

## 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



### EDUCATION

|                                              |       |
|----------------------------------------------|-------|
| <b>Industrial Engineering and Management</b> | Ph.D. |
| <b>Statistics</b>                            | M.B.A |
| <b>Business Mathematics</b>                  | 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. & Arzehtar, 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)