



## 基本資料 | Personal Information

Name | Fu-Min Chang

Job title | Professor

Academic qualification | PhD, National  
Chung-Hsing University, Taiwan

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Areas of Expertise | Database system,  
Financial Information Management,  
Computer network engineering, Commercial  
programming

## 學校經歷 | Education

Ph.D. Department of Applied Mathematics, National Chung-Hsing  
University

Master Department of Applied Mathematics, National Chung-Hsing  
University

Bachelor Department of Applied Mathematics, National Chung-Hsing  
University

## 工作經歷 | Work Experience

Associate Professor, Department of Finance, Chaoyang University of

Technology

Assistant Professor, Department of Finance, Chaoyang University of

Technology

Lecturer, Department of Finance, Chaoyang University of Technology

## 個人著作 | Personal Authorship

期刊論文

Shiang-Yu Hu, Yu-Cheng Tsai, Shang-Juh Kao, Fu-Min Chang\* (2022, Jun). Using non-dominated sorting genetic algorithm-ii for charging station deployment in wireless rechargeable sensor networks. International Journal of Applied Science and Engineering, 19, 2021352. 本人為通訊作者.

Ming-Tsung Kao, Dian-Ye Sung, Shang-Juh Kao, Fu-Min Chang\* (2022, May). A Novel Two-Stage Deep Learning Structure for Network Flow Anomaly Detection. Electronics , 11, 1531. 本人為通訊作者.

Ming-Tsung Kao, Shang-Juh Kao, Hsueh-Wen Tseng, Fu-Min Chang\* (2022, May). A Rapid Deployment Mechanism of Forwarding Rules for Reactive Mode SDN Networks. Symmetry, 14, 1026. 本人為通訊作者.

Tzu-Hsin Liu, Fu-Min Chang, Jau-Chuan Ke, Shey-Huei Sheu (2022, Apr). Optimization of Retrial Queue with Unreliable Servers Subject to Imperfect Coverage and Reboot Delay. Quality Technology & Quantitative Management, 19:4, 428-453.

Tzu Hsin Liu, Ya Ling Huang, Yih-Bey Lin, Fu-Min Chang\* (2022, Mar).

Cost-Benefit Analysis of a Standby Retrial System with an Unreliable Server and Switching Failure. *Computation*, 10, 48. 本人為通訊作者.

Wei-Cheng Wu, Shang-Juh Kao, Fu-Min Chang\* (2022, Mar). An Efficient

VNF Deployment Scheme for SFC using Deep Q-Network. *International Journal of Communication Systems*, 35:e5084. 本人為通訊作者.

Tzu-Hsin Liu, Chih-Meng Wang, Yih-Bey Lin, Fu-Min Chang\* (2021, Dec).

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Chien-Hung Chen, Nicholas Lee, Fu-Min Chang and Li-Peng Lan (2021,

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Tzu-Hsin Liu, Jau-Chuan Ke, Ching-Chang Kuo and Fu-Min Chang (2021,

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Jul). Delay threshold scheduling algorithm for LTE downlink systems. *International Journal of Wireless and Mobile Computing*, Vol.18 No.4, 320-331. 本人為第一作者.

Yu-Hong Liu, Syuan-Rong Dai, Fu-Min Chang, Yih-Bey Lin and Nicholas Rueilin Lee (2020, Jun). Does the Investor Sentiment Affect the Stock Returns in Taiwan' s Stock Market under Different Market States?. Journal of Applied Finance & Banking, Vol. 10, No. 5, 41-59.

Fu-Min Chang\* (2020, Apr). Optimization analysis of management operation for a server farm. Quality Technology and Quantitative Management, 17:3, 307-318. 本人為第一作者、通訊作者.

Chu-Heng Lee, Shang -Juh Kao, Fu-Min Chang\* (2020, Feb). LSTM-based ACB scheme for machine type communications in LTE-A networks. Computer Communications, Vol.152, 296-304. 本人為通訊作者.

Shang-Juh Kao, Kuo-Chan Hsiao, Fu-Min Chang\* (2019, Oct). Radio Resource Allocation Using Genetic Algorithm in Heterogeneous Networks. International Journal of Communication Systems, Volume, Issue 15, e4089. 本人為通訊作者.

Tsung-Yin Wang, Tzu-Hsin Liu, Fu-Min Chang\* (2019, Sep). On a Geo/G/1 Queue with Disastrous and Non-disastrous Failures. Queueing Models and Service Management, Vol 2, No. 2, pp. 202-221. 本人為通訊作者.

Chia-Jung Chang, Fu-Min Chang, Jau-Chuan Ke (2019, Mar). Optimal Power Consumption Analysis of a Load-dependent Server Activation Policy for a Data Service Center. Computers and Industrial Engineering, Volume 130, Pages 745-756. (SCI).

Shang-Juh Kao, Sin-Yu Luo, Ming-Tsung Kao, Fu-Min Chang\* (2019, Mar). D2D communications with subchannel reusing for throughput-guaranteed relay selection in LTE. *International Journal of Communication Systems*, Vol.32, No.6, pp.1-14. (SCI). 本人為通訊作者.

Jim-Chen Ko, Fu-Min Chang\*, Yu-Hao Chen, Yih-Bey Lin, Nicholas Lee, (2019, Feb). Does Air Pollution Cause the Retail Investor ' s Disposition Effect in Taiwan Mutual Fund Markets?. *International Journal of Energy Economics and Policy*, 9(2), 75-82. 本人為通訊作者.

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Yih-Bey Lin, Fu-Min Chang, Yu-Hin Leung, Jui-Feng Lin, Nicholas Lee (2018, Apr). Do European Central Bank Asset Purchase Programmes Matter for the Euro-area Stock Markets and Brent Crude Market?., *International Journal of Energy Economics and Policy*, VOL 8, NO 3, 115-120.

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server retrieval queue with customer feedback and impatience. *Applied Mathematical Modelling*, 55, 171–182. (SCI). 本人為第一作者.

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Fu-Min Chang, Hsiu-Lang Wang, Wei-Hong You and Shang-Juh Kao (2017, Nov). A signal fading-aware and data transmission estimation assisted handover mechanism in LTE networks. *International Journal of Wireless and Mobile Computing*, Vol. 13, No. 2. (Scopus). 本人為第一作者.

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Chung Yeh, Yu-Tang Lee\*, Chia-Jung Chang, Fu-Min Chang (2017, Feb). Analysis of a Two-Phase Queue System with F-policy. *Quality Technology and Quantitative Management*, 14(2), 178-194. (SCI).

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王言 張佑廷 柯俊禎 張阜民 (聯絡作者), "善盡企業社會責任對公司治理、獲利能力關係之探討," 財金論文叢刊, 第二十七期 · 34-49, Dec, 2017.

Nicholas Ruei-Lin Lee, Fu-Min Chang, Kun-Teng Lee and Hsiang-Jane Su,, "Is the Corporate Default Probability Factor Systematic and Priced in Taiwan's Stock Market?," Information,, Vol.20, No.10(A), pp.7109-7116.(Scopus), Oct, 2017.

王言 張阜民 (聯絡作者) 呂芝倚 柯俊禎, "探討企業社會責任執行與公司營運績效之相關研究-以資訊通訊產業 ( ICT ) 為例," 財金論文叢刊, 第二十五期 · 62-80, Dec, 2016.

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Yu-Hsin Cheng, Shang-Juh, Kao, Fu-Min Chang (聯絡作者), "A Fast Safety Message Transmission Mechanism for Heterogeneous Vehicular

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Fu-Min Chang (第一作者), Shang-Juh; Kao, Ying-Shao Liu, Hsiu-Lang Wang, "An interference and latency aware uplink scheduling mechanism in IEEE 802.16j networks," *Journal of the Chinese Institute of Engineers*, Vol. 38, No. 2, 159–168, (SCI, Scopus), Feb, 2015.

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張阜民(第一作者) 王言 黃少暘 柯俊禎, "價值型選股策略之另類思維：以技術分析運用在我國上市公司價值型選股策略之實證," *財金論文叢刊*, 第20期, 33-58, Jun, 2014.



張阜民(第一作者) 王秀郎\* 胡似英 高勝助, "長程演進網路下以降低換手與非必要換手次數為目標之換手機制," 工商管理學刊 vol. 7, no. 1, page 35-46 (June, 2014), Jun, 2014.

Chia-Jung Chang, Fu-Min Chang (聯絡作者), Jau-Chuan, Ke, "Economic application in a Bernoulli F-policy queuing system with server breakdown," International Journal of Production Research , 52:3, 743-756, (SCI, Scopus), Jan, 2014.

Yale Wang, Fu-Min Chang (聯絡作者), Tie-In Jin, The Dung Bui, "The Cross Section of Expected Stock Return in Ho Chi Minh Stock Exchange Case in Vietnam," 財金論文叢刊, 第 19 期, 90-110, Dec, 2013.

Shang-Juh Kao\*, Fu-Min Chang, Hsiu-Lang Wang, "A beacon-based Handover Scanning Mechanism with QoS Support in WiMAX FemtoCell Architecture," Journal of the Chinese Institute of Engineers, Volume 36, Issue 7, 2013, pages 902-913, (SCI, Scopus), Sep, 2013.

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張阜民 (第一作者) 楊浩忠 柯俊禎 陳建宏, "總體經濟因素對國防支出之影響-以台灣及南韓為例," 財金論文叢刊, 第 18 期, 85-97, Jun, 2013.

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Chinese), Apr, 2013.

Tsung-Yin Wang\*, Jau-Chuan Ke, Fu-Min Chang, "Analysis of a Discrete-time Queue with Server Subject to Vacations and Breakdowns," Journal of Industrial and Production Engineering, 30:1, 54-66, (原期刊名為 Journal of the Chinese Institute of Industrial Engineers, TSSCI, EI), Mar, 2013.

張阜民 (第一作者)王秀郎\* 林意凡 高勝助, "建構一個適地性服務兼具行動監控的行動學習系統," Journal of Science and Engineering Technology, Vol.9 No.1, pp 67-77., (TSCI), Mar, 2013.

金鐵英\* 張阜民 王言 金之中, "台灣上市電子公司智慧資本評價方法之研究," 財金論文叢刊, 第 17 期, 20-42, Dec, 2012.

Yu-Hsin Cheng, Fu-Min Chang, Shang-Juh, Kao\*, "Efficient Hierarchical SIP Mobility Management for WiMAX Networks," Computers and Mathematics with Applications, Volume 64, Issue 5, 1522-1531 (SCI), Sep, 2012.

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I-Ping Hsieh, Fu-Min Chang, Shang-Juh Kao\*, "A Slot-based BS Scheduling with Maximum Latency Guarantee and Capacity First in 802.16e Networks," International Journal of Communication Systems, 25:55-66 (SCI), Feb, 2012.

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薛來銘 張阜民\* 林志銘 高勝助, "具備錯誤回復和有效資源運用功能的語音電話系統," *Journal of Science and Engineering Technology*, Vol. 7, No. 2, pp. 79-89 (2011)(TSCI), Jun, 2011.

張阜民\* 鄭昆樺 高勝助, "在電信乙太網路中提供高可用性及動態頻寬調整的 Triple-play 服務," *Journal of Science and Engineering Technology*, Vol. 7, No. 2, pp. 49-64 (2011) (TSCI), Jun, 2011.

張阜民, 張輝鑫\*,陳原裕, 柯俊禎, "經濟環境變動與人力政策對募兵制的影響-以志願役士兵為例," *財金論文叢刊*, Jun, 2011.

Tsung-Yin Wang\*, Jau-Chuan Ke and Fu-Min Chang, "On the discrete-time Geo/G/1 queue with randomized vacations and at most J vacations," *Applied Mathematical Modelling* 35 (2011) 2297–2308 (SCI), May, 2011.

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Jau-Chuan Ke\* and Fu-Min Chang, "Analysis of a batch retrial queue with Bernoulli vacation and starting failures," International Journal of Services Operations and Informatics, Vol. 5, No.2 pp. 95 - 114 (EI), DOI: 10.1504/IJSOI.2010.031112, Mar, 2010.

Fu-Min Chang, Jau-Chuan Ke\*, "On a batch retrial model with J vacations," Journal of Computational and Applied Mathematics (SCI), Oct, 2009.

薛來銘,張阜民\*,林建霖,高勝助, "適用於 IPv6 無線網路芳鄰探索攻擊的防禦系統," 科學與工程技術期刊, Sep, 2009.

Jau-Chuan Ke\* and Fu-Min Chang, "Modified vacation policy for M/G/1 retrial queue with balking and feedback," Computers & Industrial Engineering (SCI), Aug, 2009.

張阜民\*,李見發,陳郁菁,邱國欽, "台灣股價指數現貨、摩根台股指數現貨與期貨之價格發現研究," 朝陽學報第 14 期, Aug, 2009.

Jau-Chuan Ke\* and Fu-Min Chang, "M[x]/(G1,G2)/1 retrial queue under Bernoulli vacation schedules with general repeated attempts and starting failures," Applied Mathematical Modelling (SCI), Jul, 2009.

張阜民\*, 沈世文, 高勝助, "具備異質平台辨識及效能平衡的網頁郵件伺服器系統," 科學與工程技術期刊, Dec, 2008.

張阜民\*,林宛蓉,柯俊禎, "無形資產評價理論之研究與探討-以台灣電子產業為例," 朝陽學報第 13 期, Sep, 2008.

Fu-Min Chang\*, I-Ping Hsieh, and Shang-Juh Kao, "Adaptive Management System for the Allocation of IP Address Scopes in Multi-Homing Network Environment," International Journal of Soft Computing, Jan, 2007.

Fu-Min Chang\*, Chih-Mou Shih, and Shang-Juh Kao, "Design and Implementation of an AAA-Enabled Access Management System for Wireless Networks," Asian Journal of Information Technology, Jan, 2007.

### 國際性會議論文 | International Proceedings

no information yet

### 國內會議論文 | Domestic Proceedings

no information yet

### 計畫 | Plan

具備同步單一休假策略與兩類型顧客之多伺服器排隊系統分析(110-2221-E-324-015-)

具有一般服務時間及備用轉換失敗的四個重試系統之成本效益分析:可靠服務者與不可靠服務者情況(MOST 109-2221-E-324-013-)

具備顧客到達控制策略與不可靠服務者 M/G/1 重試排隊系統之顧客均衡策略行為與社群最佳化(MOST-107-2221-E-324-013-)

具備服務者保留區塊策略與多個不可信賴服務者排隊系統之研究 (MOST 106-2221-E-324-016-)

考慮單一休假策略、多重休假策略與無耐性計時器的多服務者 排隊系統之  
研究(MOST 105-2221-E-324-017-)

考慮阻礙與不可靠服務者的有限容量重試排隊系統之研究(MOST 104-  
2221-E-324-007-)

考慮服務壓力係數、多重不完全復元、控制到達策略與不可靠維修人員的可  
修復系統之研究(MOST 103-2221-E-324-006-)

應用服務區塊保留之有限緩衝重試 M/M/N/N+r 排隊於雲端計算資料中心  
(I)(NSC102-2221-E-324-020-)(計畫主持人)

國際行銷規劃計畫 (UT101-DTCJ-0-017)(研究人員) 2013-01 ~ 2013-08

應用連續與離散時間排隊系統分析雲端運算服務伺服器效能之研究 (NSC  
101 - 2221 - E - 324 - 018 -)

台灣 QR Code 應用調查產學合作案(UT100-DTCJ-0-006)(計畫協同主持人)  
2011-11 ~ 2012-03

製造業類股指數波動對台灣進出口貿易的影響實證 (UT99-DTC6-0-018)(計  
畫主持人) 2011-07 ~ 2012-06

分析日元匯率波動對企業財務管理之衝擊 (UT99-DTC6-0-021)(計畫共同主  
持人) 2011-07 ~ 2012-06

馬婁條件在台灣中小企業的驗證-以貿易公司為例(UT99-DTC6-0-020)(計畫  
共同主持人) 2011-07 ~ 2012-06

數位網路行銷公司知識管理系統規劃 (UT99-DTC6-0-022)(計畫共同主持  
人) 2011-07 ~ 2012-06

智慧資本評價理論之研究與探討(98F02030104)(計畫主持人) 2009-05 ~  
2009-10

## 獲獎榮譽 | Awards

Inclusion in Who's Who in the world 2013-2014

102 年度論文類佳作獎

97 學年度優良導師

98 年度論文類佳作獎

99 年度論文類佳作獎

Inclusion in Who's Who in Science and Engineering 2011-2012

101 年度論文類佳作獎

## 其他 | Other

no information yet