

LIST OF PUBLICATIONS

Faculty: Prof. P Vivekananda Shanmuganathan

Department of Mechanical Engineering

JOURNAL PUBLICATIONS

Fast responsive soft bio-mimetic robotic actuators, R. Goyal, P.L. Madhuri, S.K. Prasad, G. Hegde, and **P.V. Shanmuganathan**, *Materials Today: Proceedings*, 15(2), 300-308 (2019)

Flexible Threshold Visual Odometry Algorithm Using Fuzzy Logics, R. Mahajan, **P.V. Shanmuganathan**, V. Karar, and S. Poddar, *Advances in Intelligent Systems and Computing*, 73, 289-302 (2018)

Tribology of Silicon Surfaces: A review, K.M. Kumar, **P.V. Shanmuganathan**, and A. Sethuramiah, *Materials Today: Proceedings*, 5(11), 24809-24819 (2018)

Modeling and control of collaborative robot system using haptic feedback, **P.V. Shanmuganathan**, P. Lad, and M. Pawar, *Advances in Science, Technology and Engineering Systems Journal*, 3(2), 1549-1555 (2017)

Simulation and modeling of 6-dof biped mechanism, *Indian Journal of Science and Technology*, 8(S2), 185-188 (2015)

Exoskeleton robot manipulator for gait refinement, A.S. Abraham, N.A. Nambiraj, and **P.V. Shanmuganathan**, *ARPJ Journal for Engineering and Applied Sciences*, 8(10), 846-848 (2013)

Development of a prototype sensor for measuring ground reaction force on a walking robot, K. Divakaran and **P.V. Shanmuganathan**, *International Journal of Current Research*, 3(11), 119-122 (2011)

Search for Initial Conditions for Sustained Hopping of Passive Springy-Leg Offset-Mass Hopping Robot, B. Seth, P. Seshu, **P.V. Shanmuganathan**, V.V. Vichare, and P. Raj, *ASME Journal of Dynamics Systems, Measurements & Control* (2007)

Passive Dynamics of Kangaroo-like Hopping Robot, B. Seth, P. Seshu, **P.V. Shanmuganathan**, *Journal of Institution of Engineers (India)*, 87, 39-45 (2006)

An Algorithm for Splitting a Box by a Loop and Its Applications in Manufacturing, K.P. Karunakaran, A. Kheerwal, **P.V. Shanmuganathan**, and R. Shringi, *International Journal of CAD/CAM*, 3(2), 85-95 (2003).

BOOK CHAPTERS

Development of digital twin interface for a collaborative robot, **P. V. Shanmuganathan**, Springer book chapter (2022).

CONFERENCE PROCEEDINGS

Design and development of soft actuators for surgical application, S. Ghate, G. Kulikovskis and **P.V. Shanmuganathan**, International Conference on Data Management, Analytics and Innovation (ICDMAI) (2017)

Actuation of Prosthetic Drive using EMG Signal, P. Geethanjali, **P.V. Shanmuganathan**, and K.K. Ray, IEEE TENCON (2009).

Modular Testrig For Underactuated Legged Locomotion, **P.V. Shanmuganathan** and A.A. Reddy, 22nd International Conference on CAD/CAM, Robotics, and Factories of the Future (2006)

Single-link springy leg in passive hopping, **P.V. Shanmuganathan**, B. Seth and P. Seshu , National Conference on Machines and Mechanisms (1999).

3-D Camera calibration for machine vision applications, **P.V. Shanmuganathan**, P. Radhakrishnan, A.I. Edinbarough and K. Natarajan, 18th National Systems Conference (1995)

Closed form inverse kinematics solution for a 5-axis articulated robot manipulator, **P. V. Shanmuganathan**, P. Radhakrishnan, A.I. Edinbarough and K. Natarajan, 18th National Systems Conference (1995).

EDITED VOLUME

Innovating the future through manufacturing. Narosa Publishing House, New Delhi. P.V. Shanmuganathan, K. Raja and P. Kuppan, Eds. (2005; 21st AIMTDR Conference)
