

<b>Rong-Jyue Fang (方榮爵)(Retired 2017/Jan.)</b>		
Department of Information Management Southern Taiwan University of Science and Technology No. 1, Nan-Tai Street, Yung-kang Dist., Tainan 71005, Taiwan	Office: T1143 TEL: 886-6-2533131 ext. 8343 FAX: 886-6-2541621 E-mail: rxf26@stust.edu.tw	

### **Education**

- PhD, Vocational Industrial Education with emphasis on Educational Technology, The Pennsylvania State University, August 1984.
- Master, Technology Education with emphasis on Communication Technology, Eastern Illinois University, May 1980.
- M.Ed. Industrial Education with emphasis on Electronics technology, National Taiwan Normal University, 1979.
- B.Ed. Industrial Education with emphasis on Electronics Technology, Provincial Kaohsiung Teachers' College, June 1974.

### **Area of Specialty**

- Multimedia Technology, Research Methodology, Knowledge Management, Computer Interfacing, Microcontroller, Microprocessor

### **Academic Experience**

- Chair Professor, Department of Information Management, College of Business, Southern Taiwan University of Science and Technology, Taiwan. 2005/8 to Present
- Professor, Department of Industrial Technology Education, College of Technology, National Kaohsiung Normal University, Kaohsiung, Taiwan. 2000/8 to 2005/8
- Visiting Scholar/Professor, Funded by National Science Council,  
University of California, Berkeley, CA. U.S.A. 2009/6 to 2009/10
- Visiting Scholar/Professor, Fulbright Senior Scholar H.R.D. Department, The Pennsylvania State University, Univ. Park. PA. U.S.A. 2003/6 to 2003/10
- Visiting Scholar/Professor, Funded by National Science Council, Media Lab, Massachusetts Institute of Technology, Cambridge, Mass. U.S.A. 2000/8 to 2001/1
- Visiting Scholar/Professor, Funded by National Science Council, Department of Mechanical Manufacturing & Software Engineering, Napier Univ. Scotland, United Kingdom. 1993/6 to 1993/10
- Visiting Scholar/Professor, Funded by National Science Council, Department of Instructional System technology, University of Oregon, Eugene, OR. U.S.A. 1991/6 to 1991/9

- Associate Professor, Department of Industrial Technology Education, National Kaohsiung Normal University, Kaohsiung, Taiwan. 1984/8 to 1989/8
- Research Assistant, The Pennsylvania State University, Pennsylvania, U.S.A. 1980/8 to 1984/8
- Teaching Assistant / Audio Video Center Technician, Eastern Illinois State University, Charleston, Il. U.S.A. 1979/8 to 1980/8
- Electronics Teacher, The His-Lo Vocational Senior High School, His-Lo, Yin-Lin County, Taiwan. 1977/8 to 1978/8
- Teaching Assistant, Provincial Kaohsiung Teachers' College, Kaohsiung, Taiwan. 1974/8 to 1975

## **Publications**

### **Journal Papers:**

1. Wircenski, J.L., Fang, R., Feng, D., Just, F., Tilton, N.L., Wade, W.E., Williams, K.D., 1982.06, Implementing School-to-Work Transition Skills for Disadvantaged Youth. Pennsylvania Department of Education, PA: Vocational-Technical Research Report, 22(3).
2. Fang, Rong-Jyue, 1982.11, Main Factors Which Affect Youth Attitudes Toward Work, Occupational Educational Forum, pp.72-90.
3. Fang, Rong-Jyue, 1984.06, Developing A Model For Analyzing Administrators' Professional Commitment In Pennsylvania Postsecondary Vocational Technical Schools. Pennsylvania Department of Education, PA: Vocational-Technical Education Research Report, 22(3).
4. 方榮爵， 1985.01, 資訊工業對未來教育的影響，師院院刊， pp.9-12 頁。
5. Fang, Rong-Jyue, 1985.03, Developing A Model For Analyzing Administrators' Professional Commitment In Pennsylvania Postsecondary Vocational Technical Schools. Journal of National Kaohsiung Teachers' College, 13.
6. 方榮爵， 1985.12, 電腦在未來中等學校輔導活動上的應用，測驗輔導雜誌，中國測驗學會，pp.1338-1340 頁。
7. 方榮爵， 1985, 由新修訂國中工藝課程談使工藝教學正常化，教學方法問題專輯（三）教育部，3 期， pp.94-106 頁。
8. Fang, Rong-Jyue, 1986.03, An analysis of Administrators' Professional Satisfaction in Pennsylvania Postsecondary Vocational Technical Schools. Journal of National Kaohsiung Teachers' College, 14.
9. 方榮爵，1986 研究設計中統計技法的應用，工業教育系刊 14 期，pp.27-31 頁。
10. 方榮爵，1988 電腦在工業教育上的應用，臺灣教育月刊 450 期，PP.17-22;28 頁。
11. 方榮爵，1987，電腦輔助教學，空軍官校教學專業職能講習，民國 76 年 11 月 9 日，pp. 1-19。

12. 方榮爵，1987，S A S 套裝軟體介紹，教育部電算中心套裝軟體講習會，民國 76 年 3 月 5-6 日， pp. 1-32。
13. 方榮爵(民 77)，1988.03，我國職業訓練師專業滿意程度調查研究，登文書局。
14. 方榮爵，1989，工藝教師如何調適科技快速變遷所賦予的新責任，中學工藝教育月刊，第二十二卷，第一期，中華民國七十八年一月三十一日。
15. 方榮爵，1989，辦公室自動化，台灣省政府教育廳廳屬機關學校七十八年度管考業務研習會，民國 78 年 3 月 8 日暨 22 日， pp.1-68。
16. 方榮爵(民 79)，交談式影碟教學系統：畫面重疊處理，國立高雄師範大學學報第一期，民國七十九年五月。
17. 郭興家、方榮爵(民 79)，彈性製造系統的整合性教學法研究，國立高雄師範大學學報第一期，民國七十九年五月。
18. 方榮爵(民 79)，交談式影碟教學系統設計原則，國立高雄師範大學工藝教育系刊，民國七十九年六月。
19. 方榮爵，1990，S A S 套裝軟體介紹，教育部學術研究資訊服務套裝程式研討會，民國 79 年 9 月 12-14 日， pp. 1-115。
20. 方榮爵(民 80)，交談式影碟教學系統設計，國立高雄師範大學學報第二期，民國八十年四月。
21. 方榮爵(民 80)，交談式影碟教學系統設計原則，國立高雄師範大學工藝教育系刊，民國八十年六月。
22. 方榮爵，1991，『科技教育課程』革新動向—序列報導之一，中學工藝教育月刊，第二十四卷第六期，中華民國八十年六月三十日。
23. 方榮爵(民 80)，國民中學工藝課本第四冊(電工)，高雄市：黎明出版社，民國八十年八月。
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25. 方榮爵，1992，影像壓縮技術研究，工業教育系刊第十六期，中華民國八十一年六月。
26. 方榮爵，1993，影像處理。國立高雄師範大學學報，第四期。
27. 方榮爵(民 82)，影像處理，國立高雄師範大學學報第四期，民國八十二年四月。
28. 方榮爵，1994，科技發展與環境保護的策略，環境科技教育季刊，中華民國八十三年五月。
29. 方榮爵，從科技發展談教育改革，國教之聲，臺東師範學院出版，30(2)，民國八十五年十二月二十五日。
30. 方榮爵，工業技職教育與通識教育，技術及職教育百科全書——工業類技職教育，師友出版社，民國九十年。
31. 方榮爵，小學階段科學與科技整合教學效果，高雄師大學報，民國九十年。
32. 方榮爵，國家科技政策與國家創新系統，高雄師大學報，第十四期，民國九十

二年。

33. 趙世範、方榮爵 應用立體電腦動畫技術建置高職製圖課教學網站研究，高雄師大學報，第十五期，民國九十三年。
34. 方榮爵、張美珍 台灣中草藥產業之現況與未來發展探析，高雄師大學報，第十八期，民國九十四年六月。
35. 方榮爵 科技專案學習，生活科技教育月刊，2006年39卷第三期。
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<http://www.worldses.org/journals/information/information-2008.htm>
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<http://www.worldses.org/journals/information/information-2008.htm>
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40. Fang, R.-J., Yang, H.-J., Lin, C.-C., Yang, H.-H., & Yu, J.-C. (2006). A Comparison of Applying the Theory of Reasoned Action and the Theory of Planned Behavior on Predicting On-line KT Intention. WSEAS Transactions on Mathematics, 6(2), 432-438. (EI)  
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44. Fang, R. J., Teng, C. C., & Chen, C. C. (2007 Spring) How Taiwanese and Americans think about technology, Journal of Technology Education, 18(2). (NSC

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45. Rong-Jyue Fang, Hung-Jen Yang, Hua- Lin Tsai, ChiI-Jen Lee, Yong-He Luo, Chien-Chung Lin (2007). Global d-Learning through Internet for grades 1-9 Students – Aviation Technology Education. WSEAS Transactions on Advances in Engineering Education, 4(1), 17-24, ISSN 179-1979. (EI)  
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<http://www.worldses.org/journals/systems/systems-2008.htm>
  56. Rong-Jyue Fang, Hung Jen Yang, Hua Lin Tsai, Chi Jen Lee, Tien-Sheng Tsai, Dai-Hua Li A Type of Technological Course with using Information Technology, International Journal of Education and Information Technologies, 1(4), pp. 181~187, 2007.
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  58. Rong-Jyue Fang, Hung -Jen Yang, Hua- Lin Tsai, Chi -Jen Lee The utilization of E-learning in an elementary school-- Take PHS phones as example, International Journal of Education and Information Technologies, 1(4), pp. 207~214, 2007.
  59. Rong-Jyue Fang, Hung Jen Yang, Hua Lin Tsai, Chi Jen Lee, Dai-Hua Li, The Digital Instrument Support Teacher's Instructional Innovation, International Journal of Education and Information Technologies, 1(4), pp. 215~222, 2007.
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  61. 方榮爵、鄧佳茜、陳志嘉 台美民眾科技觀點之調查與比較，調查研究－方法與應用，中央研究院·調查研究專題中心，2007年10月第22期。
  62. 張美珍、方榮爵 科技博物，2008年12卷第一期。
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## **Books**

1. 江英火、方榮爵 (1978), 交流理論, 徐氏基金會。
2. 方榮爵 (1985) SAS 訓練手冊, 教育部電算中心。
3. 方榮爵 (1986) SPSS 訓練手冊, 教育部電算中心。
4. 方榮爵 (1987) 辦公室自動化, 台灣省政府教育廳。
5. 方榮爵 (1988) 影像處理, 高雄師大工教系。
6. 方榮爵 (1989) 交談式影像教學系統, 高雄師大工教系。
7. 方榮爵 (1989) 職業訓練模式研究, 高雄師大工教系。
8. 方榮爵 (1990) 交談式遠距教學系統, 高雄師大工教系。

## **Dissertation**

1. Fang, Rong-Jyue, 1984.06, Developing a Model for Analyzing Administrators' Professional Commitment in Pennsylvania Postsecondary Vocational Technical Schools. Pennsylvania Department of Education, PA: Vocational-Technical Education Research Report, 22(3).Unpublished Doctoral Dissertation.

## **Grants**

1. 溫嘉榮、林建仲、方榮爵 (民 76), 多媒體電腦輔助教學系統發展研究, 行政院國家科學委員會, 計畫編號 NSC-76-0111-S-017-01, 民國七十六年八月。
2. 方榮爵、楊錦潭、溫嘉榮 (民 77), 交談式影碟教學系統研究: 畫面重疊技巧, 行政院國家科學委員會, 計畫編號 NSC-77-0111-S-017-04, 民國七十七年八月。
3. 曾國鴻、方榮爵 (民 77), 工業科目教學實習課程內涵與模擬教學情境之研究, 行政院國家科學委員會, 計畫編號 NSC-77-0301-H-017-01, 民國七十七年六月。
4. 方榮爵、林建仲 (民 78), 專科學校教師教學評量手冊, 教育部技職司, 民國七十八年八月。康自立主編, P. 91-102, 171-173。
5. 郭興家、方榮爵 (民 78), 彈性製造系統的整合性教學法研究, 行政院國家科學委員會, 計畫編號 NSC-78-0111-S-017-06, 民國七十八年八月。
6. 方榮爵、林建仲 (民 78), 交談式影碟教學系統研究: 軟體發展技巧, 行政院國家科學委員會, 計畫編號 NSC-78-0111-S-017-03, 民國七十八年八月。
7. 方榮爵、謝士英 (民 79), 交談式影碟教學系統研究: 課體教學實驗, 行政院國家科學委員會, 計畫編號 NSC-79-0111-S-017-01, 民國七十九年八月。
8. 方榮爵、楊錦潭 (民 80), 交談式影碟教學系統研究: 影像壓縮技術, 行政院國家科學委員會, 計畫編號 NSC-80-0111-S-017-04, 民國八十年八月。
9. 郭興家、方榮爵、林建仲 (民 80), C A I 學習程序控制之研究, 行政院國家

- 科學委員會，計畫編號 NSC-80-0111-S-017-05，民國八十年十二月。
10. 方榮爵 (民 81)，交談式多媒體教學系統之控制介面設計研究，行政院國家科學委員會，計畫編號 NSC-81-0111-S-017-04，民國八十一年八月。
  11. 方榮爵 (民 82)，交談式多媒體教學系統——光碟影像顯示速度研究，行政院國家科學委員會，計畫編號 NSC-82-0111-S-017-04，民國八十二年八月。
  12. 方榮爵、蔡東鐘、施能木 (民 86)，國小科技與資訊整合教學模式之探討，行政院國家科學委員會，計畫編號 NSC-86-2511-S-143-002，民國八十六年八月。
  13. 方榮爵、曾國鴻 (民 87)，科技素養指標研究：科技素養整合思考能力評量研究。行政院國家科學委員會，計畫編號 NSC87-2511-S-143-002。
  14. 方榮爵 (民 88)，科技素養整合思考能力評量研究——科技素養整合思考能力評量研究，計畫編號 NSC88-2516-S-143-002。
  15. 方榮爵 (民 89)，以科技為核心的統整教學對國小學童創造力發展之研究，行政院國家科學委員會，計畫編號 NSC-2519-S-143-001。
  16. 方榮爵 (民 91)，應用立體動畫技術輔助高職圖學課程教學之研究(1/3)，行政院國家科學委員會，計畫編號 NSC 91-2516-S-017-002-。
  17. 方榮爵 (民 92)，應用立體動畫技術輔助高職圖學課程教學之研究(2/3)，行政院國家科學委員會，計畫編號 NSC 92-2516-S-017-001-。
  18. 方榮爵 (民 93)，應用立體動畫技術輔助高職圖學課程教學之研究(3/3)，行政院國家科學委員會，計畫編號 NSC 93-2516-S-017-001-。
  19. 方榮爵(民 94)，輔助奈米科技抽象概念教學之視覺化數位內容建置研究(1/3)，行政院國家科學委員會，計畫編號 NSC 94-2516-S-218-003-。
  20. 鄭金謀、方榮爵 (民 94)，在大專健康科技素養教育中開發學生創新能力之理論與實證研究 (1/2)，行政院國家科學委員會，計畫編號 NSC 94-2516-S-242-004-。
  21. 方榮爵(民 95)，輔助奈米科技抽象概念教學之視覺化數位內容建置研究(2/3)，行政院國家科學委員會，計畫編號 NSC 95-2516-S-218-001-。
  22. 鄭金謀、方榮爵 (民 95)，在大專健康科技素養教育中開發學生創新能力之理論與實證研究 (2/2)，行政院國家科學委員會，計畫編號 NSC 95-2516-S-242-002-。
  23. 張儀興、方榮爵 (民 95)，導入知識管理及智慧型代理人於數位學習平台之研究，行政院國家科學委員會，計畫編號 NSC 95-2520-S-218-002-。
  24. 方榮爵(民 96)，輔助奈米科技抽象概念教學之視覺化數位內容建置研究(3/3)，行政院國家科學委員會，計畫編號 NSC 96-2516-S-218-001-。
  25. 鄭金謀、方榮爵 (民 96)，技職校院學生健康科技知識分享與學習模型之建構及嵌入式教學實驗研究，行政院國家科學委員會，計畫編號 NSC 96-2516-S-242-002-。
  26. 張儀興、方榮爵 (民 96)，設計及完成一有效的線上適性化學習管理系統，行

- 政院國家科學委員會，計畫編號 NSC 96-2520-S-218-001-。
27. 方榮爵、楊宏仁、楊雪華、陳彩鳳 (民 97)，技專人力之培育整合計畫—技專工程科技研究人力之專業網絡培育計畫，行政院國家科學委員會，計畫編號 NSC 97-2511-S-218-004-MY2。
  28. 方榮爵、楊宏仁、楊雪華、陳彩鳳 (民 98)，技專人力之培育整合計畫—技專工程科技研究人力之專業網絡培育計畫，行政院國家科學委員會，計畫編號 NSC 98-2511-S-218-004-MY2。
  29. 方榮爵、蔡華齡 (民 99)，運用中小學科技教育內涵建構多媒體認知學習因素之研究計畫報告，行政院國家科學委員會，計畫編號 NSC 99—2511—S—218—002。
  30. 張儀興、方榮爵 (民 102)，基於學習風格之適性化擴增實境學習系統:以古蹟學習為例，行政院國家科學委員會，計畫編號 NSC 102-2511-S-218-001-。

### **Honors and Awards**

- 1979~1980 Exchange Student of NKNU & EIU
- 1979~1980 National Dean's List 3rd Edition. U.S.A.
- 1987~1988 Ministry of Education -- Information Month, Advisory Award for Students Win The National Software Second Prize and Excellent Performance
- 1989~1990 NKNU Best Teacher of the Year Award
- 1989~1990 Ministry of Education -- Information Month, Advisory Award for Students Win The National Software Champion and Excellent Performance
- 1990~1991 Ministry of Education -- Information Month, Advisory Award for Students Win The National Software Second Prize and Excellent Performance
- 1990~1991 NKNU Best Teacher of the Year Award
- 1991~1992 Ministry of Education -- Information Month, Advisory Award for Students Win The National Software Champion and Excellent Performance
- 1991~1992 NKNU Excellent Research Award
- 1993.12.08 Provincial Tainan Second Senior High School, First Honorary Alumni Award in Eighty Years.
- 1995 “Who is Who in Asia” and “Who is Who in Taiwan, R.O.C.”
- 1997.3. ITEA (International Technology Education Association) (Leaders to Watch)
- 1998.3. ITEA International Lunch, Key Note Speaker
- 1999.11.16 Professional Achievement Award – Industrial Technology Education
- 2000 Preparation Office Director of East Taiwan University
- 2000 “Who is who” in Taiwan, R.O.C.
- 2003 Fulbright Senior Scholar Award
- 2007 Asian’s Admirable Achievers
- 2008.4.6~8 World Scientific & Engineering Academic Society (WSEAS)

HangZhou Conference, Plenary Speaker

- 2008 Asian/ American Who's Who
- 2009.6.16~2009.9.16 University of California at Berkeley, Visiting Scholar, Funded by National Science Council, ROC.

### **Academic Service**

- Served as a President, National Tai-tung Teachers' College, 1994-2000
- Served as Dean, 2000-2001
- Served as a chair for the Industrial Technology Department, 1992-1994.
- Served as a member of the University Committee, 1989-2005.
- Served as a committee member for the Meetings of University Affairs, 1989-2005.
- Served as a representative for the Meetings of College Affairs, 1989-2005.
- Served as a member for the Committee of Department, 1989-2005.
- Served as a member for various committees in Department, 1989-2005.
- Served as Chairman of Industrial Technology Education Department Alumni Association Committee, 1988-1992.
- Served as Chairman of NKNU Faculties Association Committee, 1989-1990
- Served as Director of National Tai-Tung University Preparation Office, 2000

### **Professional Certifications**

1. Professor License #5831
2. Associate Professor License #9183
3. Vocational Senior High School Electronics Teacher, License #76212

### **Professional Experience**

1. President, National Tai-Tung Teachers' College, Tai-Tung City, Taiwan, 1994/8 to 2000/8
2. Dean, Office of Research & Development, National Kaohsiung Normal University, Kaohsiung, Taiwan, 2000/8 to 2001/11
3. Chairman/ Professor, Industrial Technology Education, College of Technology, National Kaohsiung Normal University, Kaohsiung, Taiwan, 1992/11 to 1994/8
4. Director/ Computer Center, National Kaohsiung Normal University, Kaohsiung, Taiwan, 1985/8 to 1987/8
5. Teaching Assistant / Audio Video Center Technician, Eastern Illinois State University, Charleston, Il. U.S.A., 1979/8 to 1980/8

### **Professional Service**

1. Served as a peer reviewer of research proposal screen committee for National Science Council for Annual Science Projects, 1986-2009.
2. Served as a peer reviewer of research proposal revision committee for National



Science Council, 1995-1997, 2000-2006.

3. Served as a member of Editorial Board for “Journal of NKNU”, (1986-2005) (7 years in above time span).
4. Served as an academic board member for National Industrial Technology Education Association, 1994-2011.
5. Served as a Nine Year Education board member for the Ministry of Education Association, 1994-2000.

### **COMMUNITY SERVICES**

1. Served as a training instructor for the Vocational Training Bureau, Labor Committee, Executive Yuan, 1985-1988.
2. Served as a training instructor for the China Steel Cooperation Company, Kaohsiung, 1987-1989.
3. Served as a committee member of Ministry of Education for the University Accreditations Evaluation. 2000, 2005, 2011
4. Acted as a keynote speaker, session chair or invited speaker for various Industrial Technology Education Conferences, 2000-2006.

### **CURRENT RESEARCH AREAS OF INTEREST**

1. Development of 3 D Interactive Model Web.
2. Mobile Learning Systems.
3. Interactive Multimedia Instructional System.
4. Interactive Distance Learning.
5. Computer Assisted Interactive Learning.
6. Mobile Learning and E-Learning.

### **RESEARCH GRANTS (2002-2010)**

1. “The Application of 3D Computer Animation Technique in Vocational High School Drawing”, funded by National Science Council, 2002-2004.
2. “Construct Perceptual Digital Learning Content to Assist Abstract Concept Instruction in a Nano Technology Setting”, funded by National Science Council, 2005-2007.
3. “Develop Students’ Innovative Power in College Health Technology Literacy Education – A Theoretical and Empirical Study”, funded by National Science Council, 2005-2006.
4. “Induce Knowledge Management and Intelligent Agent in A Digital Learning Platform”, funded by National Science Council, 2006.
5. “Integrate Plan for collegiate and technical professional researchers networking cultivation of engineering technology”, funded by National Science Council, 2008-2009.

6. “Utilize the content of Primary and Junior technology to construct the study factors of multimedia cognition”, funded by National Science Council, 2010.