

# 參考文獻

- [1] G. A. Bekey, H. Liu, R. Tomovic, and W. J. Karplus, "Knowledge-Based Control of Grasping in Robot Hands Using Heuristics from Human Motor Skills," *IEEE Trans. on Robotics and Automation*, Vol. 9, no. 6, pp. 709-722, 1993.
- [2] J. Butterfass, M. Grebenstein, H. Liu, and G. Hirzinger, "DLR-Hand II : Next Generation of a Dextrous Robot Hand," *IEEE Int. Conf. on Robotics and Automation*, pp. 109-114, 2001.
- [3] C. P. Fermo, C. V. D. Vincenzo, T. F. Bastos-Filho, and V. I. Dynniov, "Development of an Adaptative Framework for the Control of Upper Limb myoelectric prosthesis," *IEEE/EMBS Int. Conf.*, pp. 2402-2405, 2000.
- [4] H. P. Huang, Y. H. Liu, L. W. Liu, and C. S. Wong, "EMG Classification for Prehensile Posture Using Cascaded Architecture of Neural Networks with Self-Organizing Maps," *IEEE Int. Conf. on Robotics & Automation*, pp. 1497-1502, 2003.
- [5] H. P. Huang, Y. H. Liu, and C. S. Wong, "Automatic EMG Feature Evaluation for Controlling a Prosthetic Hand Using a Supervised Feature Mining Method : An Intelligent Approach," *IEEE Int. Conf. on Robotics & Automation* , pp. 220-225, 2003.
- [6] H. P. Huang and C. Y. Chen, "Development of a Myoelectric Discrimination System for a Multi-Degree Prosthetic Hand," *IEEE Int. Conf. on Robotics & Automation*, pp. 2392-2397, 1999.
- [7] S. C. Jacobsen, J. E. Wood, D. F. Knutti, and K. B. Biggers, "Design of the Utah/MIT Dexterous Hand," *IEEE Int. Conf. Robotics and Automation*, pp. 1520-1528, 1986.
- [8] K. Kiguchi, S. Kariya, T. Niwa, K. Watanabe, K. Izumi, and T. Fukuda, "Design of an Exoskeletal Robot for Human Elbow Motion Support," *IEEE/RSJ Int. Conf. on intelligent Robots and Systems*, pp. 353-361, 2000.
- [9] K. kiguchi, K. Iwami, M. Yasuda, K. Watanabe, and T. Fukuda, "An Exoskeletal Robot for Human Shoulder Joint Motion Assist," *IEEE/ASME Trans. on Mechatronics*, Vol. 8, no. 1, pp. 125-135, 2003.
- [10] K. kiguchi, K. Iwami, T. Saza, S. Kariya, K. Watanabe, K. Izumi, and T. Fukuda, "A Study of an Exoskeletal Robot for Human Shoulder Motion Support," *IEEE/RSJ Int. Conf. on intelligent Robots and Systems*, pp. 2111-2116, 2001.

- [11] K. Kiguchi, T. Tanaka, K. Watanabe, and T. Fukuda, "Exoskeleton for Human Upper-Limb Motion Support," *IEEE Int. Conf. on Robotics & Automation*, pp. 2206-2211, 2003.
- [12] K. Kiguchi, R. Esaki, T. Tsuruta, K. Watanabe, and T. Fukuda, "An Exoskeleton System for Elbow Joint Motion Rehabilitation," *IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics*, pp. 1228-1233, 2003.
- [13] K. Kiguchi, T. Tanaka, K. Watanabe, and T. Fukuda, "Design and Control of an Exoskeleton System for Human Upper-Limb Motion Assist," *IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics*, pp. 926-931, 2003.
- [14] M. Kaneko and T. Tsuji, "Realization of Enveloping Grasp," *IEEE Int. Conf. on Robotics and Automation*, pp. 84-87, 1997.
- [15] C. Lovchik and M. Diffler, "The Robonaut Hand: A Dexterous Robot Hand For Space," *IEEE Int. Conf. on Automation and Robotics*, pp. 907-912, 1999.
- [16] L. R. Lin and H. P. Huang, "Mechanism Design of a New Multifingered Robot Hand," *IEEE Int. Conf. on Robotics and Automation*, pp. 1471-1476, 1996.
- [17] H. Liu, T. Iberall, and G. A. Bekey, "The Multidimensional Quality of Task Requirements for Dexterous Robot Hand Control," *IEEE Int. Conf. Robotics Automat.*, pp. 452-456, 1989.
- [18] T. Mouri, H. Kawasaki, K. Yoshikawa, J. Takai, and S. Lto, "Anthropomorphic Robot Hand : Gifu Hand III," *IEEE Int. Conf. ICCAS*, pp. 1288-1293, 2002.
- [19] T. Okada, "Object-Handling System for Manual Industry," *IEEE Trans. Man and Cybern*, Vol. 9, no. 2, p.79, 1979.
- [20] R. Reiter, "Eine neue Elektrokunsthand," *Grenzgebiete der Medizin*, Vol. 1, no. 4, pp. 133-135. 1948.
- [21] J. K. Salisbury and J. J. Craig, "Articulated Hands : force control and kinematic issues," *Int. J. Robotics Res.*, Vol. 1, no 1, pp. 4-17, 1982.
- [22] Y. Tanaka, S. Noda, T. Tsuji, M. Maruishi, and O. Fukuda, "A Virtual Prosthetic Hand Using EMG Signals for fMRI Measurements," *IEEE/RSJ Int. Conf. on intelligent Robots and Systems*, pp. 2954-2959, 2004.
- [23] S. M. Basiouny, A. M. Bialy, M. F. Taher, A. H. Kandil, and M. E. Rasmy, "A Myoelectric Prosthesis Controller," *Department of Biomedical Engineering, Helwan University, Cairo, Egypt*, 2003.
- [24] M. A. Nussbaum, K. H. E. Kroemer, and L. Wojcik, "Finger Force Capability : Measurement and Prediction Using Anthropometric and Myoelectric Measures," *Master of Science in Industrial and Systems Engineering*, 1999.
- [25] D. A. Winter., "Biomechanics and Motor Control of Human Movement," *New York: John Wiley & Sons*, 1990.
- [26] W. P. Wang, "Intelligent Control of Cybernetic Below Elbow Prosthesis," 1993.

- [27] D. Gordon and E. Robertson, "Electromyography : Recording," *Biomechanics Laboratory*, School of Human Kinetics, University of Ottawa, Ottawa, CANADA, 2004.
- [28] C. J. D. Luca, "Surface Electromyography : Detection and Ecoding," *DelSys Incorporated*, 2002.
- [29] C. J. D. Luca, "The Use of Surface Electromyography In Biomechanics," *NeuroMuscular Research Center*, Boston University, 1993.
- [30] iWorx Physiologists' Toolbook, 2004.
- [31] [httpwww.moi.gov.tw/statmonthm3-05.xls](http://www.moi.gov.tw/statmonthm3-05.xls)
- [32] [http://www.k2.t.u-tokyo.ac.jp/members/namiki/lecture/lecture\\_6th.pdf](http://www.k2.t.u-tokyo.ac.jp/members/namiki/lecture/lecture_6th.pdf).
- [33] 林齊宣, *解剖學原理與實用*, 合記圖書出版社, 1997.
- [34] 許世昌, *新編解剖生理學*, 永大書局, 1994.
- [35] 羅華強, *訊號處理-MATLAB 的應用*, 全華科技圖書股份有限公司, 2003.
- [36] 東冠姣, 「發展一觸發式之平均多點表面電極肌電訊號即時處理系統」, 成大醫工, 碩士論文, 民國 87 年
- [37] 陳建宇, 「多電極式手部動作辨識系統」, 中原大學醫學工程研究所, 碩士論文, 民國 89 年
- [38] 鄭恆星, 「以肌電訊號控制外加扭矩以改善中風患者肘關節運動」, 成功大學機械工程研究所, 碩士論文, 民國 90 年
- [39] 陳嘉玲, 「中風病患腦部病變及運動控制模式與其預後之關係」, 長庚大學臨床醫學研究所, 碩士論文, 民國 88 年
- [40] 強生公司義肢目錄
- [41] 德林公司義肢目錄