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| **Tzu-Chia Chen, PH.D.**  Instructor and Researcher  Research Innovation and Development (RDI)  China-Asean International College (CAIC), Dhurakij Pundit University  110/1-4 Prachachuen Road, Laksi, Bangkok 10210, Thailand  Email: tzu-chia.che@dpu.ac.th | C:\Users\DPU.NewEmployee\Downloads\oo-removebg-preview.png |

**EDUCATION**

**Industrial Engineering and Management** Ph.D.

**Statistics** M.B.A

**Business Mathematics** B.B.A

**EXPERIENCE**

**Machine Learning and Deep Learning**

**Logistics and Supply Chain Management**

**Sustainability and Multiple Criteria Decision Making**

**Business Innovation**

**Material Science and Economics**

**PUBLICATION / PROCEEDING**

* Chen, T. C., Yu, S. Y., & Sajjadifar, S. (2021). Engineering of new Mg-based glassy compositions by a computational intelligence model. Materials Letters, 290, 129441. (SCIE - IF: 3.204)
* Zeraati, M., Chen, T. C., Ebri, M., Chauhan, N. P. S., & Sargazi, G. (2021). Length prediction of silicon nanowires (SiNWs) prepared by the MACE method using the ANN-COA-PSO algorithm for high supercapacitor applications. Journal of Physics and Chemistry of Solids, 156, 110146. (SCIE - IF: 3.995)
* Elveny, M., Hosseini, M., Chen, T. C., Lawal, A. I., & Alizadeh, S. M. (2021). Estimation of Isentropic Compressibility of Biodiesel Using ELM Strategy: Application in Biofuel Production Processes. BioMed Research International, online. (SCIE - IF: 2.276)
* Chen, T. C., Zhu, W. W., Jiao, Z. K., & Petrov, A. M. (2021). Creep–fatigue lifetime estimation of SnAgCu solder joints using an artificial neural network approach. Mechanics of Advanced Materials and Structures, 1-7. (SCIE - IF: 3.517)
* Chen, T. C., Rajiman, R., Elveny, M., Guerrero, J. W. G., Lawal, A. I., Dwijendra, N. K. A., Surendar A., Danshina S. D. & Zhu, Y. (2021). Engineering of Novel Fe-Based Bulk Metallic Glasses Using a Machine Learning-Based Approach. Arabian Journal for Science and Engineering, 1-9. (SCIE - IF: 2.334)
* Chen, T. C. & Yu, S. Y. (2021). Research on food safety sampling inspection system based on deep learning. Food Science and Technology, 41, Special Issue, 1-8. (SCIE - IF: 1.52)
* Chen, T. C. & Yu, S. Y. (2021). The review of food safety inspection system based on artificial intelligence, image processing, and robotic. Food Science and Technology, 41, Special Issue, 1-7. (SCIE - IF: 1.52)
* Xu, B., Chen, T. C., Ahangari, D., Alizadeh, S. M., Elveny, M., & Makhdoumi, J. (2021). Application of a Supervised Learning Machine for Accurate Prognostication of Hydrogen Contents of Bio-Oil. International Journal of Chemical Engineering, 2021, 7548251. (SCIE - IF: 2.257)
* Chen, T. C., Elveny, M., Surendar, A., Lawal, A. I., Zekiy, A. O., & Anzum, R. (2021). Developing a Multilateral-based Neural Network Model for Engineering of High Entropy Amorphous Alloys. Modelling and Simulation in Materials Science and Engineering, 29, 065019. (SCIE - IF: 2.248)
* Chen, T. C. & Yu, S. Y. (2021). Two-Product Modules Ordering Quantities Decision Model with Uncertain Demand and Green Common Modules Allocation Problem. Journal of Environmental Protection and Ecology, 22(1), 197-205. (SCIE - IF: 0.692)
* Chen, T. C. & Yu, S. Y. (2021). Study on the risk level of food production enterprise based on TOPSIS method, 41, Special Issue, 1-6. (SCIE - IF: 1.52)
* Isola, L. A., Chen, T. C., Elveny, M., Alkaim, A. F., Thangavelu, L., & Kianfar, E. (2021). Application of micro and porous materials as nano-reactors. Reviews in Inorganic Chemistry, online. (SCIE - IF: 2.625)
* Supriyono, S., Chen, T. C., Yapanto, L. M., Latipov, Z. A., Zekiy, A. O., Melnikova, L. A., Thangavelu, L., Surendar, A., Repnikov, N. I. & Arzehgar, Z. (2021). Reliability Modeling and Assessment of Solder Joints of Electronic Assemblies under Mixed Exposure to Mechanical Loads, Soldering & Surface Mount Technology, online. (SCIE Index- IF: 2.164)
* Chen, T. C., Yu, S. Y., Zhang H. & Pirnazarov, N. (2021). Application of Sustainable Education Innovation in the Integrated Teaching of Theory and Practice Adopted in the Auto Chassis Course- A Case Study on the Auto Repair Speciality of a Secondary Vocational School in Suzhou, China. Tobacco Control, Accepted and forthcoming. (SCIE/SSCI - IF: 7.552)(SJR-Q1)
* LI, J., Chen, T. C. & Zekiy, A. O. (2021). Correlative Study between Elastic Modulus and Glass Formation in ZrCuAl(X) amorphous System using a Machine Learning Approach, Applied Physics A: Materials Science and Processing, 127(9), 1-8. (SCIE - IF: 5.584)
* Chen, T. C. & Yu, S. Y. (2021). An EOQ model with stepwise ordering cost and the finite planning horizon under carbon cap-and-trade regulations. Decision Science Letters, 10(3), 337-350. (SCOPUS)(SJR-Q2)
* Huang, T. C., & Chen, T. C. (2021). Multi-Product Shipment and Production Scheduling Mathematical Model under Different Distribution Policies. Industrial Engineering & Management Systems, 20(2), 270-278. (SCOPUS)(SJR-Q2)
* Chen, T. C., & Li, Y. (2021). Developing a New Multi-Objective Mathematical Model for Electric Vehicles Routing with Charging Stations and Time Windows. Industrial Engineering & Management Systems, 20(2), 279-288. (SCOPUS)(SJR-Q2)
* Chen, T. C., Zahar, M., Voronkova, O. Y., Khoruzhy, V. I., Morozov, I. V. & Esfahani, M. J. (2021). Providing a framework based on decision-making methods to assess safety risk in construction projects. International Journal of Industrial Engineering and Management, Accepted and forthcoming. (SCOPUS)(SJR-Q2)
* Chen, T. C., Hsieh, T. S. & R. A. SHICHIYAKH (2021). Sustainable Operation of Surface-Groundwater Conjunctive Use Systems in Agriculture Sector. Journal of Water and Land Development, Accepted and forthcoming. (SCOPUS)(ESCI)(SJR-Q2)
* Chen, T. C., Tseng, C. J. & Yu, S. Y. (2020). Evaluation of real estate project construction quality based on entropy-VIKOR method. EurAsian Journal of BioSciences, 14(2), 2799-2804. (SCOPUS)(SJR-Q4)
* Chen, T. C., Tseng, C. J., & Yu, S. Y. (2020). Environmental impact assessment in coal-burning power plants based on AHP and entropy weight VIKOR method. EurAsian Journal of BioSciences, 14(2). (SCOPUS)(SJR-Q4)
* Tseng, C. J., & Chen, T. C. (2020). Impact of Web-Based Teaching on the Learning Performance of Education and Training in the Service Industry during COVID-19. Contemporary Educational Technology, 12(2). (SCOPUS)(SJR-Q2)
* Chen, T. C., Li, W., & Yu, S. Y. (2021). On the price volatility of steel futures and its influencing factors in China. Accounting, 7(4), 771-780. (SCOPUS)(SJR-Q4)