

CURRICULUM VITAE

Wu-Hsiung Wu

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Education

- **Ph.D. degree** in Computer Science and Information Engineering, National Chung Cheng University, Chia-Yi, Taiwan. 2011
- **M.S. degree** in Computer Science and Information Engineering, National Chung Cheng University, Chia-Yi, Taiwan. 2003
- **B.S. degree** in Agricultural Mechanical Engineering, National Taiwan University, Taipei, Taiwan. 1986

Work Experience

- **Postdoctoral Fellow**, Department of Chemical Engineering, National Chung Cheng University, Chia-Yi, Taiwan (08/2011 ~07/2015)
- **Vice Principle**, Lien Bang Telecommunication Corporation, Department of Engineering, Taichung, Taiwan (1997/7 ~ 2000/5)
- **Senior Engineer**, Synet Technology Corporation, Department of Software, Taichung, Taiwan (1995/10 ~ 1997/6)
- **Engineer**, Chung Lien Transportation Corporation, Department of Information, Taichung, Taiwan (1995/5 ~ 1995/9)
- **Associate Engineer**, Institute for Information Industry, Department of Special System, Taipei, Taiwan (1992/4 ~ 1995/3)
- **Assistant Engineer**, Institute for Information Industry, Department of Education and Training, Taipei, Taiwan (1989/5 ~ 1992/3)

Publications

Journal Articles

1. Wu, H. Q., Cheng, M. L., Lai, J. M., Wu, H. H., Chen, M. C., Liu, W. H., Wu, W. H., Chang, P. M. H., Huang C. Y. F., Tsou, A. P., Shiao, M. S. and Wang, F. S.: **Flux balance analysis predicts Warburg-like effects of mouse hepatocyte deficient in miR-122a.** *PLoS Computational Biology*, 2017, **13**(7), e1005618.
2. Wu, W. H., Chao, C. C. and Wang, F. S.: **Reducing the effects of drug toxicity**

- on glutathione metabolism.** *Journal of the Taiwan Institute of Chemical Engineers*, 2016, **60**, 113-118.
3. Wang, F. S. and Wu, W. H.: **Optimal design of growth-coupled production strains using nested hybrid differential evolution**, *Journal of the Taiwan Institute of Chemical Engineers*, 2015, **54**, 57-63.
 4. Wu, P.J., Wu, W.H., Chen, T.C., Lin, K.T., Lai, J.M., Huang, C.Y. F. and Wang, F.S.: **Reconstruction and analysis of a signal transduction network using HeLa cell protein–protein interaction data**, *Journal of the Taiwan Institute of Chemical Engineers*, 2014, **45**(6), 2835-2842.
 5. Wu, W. H., Wang, F. S. and Chang, M. S.: **Multi-objective optimization of enzyme manipulations in metabolic networks considering resilience effects**, *BMC Systems Biology*, 2011, **5**(1):145.
 6. Wu, W. H., Wang, F. S. and Chang, M. S.: **Sensitivity analysis of dynamic biological systems with time-delays**, *BMC Bioinformatics*, 2010, **11**(Suppl 7):S12.
 7. Hsu, C.C., Li, H.P., Hung, Y.H., Leu, Y.W., Wu, W.H., Wang, F.S., Lee, K.D., Chang, P.J., Wu, C.S., Lu, Y.J., Huang, T. H.M., Chang, Y.S., and Hsiao, S.H.: **Targeted methylation of CMV and E1A viral promoters**, *Biochemical and Biophysical Research Communications*, 2010, **402**(2):228-234.
 8. Wu, W. H., Wang, F. S. and Chang, M. S.: **Dynamic sensitivity analysis of biological systems**, *BMC Bioinformatics*, 2008, **9**(Suppl 12):S17.

Book & Book Chapters

1. Wang, F.S. and Wu, W.H.: **Biomolecular Pathway Modeling**. In: *System Biology: Applications in Cancer Related Research*. Edited by Juan H-F, Huang H-C. Singapore: World Scientific Publishing; 2012: 55-84.
2. Wang, F.S. and Wu, W.H.: **Fuzzy Multiobjective Optimization for Metabolic Reaction Networks by Mixed-Integer Hybrid Differential Evolution**. In: *Multi-Objective Optimization in Chemical Engineering: Developments and Applications*. Edited by Rangaiah GP, Bonilla-Petriciolet A: John Wiley, Inc.; 2013: 217-245.

Honors and Awards

- Outstanding Paper Award, Taiwan Institute of Chemical Engineers (2015)