

陳東榮



職稱：副院長、教授
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教育背景

1982-1986 博士：英國倫敦大學帝國理工學院，柔性製造系統
1981-1982 碩士：英國倫敦大學帝國理工學院，高等應用力學
1979-1981 學士：英國佈萊頓大學，機械工程

Working Experience

2022-present 副院長及教授，商學院，澳門科技大學
2009-2022 副教授/教授/副院長（科研）/副系主任/ 香港理工大学工业及系统工程学系
1996-2009 讲师/副教授/ 香港大学工业及制造系统工程学系
1988-1996 讲师/资深讲师/ 南澳大学（澳洲）制造及机械工程学院
1986-1988 研究员，思克莱德大学（英国）设计，制造及工程管理系

教學活動

項目管理
運籌學
生產與運營管理
供應鏈管理

研究領域

優化
調度運籌
決策科學

學術期刊論文 (1/9/2020 – 31/8/2023) 最近 3 年

- (1) Wang, T., Wang, X.P., Ma, R., Li, X., Hu, X., Chan, F.T.S. and Ruan, J.H. (2020), Random Forest-Bayesian Optimization for Product Quality Prediction with Large Scale Dimensions in Process Industrial Cyber-Physical Systems, *IEEE Internet of Things*, Sept., Vol. 7, No. 9, pp. 8641-8653.
- (2) Chan, F.T.S., *Wang, Z.X., Goswami, A., Singhania, A. and Tiwari, M.K. (2020), Multi-objective Particle Swarm Optimisation based Integrated Production Inventory Routing Planning for Efficient Perishable Food Logistics Operations, *International Journal of Production Research*, September, Vol. 58, No. 17, pp. 5155-5174.
- (3) Yuan, X.Y, Shi, J.H., Wang, Y., Hu, T.T, Wang, X.P., Chan, F.T.S. and Ruan, J.H. (2020), An extended Bass Model on consumer quantity of B2C commerce platforms, *Electronic Commerce Research*, September, Vol. 20, No. 3, pp. 609-628.
- (4) Ruan, J.H., Hu, X., Huo, X, Shi, Y., Chan, F.T.S., Wang, X.P., Manogaran, G., Mastorakis, G., Mavromoustakis, C.X. and Zhao, X. (2020), An IoT Based E-business Model of Intelligent Vegetable Greenhouses and Its Key Operation Issues, *Neural Computing & Applications*, October, Vol. 32, No. 1, pp. 15341–15356.
- (5) Pu, X., *Wang, Z.X. and Chan, F.T.S. (2020), Adoption of Electronic Supply Chain Management Systems: the Mediation Role of Information Sharing, *Industrial Management and Data Systems*, October, Vol. 120 No. 11, pp. 1977-1999.
- (6) Eltoukhy, A.E.E., Shaban, I.A., Chan, F.T.S. and Abdel-Aala, M.A.M. (2020), Data analytics for predicting COVID-19 cases in top affected countries: observations and recommendations, *International Journal of Environmental Research and Public Health*, October, Vol. 17, No. 19, pp. 1-25.

- (7) Qian, Xiaohu, Chan, F.T.S., *Yin, Mingqiang, Zhang, Q., Huang, M. and Fu, X. (2020), A two-stage stochastic winner determination model integrating a hybrid mitigation strategy for transportation service procurement auctions, *Computers and Industrial Engineering*, Nov., Vol. 149. 106703.
- (8) Shang, K., Chan, F.T.S., Karungaru, S., Terada, K., Feng, Z. and Ke, L.-J. (2020), Two-stage robust optimization for the orienteering problem with stochastic weights, *Complexity*, Vol. 2020, Article ID 5649821, pp. 1-15.
- (9) Zhang, C., *Wang, Z.X., Ding, K., Chan, F.T.S. and Ji, W. (2020), An energy-aware Cyber Physical System for energy Big Data analysis and recessive production anomalies detection in discrete manufacturing workshops, *International Journal of Production Research*, December, Vol. 58, No. 23, pp. 7059-7077.
- (10) Huo, J.G., *Zhang, J.H. and Chan, F.T.S. (2020), A fuzzy control system for assembly line balancing with a three-state degradation process in the era of industry 4.0, *International Journal of Production Research*, Dec., Vol. 58, No. 23, pp. 7112-7129.
- (11) Eltoukhy, A.E.E., *Wang, Z.X., Chan, F.T.S., Chung, S.H., Ma, H.M. and Wang, X.P. (2020), Robust aircraft maintenance routing problem using a turn-around time reduction approach, *IEEE SCM-Systems*, Dec., Vol. 50, No. 12, pp. 4919-4932.
- (12) Zhan, S.L., Liu, S., Ignatius, J., Chen, D. and *Chan, F.T.S. (2021), Disaster relief logistics under demand-supply incongruence environment: A sequential approach, *Applied Mathematical Modelling*, January, Vol. 89, part 1, pp.592-609.
- (13) Liu, S., Yu, W., Chan, F.T.S. and Niu, B*. (2021), A variable weight based hybrid approach for multi-attribute group decision making under interval-valued intuitionistic fuzzy sets, *International Journal of Intelligent Systems*, Vol. 36, pp. 1015–1052.
- (14) Ruan, J.H., *Wang, Z.X., Chan, F.T.S., Patnaik, S. and Tiwari, M.K. (2021), A reinforcement learning based algorithm for the aircraft maintenance routing

problem, *Expert Systems With Application*, May, Vol. 169, 114399.

- (15) Li, S.M., Chan, F.T.S., *Tsang, Y.P. and Lam, H.Y. (2021), New Product Idea Selection in the Fuzzy Front End of Innovation: A Fuzzy Best-Worst Method and Group Decision-Making Process, *Mathematics*, Feb., Vol. 9, 337, pp. 1-18.
- (16) Ding, K., Zhang, Y., Chan, F.T.S., Zhang, C., Lv, J., Liu, Q., Leng L. and Fu, H. (2021), A cyber-physical production monitoring service system for energy-aware collaborative production monitoring in a smart shop floor, *Journal of Cleaner Production*, Vol. 297, May, pp. 1-14.
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- (18) Shaban, I.A., Chan, F.T.S., Chung, S.H. and Qu, T. (2021), A mixed wholesale-option-contract to fix the demand imbalance between substitutable air cargo routes: a cooperative game approach, *Expert Systems With Applications*, Vol. 182, November, 2021, 115300.
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- (21) Lv, J., Jia, S., Wang, H., Ding, K. and Chan, F.T.S. (2021), Comparison of different approaches for predicting material removal power in milling process, *International Journal of Advanced Manufacturing Technology*, June, Vol. 116, pp. 213-227.
- (22) Prakash, S., *Jasti, N.V.K., Chan, F.T.S., Nilaiish, Sharma, V.P. and Sharma, L.K. (2021), Decision Modelling of Critical Success Factors for Cold Chains

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- (24) *Orisaremi, K. K., Chan, F. T. S., & Chung, N. S. H. (2021). Potential reductions in global gas flaring for determining the optimal sizing of gas-to-wire (GTW) process: An inverse DEA approach. *Journal of Natural Gas Science and Engineering*, September, Vol. 93, [103995].
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- (45) Eltoukhy, A.E.E., *Wang, Z.X., Shaban, I.A. and *Chan, F.T.S. (2022), Coordinating aircraft maintenance routing and integrated maintenance staffing and rostering: A Stackelberg game theoretical model, *International Journal of Production research*, Vol. 60, Issue 24, Dec., pp. 7450-7474.
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- (48) Patil, A., Madaan, J., *Chan, F.T.S. and Charan, P. (2022), Advancement of performance measurement system in the humanitarian supply chain, *Expert Systems With Applications*, November, Vol. 206, 15, 117844.
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- (53) Zhang, Q., *Chan, F.T.S., Chung, S.H. and Fu, X. (2022), Operational aircraft maintenance routing problem incorporating cruise speed control, *Engineering Optimization*.
- (54) Ding, K., Niu, Z., Hui, J., Zhou, X. and *Chan, F.T.S. (2022), A Weld Surface Defect Recognition Method based on Improved MobileNetV2 algorithm, *Mathematics*, Vol. 10, No. 19, 3678.
- (55) Dwivedi, A., Madaan, J., *Chan, F.T.S. and Dalal, M. (2023), A comparison study of GA and PSO approach for cost optimization in Product Recovery System, *International Journal of Production research*, Vol. 61, Issue 4, Feb., pp. 1283-1297.

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- (58) Zhou, T., Zhang, L., Han, T., Droguett, E.L., Mosleh, A. and *Chan, F.T.S. (2023), An Uncertainty-Informed Framework for Trustworthy Fault Diagnosis in Safety-Critical Applications, *Reliability Engineering and System Safety*, January, Vol. 229, 108865.
- (59) Irfan, I., Au, A.K.M., Khurshid, F. and *Chan, F.T.S. (2023), Learning by Supplying to Climb the Value Chain: Suppliers' Transition from B-to-B to B-to-C, *Supply Chain Management: An International Journal*, April, Vol. 28, NO. 4, pp. 641-665.
- (60) Kehinde, T.O., *Chan, F.T.S. and Chung, S.H. (2023), Scientometric review and analysis of recent approaches to stock market forecasting: Two decades survey, *Expert Systems With Applications*, March, Vol. 213, Part C, 119299.
- (61) Goswami, M., *Chan, F.T.S., Ramkumar, M., Daultani, Y., Pratap, S. and Chhabra, A. (2023), A joint modeling and exploratory framework for intra-firm collaboration within construction and mining equipment industry, *Industrial Management and Data Systems*, February, Vol. 123, No. 2, pp. 451-491.
- (62) Orisaremi, K.K., *Chan, F.T.S., Chung, S.H. and Fu, X. (2023), Maximizing flare gas power generation for the design of an optimal energy mix, *Journal of Cleaner Production*, March, Vol. 391, 136164.
- (63) Xu, X., Ji, P. and *Chan, F.T.S. (2023), Retailers' optimal ordering policies for a dual-sourcing procurement, *Industrial Management and Data Systems*, March, Vol. 123, No. 3, pp. 1052-1072.
- (64) Zhang, Y., Zhang, D., *Zhang, X., Qiu, L., Chan, F.T.S., Wang, Z. and Zhang, S. (2023), Guided Probabilistic Reinforcement Learning for Sampling-Efficient

Maintenance Scheduling of Multi-Component System, *Applied Mathematical Modelling*, July, Vol. 119, pp. 677-697

- (65) Eltoukhy, A.E.E., *Hussein, M., Xu, M. and *Chan, F.T.S. (2023), Data-driven Game-theoretic Model Based on Blockchain for Managing Resource Allocation and Vehicle Routing in Modular Integrated Construction, *International Journal of Production research*, July, Vol. 61, No. 13, pp. 4472-4502.
- (66) *Chan, F.T.S. and Ding, K. (2023), Industrial Intelligence-driven Production and Operations Management, *International Journal of Production research*, July, Vol. 61, No. 13, pp. 4215–4219.
- (67) Zhang, Q., *Chan, F.T.S., Chung, S.H. and Fu, X. (2023), Improved ant colony optimization for the operational aircraft maintenance routing problem with cruise speed control, *Journal of Advanced Transportation*, Vol. 2023, 18 pages.
- (68) Luo, G., *Liu, X. and *Chan, F.T.S. (2023), Optimal ordering decisions in portfolio procurement considering the spot price fluctuation, *Sustainability*, 15, 11169.
- (69) Zheng, K., *Ding, K., Hui, J., Zhang, F., Lv, J. and *Chan, F.T.S., Blockchain-based Credible Manufacturing Data Sharing for a Collaborative Manufacturing Supply Chain, *International Journal of Production research*. (In Press)
- (70) Kumar, R.R., *Chan, F.T.S., Chakraborty, A. and Goswami, M., Driving Electric Mobility Considering Manufacturers' Power Asymmetry in Presence of the Government's policy Instruments, *IEEE Transactions on Engineering management*. (In Press)
- (71) Ruan, J., Mao, J., Liu, T., Svyatoslav, S., Sun, Z., Wang, B., Shi, Y., Chan, F.T.S. and Zhu, Y., Knowledge Bases, Cooperation Networks and Influential Contributions of Channel Modeling for Terahertz Communications, *IEEE Communications Magazine*. (In Press)
- (72) Guo, L., Duan, Z., Guo, W., *Ding, K., Lee, C.H. and *Chan, F.T.S., Machine vision-based recognition of elastic abrasive tool wear and the its influence on machining performance, *Journal of Intelligent Manufacturing*. (In press)

其他專業資格 / 獎項 / 活動

國際雜誌主編/高級副主編/副主編:

- (1) 《Transportation Management》主編
- (2) 《OPSEARCH》高級副主編
- (3) 《International Journal of Modelling in Operations Management》副主編
- (4) 《Modern Supply Chain Research and Applications》副主編
- (5) 《Operations and Supply Chain Management: An International Journal》副主編

國際雜誌客座主編:

International Journal of Production Research; Mathematics; Journal of Manufacturing Technology Management; International Journal of Business Performance Management; International Journal of Intelligent Systems Technologies and Applications; International Journal of Computer Applications in Technology; International Journal of Value Chain Management; Mathematical Problems in Engineering; Proceedings of Institute of Mechanical Engineering- Part O: Journal of Risk and Reliability.

國際雜誌成員:

International Journal of Production Research; Supply Chain Management: An International Journal; Journal of Intelligent Manufacturing; Journal of Manufacturing Technology Management; International Journal of Computer Integrated Manufacturing; Robotics and Computer Integrated Manufacturing; International Journal of Advanced Manufacturing Technology; International Journal of Business Performance Management; International Journal of Computer Applications in Technology; International Journal of Agile Systems and Management; International Journal of Services, Economics and Management; International Journal of Supply Chain and Operations Resilience; Advances in Industrial Engineering and Management.

國際會議主講人/主席/成員：

- 陳東燊教授經常被邀請作為國際會議的主旨演講，約 20 多次
- 他亦活躍於組織國際會議及接受重要角色包括會議主席；程序主席，約 16 多次
- 他亦作為其他國際會議的組織成員，約 60 多次

研究基金的評估小組成員：

- (1) 香港-大學教育資助委員會-研究資助局-**工程委員會**（聯合研究計劃）成員（2018 年 3 月 1 日至今）
- (2) 國家自然科學基金委員會、香港-大學教育資助委員會-研究資助局聯合研究計劃**評估小組成員**（2018 年 3 月 1 日至今）
- (3) 香港-大學教育資助委員會-研究資助局-本地自資學位界別競逐研究資助計劃**評審委員會會員**（工程）（2017 年 3 月 14 日至今）
- (4) 香港 ITF 企業家基金**評估小組成員**

其他專業資格

排名前 2% 科學家

根據斯坦福大學某研究小組關於最新科學家影響的彙編（排名前 2%），陳東燊教授分類為連續三年（2020-2022）排名前 2%科學家。

運籌學領域重大貢獻

根據斯坦福大學某研究小組關於最新科學家影響的彙編（2020 年）（排名前2%），該工作發表在以下網站：

<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918>，陳東燊教授在全球運籌學領域中的23,455名科學家中排名第10，即全球Top0.04%。

此外，在斯坦福大學學著對Top2%科學家的最新一文：Baas, Jeroen; Boyack, Kevin; Ioannidis, John P.A. (2021), "August 2021 data-update for "Updated science-wide author databases of standardized citation indicators"", Mendeley Data, V3, (doi: 10.17632/btchxktzyw.3)中發現，陳東燊教授再次歸入該領域，並**連續兩年**（2020年和2021年）在全球26063名研究人員中排名第10，即全球前0.04%。

供應鏈管理研究領域的重大貢獻

根據2018年《International Journal of Production Economics》中的文章：Babbar, S., Behara, R.S., Koufteros, X.A. and Wong, C.W.Y., "Charting leadership in

SCM research from Asia and Europe”, *International Journal of Production Economics* (2018), doi:10.1016/j.ijpe.2018.07.005.

按照總出版分數陳東燊教授位列前25 位：

- 2001-2015 年，按出版分數排名亞洲前25 位供應鏈管理的作者，陳東燊教授排名第16 位；
- 2001-2015 年，按總中心度排名亞洲前25 位供應鏈管理的作者，陳東燊教授排名第5 位；
- 2001-2015 年，按Bonacich 中心排名亞洲前25 位供應鏈管理的作者，陳東燊教授排名第6 位。

***<https://doi.org/10.1016/j.ijpe.2018.07.005>

營運管理研究領域的重大貢獻

根據2013 年《International Journal of Production Research》中的文章：Timothy D. Fry, Joan M. Donohue, Brooke A. Saladin and Guangzhi Shang, “The origins of research and patterns of authorship in the International Journal of Production Research”，陳東燊教授在1985-2010 年，按照文章排名的前100 名作者中位列 第2 位。此外，在2006-2010 年中，陳教授排名第1 位。這一分類結果有助於確定過去對《International Journal of Production Research》有重大影響的作者，以及有望在未來對《International Journal of Production Research》產生影響的作者。

*<http://dx.doi.org/10.1080/00207543.2013.832436>

根據最新發表在《International Journal of Production Research》中的一項研究**，香港理工大學在全球研究貢獻方面排名世界第12 位，亞洲第2 位。這項研究基於11 個世界頂尖的營運管理期刊上發表文章的數量，衡量了學術機構和個人在26 年（1985-2010）內對運營管理領域的研究貢獻。根據在11 個指定期刊上發表論文的數量衡量，陳東燊教授在對該領域做出重大貢獻的前50 位作者中排名第15 位。

此外，陳東燊教授過去的10 年（2001-2010）在運營管理領域中，在最具生產力的前100 名研究人員中排名第3 位。

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