

Research and Teaching Experience

(XXX) Associate Professor, and Deputy
Director concurrently

Department of information, Yuanpei University of Medical
Technology

Experience over the years

- Institute of biomedical sciences, Academia Sinica: Management information system engineer, Research assistant)
- National Center for Genome medicine, Academia Sinica: Management information system engineer, Research assistant
- Trans World University: Part-time Lecturer
- National Taichung University of Science and Technology: Part-time Lecturer
- Yuanpei University of Medical Technology: Office of Research and Development , Planning Division: Leader (concurrently)

Academic expertise and research direction

- Expertise: Time series, Rough set theory ,Fuzzy theory, Soft Computing
- Financial big data research: stock market index forecasting, stock price forecast, forecasting the effect of the fluctuations in foreign stock prices to the Taiwan's stock price fluctuations, Taiwan's blue chip industry listed companies EPS forecast.
- Big data research in Social Sciences: evaluation of the students learning achievement on the Artificial Intelligence model building.
- Power forecasting: Taiwan power demand forecast (time series related applications).

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Academic expertise and research direction

(Continued)

- Medical image recognition: liver tumor imaging identification technology development, brain tumor imaging identification technology development.
- Biological information: gene sequence alignment, gene and disease association studies.
- Data mining tools development: clustering technology development, database null value evaluation technology development (data pre-processing application).

Summary of published research results

- Number of journal papers published: SSCI journal papers 3, SCI journal papers 14, EI journal 7, other class 4.
- In which the no. of papers by single author (myself): 5 (1 SSCI, 3 SCI, and other class 1)
- Economic Modelling (SSCI): 3 papers, Impact Factor:1.481
- Information Sciences (SCI): 1 paper, Impact Factor: 4.832
- Expert Systems With Applications (SCI): 3 papers, Impact Factor:3.928
- Applied Soft Computing (SCI): 3 papers, Impact Factor:3.541
- Neurocomputing (SCI): 1 paper, Impact Factor:3.317
- BMC Genetic (SCI): 1 paper, Impact Factor: 3.729
- Journal of Intelligent and Fuzzy Systems (SCI): 1 paper, Impact Factor: 1.261
- Neural Computing & Applications (SCI) : 1 paper, Impact Factor:2.505
- Optimization and Engineering (SCI) : 1 paper, Impact Factor:1.135
- Computational Intelligence (SCI) :1 paper, Impact Factor: 0.964
- Cybernetics and Systems (SCI) : 1 paper, Impact Factor: 1.434
- International Journal of Innovative Computing, Information and Control (EI) *5
- Journal of Applied Science and Engineering (EI): 2 paper
- African Journal of Business Management: 1 paper
- International Journal of Academic Research in Accounting, Finance and Management Sciences 2 papers
- International Journal of Academic Research in Business and Social Sciences 1 paper

Important Academic contributions and achievements:

- 1. “Neurocomputing”, “Economic Modelling”, “Applied Soft Computing,” “Journal of Intelligent & Fuzzy Systems”, ”Optimization and Engineering”, “Expert Systems With Applications”, ”Information Sciences” “computational Intelligence” **International Journal paper reviewer**
- 2. Host of the **2011 Workshop on information and management applications**
- 3. Host of a joint International Conference on 2011 for **i-Taiwan and the Innovation of Government Service** held at Tamkang University
- 4. Host of the **2013 National Information Communication Security and CIIP Promotion of the Summit Forum**
- 5. **The first International Conference on Medical and Health Informatics (ICMHI 2017)** May, 20-22., as the Head of preparation and seminar of student competition review committee for Yuanpei University of Medical Technology

Important Teaching contributions and achievements:

- 1. Guided undergraduate students on project competition and won the second place, and excellent work.
- 2. The person in charge of the students graduation topic competition and review (2011-2016) at Yuanpei University of Medical Technology.
- 3. Academic year 103 first semester: Selected for the excellent distance learning course, (supply chain management).
- 4. Academic year 104 second semester: Selected for the excellent distance learning courses (marketing management) .
- 5. Academic year 99-105: won the academic research awards at the Yuanpei University of Medical Technology consecutively.
- 6. Compiled a textbook: Introduction to Health Industry Management published by Wagner Publishing House.

Students exchange with the HTW in Germany

Hochschule für Technik und Wirtschaft (HTW) Berlin University of Applied Sciences

Provide students to Germany as the exchange students, German students also return to Taiwan to exchange and participate in international academic seminars.



Students exchange with the HTW in Germany



Established (Dr. Buy) e-commerce company to provide students with internships in school.



Implementation of Government Programs

- **The Ministry of Science and Technology programs:**
 - 1. Construct an ANFIS forecasting model based on price fluctuations of various stock markets 98-2218-E-264-004-
 - 2. Construct an hybrid ANFIS forecasting model based on AR and Beta coefficient integrated value to forecast EPS of leading industry 99-2410-H-264 -011 -
 - 3. Hybrid recurrent neural network forecasting model based on technical indicators and ordered weighted averaging 101-2221-E-264-002-
 - 4. Hybrid ANFIS model based on empirical mode decomposition for stock time series forecasting 102-2221-E-264-007-
 - 5. A hybrid classification model based on morphological segmentation for classifying MRI brain disease images. 104-2221-E-264-004-
 - 6. Image recognition model based on DWPT-RS and COM-RS Methods for classifying texture Images. 106-2221-E-264-001 -
- **The Ministry of Education programs**
 - Served as the director of the program of the 'Institute of Industries' for academic years 103-106, in which the **Ministry of Education** subsidizes the Universities of Science and Technology and the Institutes of Technology to establish it.
- **The Ministry of Economic Affairs program**
 - Academic year 105, the academia assists small and medium enterprises care plan, plan name: Mao-yun precision industrial process improvement assessment plan - from the productivity perspective 4.0.

Production Industry and Education Institutions Cooperation Programs

- 1. E - commerce platform construction project (Zhang Xian Corporation 99.10.20- 100.10.19)
- 2. Accounting system construction project (Zhang Xian Corporation 100.10.22- 101.10.21)
- 3. Important information infrastructure protection policy promotion research project (Institute for information industry 101/9/10-102/3/30)
- 4. Big data technology implement project (Golden Smart Home Technology Corporation 105.10.1 - 106.3.31)
- 5. On line & off line marketing platform construction project (Skuld Equation Information Service Corporation 106.07.1-107.12.31)

Patents

- 1. Alarm clock Heath Cup (Utility PATENT M390719)
- 2. Smart Phone anti-satyr electric shock device (Utility PATENT M413111)
- 3. The watch fan (Utility PATENT M417580)
- 4. **Portable cosmetic cotton rods** (Utility PATENT M408351)
- 5. **Quantitative extruder** (Utility PATENT M415119)
- 6. Power-free automatic toothbrush (Utility PATENT M412677)
- 7. Chair type weight meter (Utility PATENT M429090)
- 8. Screen fan (Utility PATENT M421989)
- 9. Rotating contact lens cleaning bottle with fastening clockwork (Utility PATENT M421819)
- 10. Power free small suspension fan (Utility PATENT M421990)
- 11. **Smart wash basin** (Utility PATENT M428744)
- 12. Induction fan (Utility PATENT M491737)

Professional Licenses

- 1.CIW v5 ASSOCIATE (**Information security**)
- 2.CIW PROFESSIONAL (**Information security**)
- 3.CIW SECURITY ANALYST (**Information security**)
- 4.CIW CERTIFIED INSTRUCTOR (**Information security**)
- 5.EC-Council: Certified Ethical Hacker (**Information security**)
- 6.EC-Council: Security 5 (**Information security**)
- 7.Adobe ACA: Visual Communication Photoshop CS3
- 8.Adobe ACA: Web Communication Dreamweaver CS3
- 9.Adobe ACA: Rich Media Communication Flash CS3
- 10.IC3 (Internet and Computing Core Certification)
- 11.MCAS: Microsoft Office 2007 Master
- 12.MCAS: Microsoft Office Word 2007
- 13.MCAS: Microsoft Office Excel 2007
- 14.MCAS: Microsoft Office Access 2007
- 15.MCAS: Microsoft Office PowerPoint 2007
- 16.MCAS: Microsoft Office Outlook 2007
- 17.Oracle Certified Professional(OCP) (**Database management**)
- 18.Red Hat Certified Engineer (RHCE) (RedHat **Linux System management**)
- 19.Microsoft Certified Professional(MSSQL) (**Database management**)

Thanks for Your Attention

Q & A