

Sunil K Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

1,523
citations

840119

11
h-index

996533

15
g-index

16
all docs

16
docs citations

16
times ranked

1335
citing authors

#	ARTICLE	IF	CITATIONS
1	Robot Assisted Gait Training With Active Leg Exoskeleton (ALEX). IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 2-8.	2.7	629
2	Balance and gait in the elderly: A contemporary review. Laryngoscope Investigative Otolaryngology, 2019, 4, 143-153.	0.6	229
3	Trajectory Planning of Differentially Flat Systems with Dynamics and Inequalities. Journal of Guidance, Control, and Dynamics, 2001, 24, 219-227.	1.6	141
4	Gravity-balancing of spatial robotic manipulators. Mechanism and Machine Theory, 2004, 39, 1331-1344.	2.7	136
5	Novel Gait Adaptation and Neuromotor Training Results Using an Active Leg Exoskeleton. IEEE/ASME Transactions on Mechatronics, 2010, 15, 216-225.	3.7	131
6	Design and Fabrication of an Active Gravity Balanced Planar Mechanism Using Auxiliary Parallelograms. Journal of Mechanical Design, Transactions of the ASME, 2001, 123, 525-528.	1.7	78
7	Differential flatness based nonlinear predictive control of fed-batch bioreactors. Control Engineering Practice, 2001, 9, 889-899.	3.2	56
8	Retraining of Human Gait - Are Lightweight Cable-Driven Leg Exoskeleton Designs Effective?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 847-855.	2.7	40
9	Planning and control of under-actuated mobile manipulators using differential flatness. Autonomous Robots, 2010, 29, 35-52.	3.2	29
10	A Flatness Based Approach to Trajectory Modification of Residual Motion of Cable Transporter Systems. JVC/Journal of Vibration and Control, 2004, 10, 1441-1457.	1.5	12
11	Differentially Flat Design of Bipedes Ensuring Limit-Cycles. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	11
12	Design of Under-Actuated Open-Chain Planar Robots for Repetitive Cyclic Motions. , 2006, , 1057.		9
13	An Energy Efficient Manipulator Design Approach: Application to a Leg in Swing Phase. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 512-519.	1.7	8
14	Hearing Loss Is Associated with Increased Variability in Double Support Period in the Elderly. Sensors, 2021, 21, 278.	2.1	7
15	Changes in Gait Parameters Due to Visual and Head Oscillations in Football Players and Non-Athletes. IEEE Robotics and Automation Letters, 2022, 7, 7171-7176.	3.3	4
16	MAXFAS: Mechatronic Arm Exoskeleton for Firearm Aim Stabilization. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	3