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He has published over 700 research papers in international/national journals and conferences and has planned over fifty information systems. He also served as the chair of different roles in many conferences and as the program committee member of over a thousand conferences. He has some academic awards and is currently the board member of more than forty journals. His research interests include data mining, artificial intelligence, soft computing, and information systems.

He has been involved in the activities of IARIA since 2010, when he was a PC member of the second International Conference on Advanced Cognitive Technologies and Applications (COGNITIVE). He then joined the PC members of many IARIA conferences. He is now a board member of the International Journal on Advances in Software from 2012 and the International Journal on Advances in Intelligent Systems from 2024. He has also published several papers in IARIA conferences, including the following ones in recent years:

- C. H. Chen, Y. Q. Huang, and T. P. Hong, "An effective approach for genetic-fuzzy mining using the graphics processing unit," The Eleventh International Conference on Advances in Information Mining and Management (IMMM), 2021, Spain.
- T. P. Hong, Y. C. Chang, C. H. Wang, and W. M. Huang, "Mining erasable itemsets with multiple thresholds under the loose constraint," The Ninth International Conference on Advances in Computation, Communications and Services (ACCSE), 2024, Italy.
- T. P. Hong, Y. P. Chao, J. S. Lee, and J. W. Su, "Using bi-directional instance-based compatibility prediction for outfit recommendation," The First International Conference on Generative Pre-trained Transformer Models and Beyond (GPTMB), 2024, Portugal.