柯立偉博士 (Li-Wei Ko, Ph. D.) 簡介

Assistant Professor

Department of Biological Science and Technology

Brain Research Center

National Chiao Tung University

Hsinchu, Taiwan

E-mail: lwko@mail.nctu.edu.tw

Education

- B.S. Department of Mathematics, National Chung Cheng University, Chiayi, Taiwan, 1997-2001
- M.S. Graduate Institute of Educational Measurement and Statistics, National Taichung University, Taichung, Taiwan, 2001-2004.
- Ph.D. Institute of Electrical Control Engineering, National Chiao Tung University, Hsinchu, Taiwan, 2004-2007.

Professional Positions

1. **Visiting Scholar**，Swartz Center for Computational Neuroscience, Institute for Neural Computation, University of California San Diego (UCSD)，2008 - 2012

2. **Associate Editor**, IEEE Transactions on Neural Networks **(Impact Factor: 2.952, Rank: 1/50, Top 2% of Computer Science, Hardware & Architecture)**, 2010/1 – 2011/12.

3. **Associate Editor**, IEEE Transactions on Neural Networks and Learning Systems, **(Impact Factor: 3.766, Rank: 1/50, Top 2% of Computer Science, Hardware & Architecture)**, 2012/1 – present.

4. **Associate Editor**, Journal of Neuroscience and Neuroengineering, 2012/1 – present, website: http://www.aspbs.com/jnsne/.

5. **Editorial Board**, ISRN Automotive Engineering, 2012/12 – present, website: http://www.hindawi.com/isrn/auto.eng/editors/.

6. **Organizing Member**, Control Engineering Program, National Science Council (NSC), Taiwan, 2009.

7. **Technical Special Session Organizer/Chair** of Science & Technologies for Healthcare and Medicine, the Fourth International Symposium on Medical Information and Communication Technology *(ISMICT 2010)*, Taipei, Taiwan, March 22-25, 2010.

8. **Special Sessions Co-chair** of Advances in Computational Intelligence for Brain-Computer

Interfaces and Cognitive Feedback I and II, 2010 IEEE World Congress on Computational Intelligence *(WCCI 2010)*, Barcelona, Spain, July 18-23, 2010.

9. **Session Chair** of Bayesian Models and Statistical Machine Learning Methods II, 2010 IEEE World Congress on Computational Intelligence *(WCCI 2010)*, Barcelona, Spain, July 18-23, 2010.

10. **Program Committee Member**, the 8th International Symposium on Neural Networks (*ISNN 2011*), Guilin, China, May 29 – June 1, 2011.

11. **Program Committee Member**, IEEE Symposium on Computational Intelligence, Cognitive Algorithms, Mind, and Brain (*CCMB 2011*), Paris, France, April 11 – 15, 2011.

12. **Publicity Co-Chair,** 2011 IEEE International Conference on Fuzzy Systems *(Fuzz-IEEE 2011)*, Taipei, Taiwan, June 27 - 30, 2011.

13. **Session Chair** of Fuzzy Control and Intelligent Systems, 2011 IEEE International Conference on Fuzzy Systems *(Fuzz-IEEE 2011)*, Taipei, Taiwan, June 27 - 30, 2011.

14. **Chair** of Invited Talk II: Prof. James Bezdek, 2011 IEEE International Conference on Fuzzy Systems *(Fuzz-IEEE 2011)*, Taipei, Taiwan, June 27 - 30, 2011.

15. **Chair** of Invited Talk III: Prof. Jim Keller, 2011 IEEE International Conference on Fuzzy Systems *(Fuzz-IEEE 2011)*, Taipei, Taiwan, June 27 - 30, 2011.

16. **Program Committee Member,** 2011 International Joint Conference on Neural Networks *(IJCNN 2011)*, San Jose, California, USA, July 31 - August 5, 2011.

17. **Session Chair** of Financial Applications, 2011 International Joint Conference on Neural Networks *(IJCNN 2011)*, San Jose, California, USA, July 31 - August 5, 2011.

18. **Session Chair** of Bioinformatics and Biomedical Applications, 2011 International Joint Conference on Neural Networks *(IJCNN 2011)*, San Jose, California, USA, July 31 - August 5, 2011.

19. **Technical Program Committee Member**, Sensor Networks and Telecare Systems Session, 2011 Symposium on Engineering, Medicine and Biology Applications *(SEMBA 2011)*, Kaohsiung, Taiwan, July 8 – 10, 2011.

20. **Technical Program Committee Member**, 2012 Symposium on Engineering, Medicine and Biology Applications *(SEMBA 2012)* and International Workshop on Bio-inspired Systems and Prosthetic Devices, Hsinchu, Taiwan, February 11 – 13, 2012.

21. **Website Chair**, 2014 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2014), Orlando, Florida, USA, December 9-12, 2014.

Research Interests

- Neural Engineering
- Neuro-informatics
- Brain Computer Interfaces (BCI)
- Computational Neuroscience
- Biomedical Signal Processing

- Tele-health Monitoring and Care Systems
- Neural Networks and Neuro-fuzzy Systems
- Machine Mining and Pattern Recognition

Honors & Awards

1. **Best Ph.D. Student Scholarship** from Department of Electrical and Control Engineering, National Chiao Tung University, 2005/8-2006/7.
2. **Best Ph.D. Student Scholarship** from Department of Electrical and Control Engineering, National Chiao Tung University, 2006/8-2007/7.
3. *Best Research Achievement Award*, the 2nd Executive Achievements Workshop of VGH-UST Research Projects, 2006.
4. *Best Poster Presentation Award*, the Annual Research Achievements Competition of NCTU CS Department, 2006.
5. *Best Research Achievement Award*, the 3rd Executive Achievements Workshop of VGH-UST Research Projects, 2007.
6. *Third Prize Award*, 2007 Embedded Software Design Contest, Ministry of Education, Taiwan.
7. *Second Prize Paper Award*, the 4th Executive Achievements Workshop of VGH-UST Research Projects, 2008.
8. *Third Prize Paper Award*, the 4th Executive Achievements Workshop of VGH-UST Research Projects, 2008.
9. *Third Prize Paper Award*, the 5th Executive Achievements Workshop of VGH-UST Research Projects, 2009.
10. *Best Paper Award*, *Biomedical Engineering Society 2009 Annual Symposium*, National Yang Ming University, Taipei, Taiwan, December 11-12, 2009.
11. *Second Prize Paper Award*, the 6th Executive Achievements Workshop of VGH-UST Research Projects, 2010.
12. *Third Prize Paper Award*, the 6th Executive Achievements Workshop of VGH-UST Research Projects, 2010.
13. *Best Annual Paper Award* of the Journal of Medical and Biology Engineering (JMBE), 2010.
14. *The Best Student Paper Award* of the International conference on Service and Interactive Robotics (Sircon), 2011.