290	Computer Simulation Study of Human Locomotion with a Three-Dimensional Entire-Body Neuro-Musculo-Skeletal Model. I. Acquisition of Normal Walking 2002 , 45, 1040-1050	39
289	References. 2002 , 447-473	1
288	The SOF-PID controller for the control of a MIMO robot arm. 2002 , 10, 523-532	33
287	A novel solution for the dynamic modeling of Gough-Stewart manipulators.	9
286	Model-based integration of visual cues for hand tracking.	
285	An O(N) modular algorithm for the dynamic simulation of robots constrained by a single contact. 2002 , 32, 406-415	4
284	A dynamic model for simulating a trip and fall during gait. 2002 , 24, 121-7	23
283	Serial-robot dynamics algorithms for moderately large numbers of joints. <i>Mechanism and Machine Theory</i> , 2002 , 37, 739-755	36
282	Human motion planning based on recursive dynamics and optimal control techniques. 2002 , 8, 433-58	27
281	Human gait simulation with a neuromusculoskeletal model and evolutionary computation. 2003 , 14, 73-92	30
280	Dynamic Analysis of Closed Loop Mechanisms on the Basis Vectors of Passive Joint Axes. 2003 , 20, 501-508	1
279	On the improvement of a fully recursive formulation for the dynamic analysis of multibody systems. 2003 , 17, 77	
278	Dynamic modeling in the simulation, optimization, and control of bipedal and quadrupedal robots. 2003 , 83, 648-662	12

277	Robot selection using DeNOC-based dynamics.	2
276	Dynamics Filter - concept and implementation of online motion Generator for human figures. 2003 , 19, 421-432	125
275	The Role of Motion Dynamics in the Design, Control and Stability of Bipedal and Quadrupedal Robots. <i>Lecture Notes in Computer Science</i> , 2003 , 206-223	7
274	An order n dynamic simulator for a humanoid robot with a virtual spring-damper contact model.	4
273	On the Bases of Wrench Spaces for the Kinematic and Dynamic Analysis of Mechanisms. 2003 , 125, 552-556	5
272	Automatic generated real-time models of robot dynamics. 2003 , 36, 67-72	1
271	Real-Time Multi-Body Vehicle Dynamics Using a Modular Modeling Methodology. 2003,	5
270	Analysis of the conformational dependence of mass-metric tensor determinants in serial polymers with constraints. 2004 , 121, 12708-20	22
269	An engineering approach to the dynamic control of space robotic on-orbit servicers. 2004 , 218, 79-98	24
268	An efficient dynamic modeling methodology for general type of hybrid robotic systems. 2004,	3
267	Inverse and direct dynamic modeling of Gough-Stewart robots. 2004 , 20, 754-762	94
266	. 2004 , 20, 82-92	6
265	A generalized framework for interactive dynamic simulation for MultiRigid bodies. 2004 , 34, 912-24	13
264	A modular dynamic simulation algorithm for complex robot systems. 2004,	2
263	Arm movements evoked by electrical stimulation in the motor cortex of monkeys. 2005, 94, 4209-23	132
262	Symbolic Calculation of the Generalized Inertia Matrix of Robots with a Large Number of Joints. Lecture Notes in Computer Science, 2005 , 643-650	1
261	Developments of fuzzy PID controllers. 2005 , 22, 254-264	19
260	Modular and Recursive Kinematics and Dynamics for Parallel Manipulators. 2005 , 14, 419-455	21

259	Three-dimensional link dynamics simulator based on N-single-particle movement. 2005 , 19, 977-993	2
258	Application of unnormalized quasi-velocities integrals. 2005 , 27, 231-242	
257	A modular approach to the dynamics of complex multirobot systems. 2005 , 21, 26-37	5
256	Hybrid kinematic and dynamic simulation of running machines. 2005 , 21, 490-497	7
255	Efficient Factorization of the Joint-Space Inertia Matrix for Branched Kinematic Trees. 2005 , 24, 487-500	32
254	Parallel O(log N) Algorithm for Dynamics Simulation of Humanoid Robots. 2006 ,	10
253	Automated Methods for Converting a Non Real-time Cartesian Multi-body Vehicle Dynamics Model to a Real-time Recursive Model. 2006 ,	1
252	Resolved Motion Control for High-Degree-Of-Freedom Articulated Figures. 2006 , 26, 309-315	
251	A virtual environment simulator for mechanical system dynamics with online interactive control. 2006 , 37, 631-642	7
250	Learning at the level of synergies for a robot weightlifter. 2006 , 54, 706-717	14
249	A survey of equations of motion in terms of inertial quasi-velocities for serial manipulators. 2006 , 76, 579-614	14
248	A Hybrid Parallelizable Algorithm for Computer Simulation of the Motion Behaviors of a Branched Multibody System. 2006 , 451	1
247	New Results on Robot Modeling and Simulation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 811-819	6
246	Balanced micro/macro contact model for forward dynamics of rigid multibody.	3
245	. 2006,	8
244	Using COTS to Construct a High Performance Robot Arm. 2007,	13
244	Using COTS to Construct a High Performance Robot Arm. 2007, Reaction Mass Pendulum (RMP): An explicit model for centroidal angular momentum of humanoid robots. 2007,	13

(2008-2007)

241	A Logarithmic Complexity Divide-and-Conquer Algorithm for Multi-flexible Articulated Body Dynamics. 2007 , 2, 10-21		36
240	The robot reliability design and improvement method and the advanced Toyota production system. 2007 , 34, 310-316		5
239	Learning to Control a 6-Degree-of-Freedom Walking Robot. 2007,		7
238	A Self-Organizing Neural Model for Fault-Tolerant Control of Redundant Robots. 2007,		3
237	Arm Dynamics Simulation. 2007, 1, 83-100		14
236	A recursive, numerically stable, and efficient simulation algorithm for serial robots. 2007 , 17, 291-319		31
235	Orthogonal Complement Based Divide-and-Conquer Algorithm for constrained multibody systems. <i>Nonlinear Dynamics</i> , 2007 , 48, 199-215	5	41
234	General Solution for the Dynamic Modeling of Parallel Robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2007 , 49, 19-37	2.9	88
233	Modular and distributed forward dynamic simulation of constrained mechanical systems (A comparative study. <i>Mechanism and Machine Theory</i> , 2007 , 42, 558-579	4	9
232	Multiple constrained rivaling actuators in the optimal control of miniaturized manipulators. 2008 , 19, 21-43		2
231	Cluster computing of mechanisms dynamics using recursive formulation. 2008, 20, 177-196		12
230	Control of Robot Manipulators in Terms of Quasi-Velocities. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2008 , 53, 205-221	2.9	9
229	Optimal Control of Rigid-Link Manipulators by Indirect Methods. 2008, 31, 27-58		15
228	A head-neck-eye system that learns fault-tolerant saccades to 3-D targets using a self-organizing neural model. 2008 , 21, 1380-91		9
227	Recursive modeling and control of multi-link manipulators with vacuum grippers. 2008, 79, 906-916		9
226	Teleoperation for a ball-catching task with significant dynamics. 2008 , 21, 604-20		8
225	Dynamics. 2008 , 35-65		55
224	Kinematic and dynamic analogies between planar biped robots and the reaction mass pendulum (RMP) model. 2008 ,		14

223	Stimulation Pattern-Free Control of FES Cycling: Simulation Study. 2008, 38, 125-134	23
222	Dynamics modeling of structure-varying kinematic chains for free-flying robots. 2008,	1
221	Posture analysis and control of dual-arm mobile for high voltage power lines. 2008,	
220	Computer Animation. 2008, 1	
219	Safe fall: Humanoid robot fall direction change through intelligent stepping and inertia shaping. 2009 ,	23
218	Trajectory scaling for a manipulator inverse dynamics control subject to generalized force derivative constraints. 2009 ,	1
217	Compact analysis of 3D bipedal gait using geometric dynamics of simplified models. 2009,	2
216	Comparative Study on Serial and Parallel Forward Dynamics Algorithms for Kinematic Chains*. 2009 , 28, 622-629	20
215	Robot manipulators. 2009 , 16, 75-83	5
214	Asymmetric trajectory generation and impedance control for running of biped robots. 2009 , 26, 47-78	17
213	Adequate motion simulation and collision detection for soccer playing humanoid robots. 2009 , 57, 786-795	10
212	A recursive, numerically stable, and efficient simulation algorithm for serial robots with flexible links. 2009 , 21, 1-35	18
211	Real-time reinforcement learning by sequential Actor-Critics and experience replay. 2009 , 22, 1484-97	32
210	Manipulation planning on constraint manifolds. 2009,	134
209	Effective Tool-Point Acceleration of Serial Chain Mechanisms Based on Basic Geometric Transformations. 2009 , 1,	2
208	Automatic separation method for generation of reconfigurable 6R robot dynamics equations. 2010 , 46, 831-842	10
207	Design of a walking cyclic gait with single support phases and impacts for the locomotor system of a thirteen-link 3D biped using the parametric optimization. 2010 , 23, 33-56	42
206	A Beginner's Guide to 6-D Vectors (Part 2) [Tutorial]. 2010 , 17, 88-99	20

205	Inverse and direct dynamic models of hybrid robots. <i>Mechanism and Machine Theory</i> , 2010 , 45, 627-640 4	40
204	Generalized direction changing fall control of humanoid robots among multiple objects. 2010,	7
203	Modelado y Resolucifi del Problema Dinfinico Inverso y Directo en Tiempo Real de Robots Industriales. 2010 , 7, 39-48	
202	Practical kinematic and dynamic calibration methods for force-controlled humanoid robots. 2011 ,	13
201	Model-based off-line compensation of path deviation for industrial robots in milling applications. 2011 ,	18
200	Motion simulator for a multi-degree-of-freedom magnetically levitated robot. 2011 ,	1
199	Deriving a closed form of equations of motion of musculoskeletal system of human body: Using Lagrangian dynamics. 2011 ,	1
198	Simulation of dynamics and realistic contact forces for manipulators and legged robots with high joint elasticity. 2011 ,	12
197	Real-time solving of dynamic problem in industrial robots. 2011 , 38, 119-129	6
196	A General Purpose Optimal Trajectory Planning Algorithm for Multibody Systems (1st Report, Open Loop Systems). 2011 , 77, 342-355	
195	Dynamic Modeling of Robots Using Newton-Euler Formulation. 2011 , 3-20	19
194	Task Space Regions: A framework for pose-constrained manipulation planning. 2011 , 30, 1435-1460	206
193	Dynamical analyses of humanoid's walking by visual lifting stabilization based on event-driven state transition. 2012 ,	9
192	Design of Powered Orthosis Based on 3D Neuro-musculo-skeletal Human Model. 2012 , 45, 491-497	
191	A general on-the-fly algorithm for modifying the kinematic tree hierarchy. 2012 , 22, 423-435	1
190	A divide and conquer algorithm for constrained multibody system dynamics based on augmented Lagrangian method with projections-based error correction. <i>Nonlinear Dynamics</i> , 2012 , 70, 871-889	31
189	A modular and efficient approach to computational modeling and sensitivity analysis of robot and human motion dynamics. 2012 , 12, 85-86	4
188	Cfhara Virtual de Referencia: Una Aproximacifi para el Guiado Combinado de Robots Manipuladores mediante una fiica Cfhara. 2012 , 9, 314-323	1

187	An United Recursive Robot Dynamics Based on Screws. 2012 , 3, 54-59		1
186	Application of Unscented Kalman Filter to a cable driven surgical robot: A simulation study. 2012 ,		10
185	Hardware experiments of humanoid robot safe fall using Aldebaran NAO. 2012,		4
184	A reduced-order recursive algorithm for the computation of the operational-space inertia matrix. 2012 ,		4
183	An interactive virtual prototyping platform considering environment effect described by fluid dynamics. 2012 , 28, 316-325		2
182	Modular framework for dynamic modeling and analyses of legged robots. <i>Mechanism and Machine Theory</i> , 2012 , 49, 234-255	4	25
181	Efficient Coarse-Grained Molecular Simulations in the Multibody Dynamics Scheme. <i>Computational Methods in Applied Sciences (Springer)</i> , 2013 , 147-172	0.4	2
180	Model-Based Control of a 3-DOF Parallel Robot Based on Identified Relevant Parameters. 2013 , 18, 17	37-174	444
179	A new factorization of the mass matrix for optimal serial and parallel calculation of multibody dynamics. 2013 , 29, 169-187		10
178	An extended divide-and-conquer algorithm for a generalized class of multibody constraints. 2013 , 29, 235-254		24
177	Dynamics of Robotic Systems. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2013 , 9-25	0.6	
176	Centroidal dynamics of a humanoid robot. 2013 , 35, 161-176		199
175	Application of recursive GibbsAppell formulation in deriving the equations of motion of N-viscoelastic robotic manipulators in 3D space using Timoshenko Beam Theory. 2013 , 83, 273-294		46
174	Recursive Composite Adaptation for Robot Manipulators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	5
173	Recursive Dynamics for Fixed-Base Robotic Systems. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2013 , 89-115	0.6	
172	Walking analyses of a humanoid by visual-lifting approach. 2013,		
171	Modeling and Control of Aerial Manipulation Vehicle with Visual sensor*. 2013, 46, 303-309		7
170	Dynamic Modeling of Deformable Manipulators. 2013 , 321-348		

169	Mobile Parallel Manipulators, Modelling and Data-Driven Motion Planning. 2013 , 10, 383	2
168	Biped simulation with Robotics Toolbox for MATLAB. 2014 ,	
167	Knee constraint effects of bipedal walking by Visual-lifting Approach. 2014,	
166	Fast and reasonable contact force computation in forward dynamics based on momentum-level penetration compensation. 2014 ,	6
165	Adaptive control of Aerial Manipulation Vehicle. 2014,	11
164	A General, Fast, and Robust Implementation of the Time-Optimal Path Parameterization Algorithm. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 1533-1540	89
163	Function approximation technique-based adaptive virtual decomposition control for a serial-chain manipulator. 2014 , 32, 375-399	16
162	Reduced-order forward dynamics of multiclosed-loop systems. 2014 , 31, 451-476	8
161	Direction-changing fall control of humanoid robots: theory and experiments. 2014 , 36, 199-223	19
160	Dynamic modeling of floating systems: Application to eel-like robot and rowing system. 2014 ,	2
159	A fundamental study of light and flexible wearable robot assisting to recover movement functions. 2014 ,	1
158	Dynamics modeling and simulation of space manipulator based on spatial vector. 2014 ,	1
157	OpenSYMORO: An open-source software package for symbolic modelling of robots. 2014,	23
156	Advances in the Application of the Divide-and-Conquer Algorithm to Multibody System Dynamics. 2014 , 9,	19
155	Iterative calculation method for constraint motion by extended Newton-Euler method and application for forward dynamics. 2014 , 80, DR0208-DR0208	3
154	Combining Movement Methods for Mechatronic Components in e-Robotics Systems. 2015,	
153	Dynamics and Trajectory Planning for Reconfigurable Space Multibody Robots. 2015, 137,	10
152	Iterative calculation method for constraint motion by extended newton-euler method and application for forward dynamics. 2015 ,	2

151	A recursive Newton-Euler algorithm for robots with elastic joints and its application to control. 2015 ,	20
150	Inverse dynamics of a 3-DOF translational parallel kinematic machine. 2015 , 29, 4583-4591	8
149	Continual Motion Control Based on RGJM for Space Robot. 2015,	1
148	Efficient recursive dynamics algorithms for operational-space control with application to legged locomotion. 2015 , 38, 363-381	3
147	Development and deployment of a new robotics toolbox for education. 2015 , 23, 443-454	23
146	Control oriented model-based simulation and experimental studies on a compliant legged quadruped robot. 2015 , 72, 217-234	21
145	Time-Optimal Path Parameterization for Redundantly Actuated Robots: A Numerical Integration Approach. 2015 , 20, 3257-3263	35
144	Determination of the wrench-closure translational workspace in closed-form for cable-driven parallel robots. 2016 ,	9
143	The electrical simulator for the space station manipulator under Linux/RTAI. 2016,	1
142	Vector form description of hydraulic cylinders interaction with links of actuating unit. 2016,	
142	Vector form description of hydraulic cylinders interaction with links of actuating unit. 2016 , Survey and comparative study of free simulation software for mobile robots. 2016 , 34, 791-822	12
		12
141	Survey and comparative study of free simulation software for mobile robots. 2016 , 34, 791-822	
141	Survey and comparative study of free simulation software for mobile robots. 2016 , 34, 791-822 Dynamics. 2016 , 37-66 Extended Divide-and-Conquer Algorithm for Uncertainty Analysis of Multibody Systems in	11
141 140 139	Survey and comparative study of free simulation software for mobile robots. 2016, 34, 791-822 Dynamics. 2016, 37-66 Extended Divide-and-Conquer Algorithm for Uncertainty Analysis of Multibody Systems in Polynomial Chaos Expansion Framework. 2016, 11, MBSlibAn Efficient Multibody Systems Library for Kinematics and Dynamics Simulation,	7
141 140 139 138	Survey and comparative study of free simulation software for mobile robots. 2016, 34, 791-822 Dynamics. 2016, 37-66 Extended Divide-and-Conquer Algorithm for Uncertainty Analysis of Multibody Systems in Polynomial Chaos Expansion Framework. 2016, 11, MBSlibAn Efficient Multibody Systems Library for Kinematics and Dynamics Simulation, Optimization and Sensitivity Analysis. 2016, 1, 954-960	11 7 5
141 140 139 138	Survey and comparative study of free simulation software for mobile robots. 2016, 34, 791-822 Dynamics. 2016, 37-66 Extended Divide-and-Conquer Algorithm for Uncertainty Analysis of Multibody Systems in Polynomial Chaos Expansion Framework. 2016, 11, MBSlibAn Efficient Multibody Systems Library for Kinematics and Dynamics Simulation, Optimization and Sensitivity Analysis. 2016, 1, 954-960 Humanoid motion analysis and control based on COG viscoelasticity. 2017, 31, 341-354	11 7 5

A Method for Solving Large-Scale Multiloop Constrained Dynamical Systems Using Structural Decomposition. **2017**, 12,

132	. 2017 , 2, 1296-1303		10
131	. 2017,		5
130	Logarithmic complexity dynamics formulation for computed torque control of articulated multibody systems. <i>Mechanism and Machine Theory</i> , 2017 , 116, 481-500		5
129	Computed torque control of fully-actuated nondeterministic multibody systems. 2017, 41, 347-365		3
128	Resolved Viscoelasticity Control Explicitly Considering Structure-Variability for Humanoids. <i>Journal of the Robotics Society of Japan</i> , 2017 , 35, 160-169).1	
127	Simurv 4.1. Springer Tracts in Advanced Robotics, 2018 , 331-346	0.5	
126	An analytical workbench for system level multibody dynamics. 2018 , 44, 57-79		1
125	Resolved Multiple Viscoelasticity Control for a Humanoid. 2018 , 3, 44-51		14
124	Fabrication and stress analysis of ankle foot orthosis with additive manufacturing. 2018 , 24, 301-312		25
123	Geometric Algorithms for Robot Dynamics: A Tutorial Review. 2018 , 70,		11
122	Discussion of G eometric Algorithms for Robot Dynamics: A Tutorial Review[F. C. Park, B. Kim, C. Jang, and J. Hong, 2018, ASME Appl. Mech. Rev., 70(1), p. 010803). 2018 , 70,		1
121	({{mathcal H}}_{infty })- Stabilization of a 3D Bipedal Locomotion Under a Unilateral Constraint. 2018 , 371-396		
120	Extension of the divide-and-conquer algorithm for the efficient inverse dynamics analysis of multibody systems. 2018 , 42, 145-167		6
119	Unified GPU-Parallelizable Robot Forward Dynamics Computation Using Band Sparsity. 2018 , 3, 203-209		1
118	The Momentum Equilibrium Principle: Foot Contact Stabilization with Relative Angular Momentum/Velocity. 2018 ,		6
117	Reducing the Computational Complexity of Mass-Matrix Calculation for High DOF Robots. 2018,		2
116	Dynamics of Humanoid Robots. <i>Journal of the Robotics Society of Japan</i> , 2018 , 36, 95-102).1	1

115	Inverse Dynamics for Discrete Geometric Mechanics of Multibody Systems With Application to Direct Optimal Control. 2018 , 13,	3
114	Time-variant feedback controller based on capture point and maximal output admissible set of a humanoid. 2019 , 33, 944-955	5
113	The Pinocchio C++ library: A fast and flexible implementation of rigid body dynamics algorithms and their analytical derivatives. 2019 ,	50
112	Effect of the coordinate frame on high-order expansion of serial-chain displacement. 2019 , 233, 840-855	1
111	RedMax. 2019 , 38, 1-10	11
110	Real-time control and application with self-tuning PID-type fuzzy adaptive controller of an inverted pendulum. 2019 , 46, 159-170	16
109	Deep Lagrangian Networks for end-to-end learning of energy-based control for under-actuated systems. 2019 ,	10
108	Benchmarking and Workload Analysis of Robot Dynamics Algorithms. 2019 ,	4
107	Dynamics and Control of Spacecraft Manipulators with Thrusters and Momentum Exchange Devices. 2019 , 42, 15-29	9
106	O(n) Algorithm for Elastic Link/Joint Robots with End-Effector Contact. 2019 , 115-132	
105	Free-flying Spacecraft-mounted Manipulators: A Tool for Simulating Dynamics and Control. 2019,	О
104	Historical Perspective and Scope. 2019 , 665-674	
103	Dynamic Formulations and Computational Algorithms. 2019 , 755-783	
102	Contact Simulation. 2019 , 1877-1931	
101	Multi-body Simulation. 2019 , 1855-1876	
100	Free Simulation Software and Library. 2019 , 2111-2130	
99	Decentralized adaptive partitioned approximation control of high degrees-of-freedom robotic manipulators considering three actuator control modes. 2019 , 7, 744-757	3
98	Statics. 2019 , 83-124	1

(2012-2020)

97	Efficient method for robot forward dynamics computation. <i>Mechanism and Machine Theory</i> , 2020 , 145, 103680	4	5
96	Whole-Body Motion Tracking for a Quadruped-on-Wheel Robot via a Compact-Form Controller With Improved Prioritized Optimization. 2020 , 5, 516-523		6
95	A survey: dynamics of humanoid robots. 2020 , 34, 1338-1352		10
94	A compact form dynamics controller for a high-DOF tetrapod-on-wheel robot with one manipulator via null space based convex optimization and compatible impedance controllers. 2020 , 49, 447-463		4
93	Dynamic Stabilization of NAO Humanoid Robot Based on Whole-Body Control with Simulated Annealing. 2020 , 17, 2050014		15
92	EMG-driven hand model based on the classification of individual finger movements. 2020 , 58, 101834		20
91	Emergent Humanoid Robot Motion Synergies Derived From the Momentum Equilibrium Principle and the Distribution of Momentum. <i>IEEE Transactions on Robotics</i> , 2021 , 1-20	6.5	2
90	Dynamics of Continuum and Soft Robots: A Strain Parameterization Based Approach. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 847-863	6.5	24
89	Numerical Methods to Compute the Coriolis Matrix and Christoffel Symbols for Rigid-Body Systems. 2021 , 16,		2
88	A general framework for modeling and dynamic simulation of multibody systems using factor graphs. <i>Nonlinear Dynamics</i> , 2021 , 105, 2031-2053	5	О
87	RMPflow: A Geometric Framework for Generation of Multitask Motion Policies. 2021, 18, 968-987		3
86	Biomimetic Flip-and-Flap Strategy of Flying Objects for Perching on Inclined Surfaces. 2021 , 6, 5199-520	06	1
85	Two-loop controller design and implementations for an inverted pendulum system with optimal self-adaptive fuzzy-proportional[htegral]erivative control. 014233122110403		2
84	Accelerating Second-Order Differential Dynamic Programming for Rigid-Body Systems. 2021 , 6, 7659-7	666	2
83	Intelligent Fuzzy PID Controller. 2008 , 241-260		3
82	Contact Dynamics Formulation Using Minimal Coordinates. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 93-121	0.4	1
81	Analysis of Industrial Robot Structure and Milling Process Interaction for Path Manipulation. Lecture Notes in Production Engineering, 2013 , 245-263	О	7
80	Fast Dynamic Simulation of Highly Articulated Robots with Contact via (h2) Time Dense Generalized Inertia Matrix Inversion. <i>Lecture Notes in Computer Science</i> , 2012 , 65-76	0.9	1

79	Robotics Vector Processor Architecture for Real-Time Control. 1991 , 203-238		1
78	On The Parallel Algorithms for Robotic Computations. 1991 , 239-280		1
77	Symbolic Generation of Efficient Simulation/Control Routines for Multibody Systems. 1986 , 153-164		1
76	The Use of Three-Dimensional Dynamic and Kinematic Modelling in the Design of a Colonoscopy Simulator. 1988 , 565-574		1
75	An Algorithm for Efficient Computation of Dynamics of Robotic Manipulators. 1989, 175-188		3
74	Object-Oriented Modelling of Mechanical Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 1995 , 217-276	0.6	4
73	Evaluation of Loop Constraints of General Closed-Chain Linkages. 1991 , 136-143		1
72	Multi-Legged Robots Review. Cognitive Intelligence and Robotics, 2020, 11-32	0.1	3
71	Singularity-free augmented Lagrangian algorithms for constrained multibody dynamics. <i>Nonlinear Dynamics</i> , 1994 , 5, 209-231	5	30
70	Techniques for Parallel Computation of Mechanical Manipulator Dynamics. Part II: Forward Dynamics. <i>Control and Dynamic Systems</i> , 1991 , 40, 357-410		11
69	Computer simulation of dynamics of central type docking mechanisms for spacecrafts. <i>Keldysh Institute Preprints</i> , 2019 , 1-40	0.3	2
68	Hand-Eye Motion-Invariant Pose Estimation with Online 1-Step GA -3D Pose Tracking Accuracy Evaluation in Dynamic Hand-Eye Oscillation <i>Journal of Robotics and Mechatronics</i> , 2009 , 21, 709-719	0.7	6
67	MODEL OF HUMAN WALKING WITH THREE-DIMENSIONAL MUSCULO-SKELETAL SYSTEM AND HIERARCHICAL NEURONAL SYSTEM. <i>Biomechanisms</i> , 2000 , 15, 187-198	0.2	6
66	. 2021,		4
65	Motion Tracking with Dynamic Simulation. <i>Eurographics</i> , 2000 , 59-71		
64	Dynamics. 2000 , 131-183		3
63	Prerational Intelligence from the Perspectives of Robotics and Engineering. <i>Studies in Cognitive Systems</i> , 2000 , 1374-1398		
62	?????????? ጀ??????,???በJournal of the Robotics Society of Japan, 2009 , 27, 378-383	0.1	1

(1991-2012)

61	Scratchbuilding Software Libraries to Support from Robot Motion Computation to Hardware Control. <i>Journal of the Robotics Society of Japan</i> , 2012 , 30, 860-864	0.1	
60	Simurv 4.0. Springer Tracts in Advanced Robotics, 2014 , 257-265	0.5	1
59	Dynamics of Serial Robotic Manipulators. <i>Mechanical Engineering Series</i> , 2014 , 281-351	0.3	
58	A Real-Time Multibody Dynamics Model for an Unmanned Robot Vehicle Based on the Subsystem Synthesis Method. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 333-355	0.4	1
57	Dynamic Synthesis of Manipulator Motion Paths. 1984 , 240-246		
56	Robot Dynamics. 1984 , 113-113		
55	Computer-Assisted Generation of Robot Dynamic Models in Analytical Form. 1985 , 1-35		1
54	Computer Aided Robotics. 1986 , 266-282		
53	Catalogue of Artificial Intelligence Tools. 1986 , 7-161		1
52	A Robot Dynamics Simulator. 1986 , 321-329		
51	Real-Time Computation of Control Torques for Mechanical Manipulators using Concurrent Processors. 1988 , 1236-1241		
50	STABILITY ANALYSIS OF POSITION-FORCE CONTROL USING LINEARIZED CARTESIAN SPACE MODEL. 1989 , 249-254		
49	Modeling, Trajectory Coordination, Control and Simulation of the Multiarm System. 1989 , 149-154		
48	Modeling, Trajectory Coordination, Control and Simulation of the Multiarm System. 1989 , 149-154		
47	SIMULATION AND CONTROL OF SPACE MANIPULATORS BEARING COMPLEX PAYLOADS. 1990 , 127-13	32	
46	R. 1990 , 132-140		1
45	Manipulator Forward Dynamics. 1991 , 183-218		
44	A PC Simulation Program for Comparing Performances of Robot Control Algorithms. 1991 , 153-175		

43	Introduction. 1991 , 1-18		
42	Systolic Architectures for Dynamic Control of Manipulators. <i>Control and Dynamic Systems</i> , 1991 , 285-31	13	
41	Parallel Algorithms and Fault-Tolerant Reconfigurable Architecture for Robot Kinematics and Dynamics Computations. <i>Control and Dynamic Systems</i> , 1991 , 33-103		
40	SIMULATION OF ROBOTS WITH FLEXIBLE LINKS. 1992 , 327-332		1
39	Recursive Flexible Multibody Dynamics Using Spatial Operators. <i>Manufacturing Research and Technology</i> , 1993 , 16, 345-358		
38	Simulation Based Design of Automotive Systems. 1993 , 303-337		1
37	Dynamical Simulation For Multibody Systems. <i>Journal of the Society of Mechanical Engineers</i> , 1993 , 96, 137-140	O	
36	Literaturverzeichnis. 1994 , 177-182		
35	Integrated Development Environment for Mechatronic Systems. 1995 , 54-69		2
34	Dynamic Modelling of Mechanisms. Qualifying of Three Integration Schemes. 1997 , 255-264		
33	Optimization of multibody systems via an energy conserving minimal coordinate formulation. 1998,		
32	Strategic Development of New JIT. 2014 , 141-224		
31	Contact Simulation. 2017 , 1-55		1
30	Free Simulation Software and Library. 2017 , 1-20		
29	Multi-Body Simulation. 2017 , 1-22		
28	Dynamic Formulations and Computational Algorithms. 2017 , 1-29		
27	ALGORITHM OF EULER-LAGRANGE METHOD FOR DEISGNING OF DYNAMIC MODEL. <i>Technical Sciences and Technologies</i> , 2018 , 89-95	O	
26	Can Walking Be Modeled in a Pure Mechanical Fashion. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 289-301	0.4	1

25	Verification of the Dynamic Modeling of 2-R Robot Actuated by (N) Equally Spaced Planet-Gears by Using SolidWorks and MATLAB/SIMULINK. <i>Mechanics and Mechanical Engineering</i> , 2018 , 22, 1497-1510	0.9		
24	Dynamic equations of peripheral docking mechanisms as parallel manipulators. <i>Keldysh Institute Preprints</i> , 2019 , 1-32	0.3	3	
23	Encyclopedia of Robotics. 2020 , 1-6			
22	Computation optimization in procedures of rigid body system dynamics calculation. <i>Keldysh Institute Preprints</i> , 2020 , 1-44	0.3		
21	RMPflow: A Computational Graph for Automatic Motion Policy Generation. <i>Springer Proceedings in Advanced Robotics</i> , 2020 , 441-457	0.6	4	
20	Encyclopedia of Robotics. 2021 , 1-4			
19	Dynamic Formulation Using the Decoupled Natural Orthogonal Complement (DeNOC). <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2022 , 29-42	0.6	1	
18	Leg Centroidal Dynamics Based New Locomotion Principle of a Quadruped Robot with On-line Legged Motion Generation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	1	
17	Introduction. Intelligent Systems, Control and Automation: Science and Engineering, 2022, 1-26	0.6		
16	Dynamics of Serial RigidElexible Robots. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2022 , 43-96	0.6		
15	Humanoid Motion Control by Compliance Optimization Explicitly Considering its Positive Definiteness. <i>IEEE Transactions on Robotics</i> , 2021 , 1-17	6.5		
14	Mixed Use of Analytical Derivatives and Algorithmic Differentiation for NMPC of Robot Manipulators. <i>IFAC-PapersOnLine</i> , 2021 , 54, 78-83	0.7	1	
13	Dynamics Computation of a Hybrid Multi-link Humanoid Robot Integrating Rigid and Soft Bodies. 2021 ,		0	
12	Identification. Studies in Systems, Decision and Control, 2022, 75-113	0.8		
11	Compliance Optimization Considering Dynamics for Whole-Body Control of a Humanoid. <i>Springer Proceedings in Advanced Robotics</i> , 2022 , 876-889	0.6	1	
10	Hybrid Dynamics of Nonsmooth Mechanical Systems: A Switching Differential-Algebraic Formulation. <i>Mechanisms and Machine Science</i> , 2022 , 178-187	0.3		
9	Advanced Dynamics Processes Applied to an Articulated Robot. <i>Processes</i> , 2022 , 10, 640	2.9	3	
8	An explicit modelling method of joint-space inertia matrix for tree-chain dynamic system. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 104033	2.8		

7 Symbolic Dynamics. **2022**, 1-15

6	Dynamics of Parallel Robots. 2022 , 1-9			
5	Efficient geometric linearization of moving-base rigid robot dynamics. <i>Journal of Geometric Mechanics</i> , 2022 ,	1.5		
4	Robot Reliability Design and Improvement Method Using Advanced TPS. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , 2022 , 394-407	0.3		
3	An innovative joint-space dynamic theory for rigid multi-axis system - Part II: Canonical dynamic equations. <i>Applied Mathematical Modelling</i> , 2022 ,	4.5	O	
2	The explanation of two semi-recursive multibody methods for educational purpose. <i>Mechanism and Machine Theory</i> , 2022 , 175, 104935	4	O	
1	Modeling of rigid-link and compliant joint manipulator using the discrete body dynamics method.		O	