

參考文獻

- [1] B. Hudgins, P. Parker, and R. N. Scott, "A new strategy for multifunction myoelectric control," *IEEE Transaction on Biomedical Engineering*, vol. 40, no. 1, pp. 82-94, 1993.
- [2] C. J. De Luca, "The use of surface electromyography in biomechanics," *Journal of Applied Biomechanics*, vol. 13, no. 2, pp.135-163, 1997.
- [3] C. J. Abul-haj and N. Hogan, "Functional assessment of control systems for cybernetic elbow prostheses — Part I, Part II," *IEEE Transaction on Biomedical Engineering*, vol. 37, no. 11, pp. 1025–1047, 1990.
- [4] C.S. Pattichis, C.N. Schiizas and L.T. Middleton, "Neural network models in EMG diagnosis," *IEEE Transactions on Biomedical Engineering*, vol. 42, no. 5, pp. 486-496, 1995.
- [5] D. Dorcas and R. N. Scott. "A three state myoelectric control," *Medical and Biological Engineering*, vol. 4, pp. 367-372, 1966.
- [6] D. A. Childress, "A myoelectric three state controller using rate sensitivity," in *Proc. 8th ICMBE*, pp. 4-5, 1969.
- [7] D. Grupe, J. Magnussen, and A. A. Beex, "A Microprocessor System for Multifunction control of Upper Limb prosthesis via Myoelectric Signal identification," *IEEE Transaction on Automatic Control*, vol. 23, no. 4, pp. 539-544, 1978.
- [8] D. Gordon and E. Robertson, "Electromyography : Processing," Biomechanics Laboratory, School of Human Kinetics, University of Ottawa, Ottawa, Canada.
- [9] G. N. Saridis and T.P. Gootee, "EMG pattern analysis and classification for a prosthetic arm," *IEEE Transaction on Biomedical Engineering*, vol. 29, no. 6, pp. 403-412, 1982.
- [10] G. A. Barreto and A. F. R. Araújo, "Identification and Control of Dynamical Systems Using the Self-Organizing Map," *IEEE Transactions on Neural Networks*, vol. 15, no. 5, , pp.1244-1259, 2004.
- [11] H. Graichen, K.-H. Englmeier, M. Reiser, and F. Eckstein, "An in vivo technique for determining 3D muscular moment arms in different joint positions and during muscular activation – Application to the supraspinatus," *Clinical Biomechanics*, vol. 16, no. 5, pp. 389–394, 2001.
- [12] H. P. Huang, Y. H. Liu, and C. S. Wong, "Automatic EMG feature evaluation for controlling a prosthetic hand using supervised feature mining method: an intelligent approach," *IEEE International Conference on Robotics and Automation*, vol. 1, pp. 220-225, 2003.

- [13] H. P. Huang, Y. H. Liu, L. W. Liu, and C. S. Wong, "EMG classification for prehensile postures using cascaded architecture of neural networks with self-organizing maps," *IEEE International Conference on Robotics and Automation*, vol. 1, pp. 1497-1502, 2003.
- [14] H. P. Huang, and C. Y. Chen, "Development of a myoelectric discrimination system for a multi-degree prosthetic hand," *IEEE International Conference on Robotics and Automation*, vol. 3, pp. 2392-2397, 1999.
- [15] K. Kiguchi, T. Tanaka, and T. Fukuda, "Neuro-fuzzy control of a robotic exoskeleton with EMG signals," *IEEE Transactions on Fuzzy Systems*, vol. 12, no. 4, pp. 481-490, 2004.
- [16] K. Ito, T. Tsuji, A. Kato, and M. Ito, "An EMG-controlled prosthetic forearm in three degrees of freedom using ultrasonic motors," *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, vol. 14, no. 4, pp. 1487-1488, 1992.
- [17] K. Kuribayashi, K. Okimura, and T. Taniguchi, "A discrimination system using neural network for EMG-controlled prosthesis," *IEEE International Workshop on Robot and Human Communication*, pp. 63-68, 1992.
- [18] M. F. Kelly, P. A. Parker, and R. N. Scott, "The application of neural networks to myoelectric signal analysis: A preliminary study," *IEEE Transaction on Biomedical Engineering*, vol. 37, no. 3, pp. 221-230, 1990.
- [19] M. F. Kelly, P. A. Parker and R. N. Scott, "Myoelectric signal analysis using neural networks," *IEEE Engineering in Medicine & Biology Magazine*, vol. 8, no. 1, pp. 61-64, 1990.
- [20] M. Z. Kermani, B. C. Wheeler, K. Badie, and R. M. Hashemi, "EMG feature evaluation for movement control of upper extremity prostheses," *IEEE Transaction on Rehabilitation Engineering*, vol. 3, no. 4, pp. 324-333, 1995.
- [21] Mitsubishi Industrial Robot, "Instruction Manual : Ethernet Interface."
- [22] Mitsubishi Industrial Robot, "Instruction Manual: Explanations of MOVE-MASTER COMMANDS."
- [23] N. Wiener, *CYBERNETICS or Control and Communication in the Animal and the Machine*, MIT Press, 1948.
- [24] O. Fukuda, T. Tsuji, M. Kaneko, and A. Otsuka, "A human-assisting manipulator teleoperated by EMG signals and arm motions," *IEEE Transactions on Robotics and Automation*, vol. 19, no. 2, pp.210-222, 2003.
- [25] P. Parker, J. Stuller and N. Scott, "Signal processing for the multistate myoelectric channel," *Proceedings of the IEEE*, vol. 65, no. 5, pp. 662-674, 1977.
- [26] S. Jacobsen, D. Knutti, R. Johnson and H. Sears, "Development of the Utah

artificial arm,” *IEEE Transaction on Biomedical Engineering*, vol. 29, no. 4, pp. 249-269, 1982.

- [27] W. M. Murray, S. L. Delp, and T. S. Buchanan, “Variation of muscle moment arm with elbow and forearm position,” *Journal of Biomechanics*, vol. 28, no. 5, pp. 513–525, 1995.
- [28] Y. Handa and N. Hoshimiya, “Functional electrical simulation for the control of the upper extremities,” *Medical Progress through Technology 12*, pp. 51-63, 1987.
- [29] 陳俊彥, 使用生醫訊號作為多自由度電動義肢手控制器之建構, 台灣大學機械工程所碩士論文, 民國八十七年六月.
- [30] 董憲奇, 肘關節神經復健用機器人之改進與臨床研究, 成功大學機械工程系碩士論文, 九十一年六月.
- [31] 杜翌群, 以穩態小波結合 PCA 及 ICA 辨識手部動作之肌電圖評估, 中原大學醫學工程學所碩士論文, 民國九十二年七月.
- [32] 林齊宣, 解剖學原理與實用, 合記圖書出版社, 1997.
- [33] 劉伯駿, 基於肌電圖之機器臂控制系統, 交通大學電機與控制工程學所碩士論文, 民國九十四年七月
- [34] 蔡政龍, 肌電圖強度與速度分析於機器手臂控制之應用, 交通大學電機與控制工程學所碩士論文, 民國九十五年七月