## Sunil K Agrawal

List of Publications by Year in descending order

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#	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.	4.9	629
2	Balance and gait in the elderly: A contemporary review. Laryngoscope Investigative Otolaryngology, 2019, 4, 143-153.	1.5	229
3	Trajectory Planning of Differentially Flat Systems with Dynamics and Inequalities. Journal of Guidance, Control, and Dynamics, 2001, 24, 219-227.	2.8	141
4	Gravity-balancing of spatial robotic manipulators. Mechanism and Machine Theory, 2004, 39, 1331-1344.	4.5	136
5	Novel Gait Adaptation and Neuromotor Training Results Using an Active Leg Exoskeleton. IEEE/ASME Transactions on Mechatronics, 2010, 15, 216-225.	5.8	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.	2.9	78
7	Differential flatness based nonlinear predictive control of fed-batch bioreactors. Control Engineering Practice, 2001, 9, 889-899.	5.5	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.	4.9	40
9	Planning and control of under-actuated mobile manipulators using differential flatness. Autonomous Robots, 2010, 29, 35-52.	4.8	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.	2.6	12
11	Differentially Flat Design of Bipeds 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.	2.9	8
14	Hearing Loss Is Associated with Increased Variability in Double Support Period in the Elderly. Sensors, 2021, 21, 278.	3.8	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.	5.1	4
16	MAXFAS: Mechatronic Arm Exoskeleton for Firearm Aim Stabilization. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	3