

References

- [1] F. Daerden, "Conception and realization of pleated pneumatic artificial muscles and their use as compliant actuation elements," PhD Dissertation, Vrije Universiteit Brussel, July 1999.
- [2] D. G. Caldwell, G. A. M. Cerda and M. Goodwin "Control of pneumatic muscle actuators," *Control Systems Magazine, IEEE* Vol. 15, pp.40-48, Feb 1995.
- [3] T. D. C. Thanh and K. K. Ahn, "Intelligent Phase Plane Switching Control of Pneumatic Artificial Muscle Manipulators with Magneto Rheological Brake," *Mechatronics (Mechatronics) ISSN 0957-4158* vol. 16, pp. 85-95, 2006.
- [4] F. Daerden, D. Lefeber, B. Verrelst and R.V. Ham, "Pleated pneumatic artificial muscles," *compliant robotic actuators 2001 IEEE/RSJ International Conference on Intelligent Robots and Systems, Maui, Hawaii* October-November 2001, pp. 1958-1963.
- [5] F. Daerden and D. Lefeber, "The concept and design of pleated pneumatic artificial muscles," *International Journal of Fluid Power*, 2001.
- [6] A.V. Gonzales, P. Cinquin, J. Troccaz, A. Guerraz, B. Hennion, F. Pellissier, P. Thorel, F. Courreges, A. Gourdon, G. Poisson, P.Vieyres and P. Caron, "TER: a system for robotic tele-echography," 2002.
- [7] M. L. Turner, R. P. Findley, W. B. Griffin, M. R. Cutkosky and D. H. Gomez, "Development and Testing of a Tele manipulation System with Arm and Hand Motion,"
- [8] K. Hosoda and T. Takuma, "Ballistic Control for 2D/3D Pneumatic Actuated Walking Robots," *Proceedings of Workshop on Morphology, Control and Passive Dynamics*, 2005.
- [9] M. Wisse and J. V. Frankenhuyzen, "Design and construction of mike; 2d autonomous biped based on passive dynamic walking," *International Symposium on Adaptive Motion of Animals and Machines*, 3 2003.
- [10] B. Vanderborght, B. Verrelst, V. R Ham, J. Naudet, J. Vermeulen, D. Lefeber and F. Daerden, "LUCY a Bipedal Walking Robot with Pneumatic Artificial Muscles," *IEEE Mechatronics and Robotics 2004, Aachen. Germany*, September 2004.



- [11] H. Ritter, R. Haschke, R. Koiva, F. Rothling and J.J. Steil, "A layered control architecture for imitation grasping with a 20-DOF pneumatic anthropomorphic hand," Neuroinformatics Group. Faculty of Technology, University of Bielefeld.
- [12] X. Chang and J. H. Lilly, "Fuzzy Control for Pneumatic Muscle Tracking via Evolutionary Tuning," *Intelligent Automation and Soft Computing, international Journal*, Publisher: Autosoft Press, Albuguerque. ISSN: 1079-8587.
- [13] J. H. Lilly, "Adaptive Tracking for Pneumatic Muscle Actuators in Bicep and Tricep Configurations," *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 11, no.3, September 2003.
- [14] M. Zeller, K. R. Wallace and K. Schulten., "Biological visuomotor control of a pneumatic robot arm," *Intelligent Engineering Systems Through Artificial Neural Networks*, American Society of Mechanical Engineers. New York, vol. 5, pp. 645-650, 1995.
- [15] F. Daerden and D. Lefeber, "Pneumatic artificial muscles: actuators for robotics and automation," *European Journal of Mechanical and Environmental Engineering*, 2002.
- [16] R. W. Colbrunn, G. M. Nelson and R. D. Quinn, "Modeling of Braided Pneumatic Actuators for Robotic Control," Case Western Reserve University.
- [17] P. Beyl, B. Vanderborght, R. V. Ham, M.V. Damme, R. Versluis and D. Lefeber "Compliant actuation in New Robotic Applications," *Proceedings of the NCTAM06 – 7th National Congress on Theoretical and Applied Mechanics. Belgium*, May 29th and 30th 2006.
- [18] S. Maas, M. Wiering and B. Verhaar, "Reinforcement Learning of a Pneumatic Robot Arm Controller," September 2004.
- [19] A. Hildebrandt, O. Sawodny, R. Neumann and A. Hartmann, "A Flatness Based Design for Tracking Control of Pneumatic Muscle Actuators," *Seventh International Conference on Control, Automation, Robotics And Vision (ICARCV'02)*, Singapore, Dec 2002.

- [20] V. M. Damme, F. Daerden and D. Lefeber, "A Pneumatic Manipulator used in Direct Contact with an Operator," *Proceedings of the 2005 IEEE International Conference on Robotics and Automation, Barcelona, Spain*, April 2005 pp. 4505-4510.
- [21] M. Zeller, R. Sharma, K. Schulten, "Topology Representing network for sensor based robot motion planning," <http://citeseer.ist.psu.edu/zeller96topology.html>, 1996.
- [22] T. Hesselroth, K. Sarkar, P.P.V. Smagt and K. Schulten, "Neural Network Control of a Pneumatic Robot Arm," *IEEE Trans. on Systems, Man and Cybernetics*, vol. 24, no. 1, pp. 28–38, January 1994.
- [23] B. Tondu and P. Lopez, "Modeling and control of McKibben Artificial Muscle Robot Actuators," *IEEE Control Systems Magazine* 20(2), pp. 15–38, 2000.
- [24] K. Hosoda, T. Takuma and M. Ishikawa, "Design and Control of a 3D Biped Robot Actuated by Antagonistic Pairs of Pneumatic Muscles" *Proceedings of 3rd International Symposium on Adaptive Motion in Animals and Machines*, 2005.
- [25] P. Carbonell, Z. P. Jiang, and D. Repperger, "Nonlinear Control of a Pneumatic Muscle Actuator: backstepping vs. Sliding-mode," *Proc. Of the IEEE International Conference on Control Applications*, Mexico, 2001.
- [26] http://www.arn.org/docs/glicksinan/evw_040901.htm.
- [27] Lanka Udawatta, P.G.S. Priyadarshana and Sanjeeva Witharana, "Control of Pneumatic Artificial Muscle for Bicep Configuration Using IBC" Proc. 3rd International Conference on Information and Automation for sustainability, 4-6 December 2007.
- [28] S. Devasia, D. chen, and B.paden,"Nonlinear Inversion-based output tracking," *IEEE Tran.Automat Contr.*,vol.41,pp.930-942,July 1996.
- [29] S. Devasia, and Q. Zon,"Preview-Based Optimal Inversion for Output Tracking: Application to Scanning Tunneling Microscopy," *IEEE Tran.Automat Contr.*, vol.12, No 3, May 2004.
- [30] D. Kwon and W.J.Book, "A time-domain inverse dynamic tracking control of a single-link flexible manipulator," *J.Dyanamic Syst. Measurement Control*, vol.116, no.2, pp.193-200, 1994.

- [31] B.Parden, D.Chen, R.Ledsema, and E. Bayo, "Exponentially stable tracking control for Multi-joint Flexible manipulators," *ASME J.Dyanamic Syst. Measurement Control*, vol.115, no.2, pp.53-59, 1993.
- [32] C.Tomlin, J.Lygeros and S.Sastry, "Output Tracking for nonminimum phase dynamic CTOL aircraft Model," in *Proc. IEEE conf. Decision and Control*, New Orleans, LA, 1995, pp.1867-1872.



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk