

年 級：博 七 (100 入學)

## 著作列表

---

### Journal Papers

- [1] **Tai-Liang Chen**, I-An Su, and Jenq-Kuen Lee. 2022. Case Study: Design Strategies for Enabling Visual Application Blocks of Bluetooth Library. *IEEE ACCESS*, vol. 10, pp. 52630-52654, May 2022. IEEE.  
(SCIE, EI) (Impact factor: 3.367 (JCR 2020))
- [2] **Tai-Liang Chen**, Yi-Ru Chen, Meng-Shiun Yu, and Jenq-Kuen Lee. 2021. NNBlocks: A Blockly Framework for AI Computing. *Journal of Supercomputing (JOS)*, Springer, 77(8), pp. 8622-8652, Aug. 2021.  
(SCI, EI) (Impact factor: 2.474 (JCR 2020)) (**citation number: 1**)

### Conference Papers

- [1] Po-Yao Chang, **Tai-Liang Chen**, Yu-Tse Huang, Meng-Shiun Yu, and Jenq-Kuen Lee. 2022. C++OpenCL4TVM: Support C++OpenCL Kernel for TVM NN Operators. In *Proceedings of the International Workshop on OpenCL (IWOCL'22)*, Bristol, United Kingdom. *ACM Proceedings*, Article 27, 1-2, May 2022. (Poster Paper)
- [2] Po-Yao Chang, **Tai-Liang Chen**, and Jenq-Kuen Lee. 2021. Enabling the Use of C++20 Unseq Execution Policy for OpenCL. In *Proceedings of the International Workshop on OpenCL (IWOCL '21)*, Munich, Germany. *ACM Proceedings*, Article 22, 1-2, Apr. 2021. (Poster Paper) (**citation number: 1**)
- [3] Meng-Shiun Yu, **Tai-Liang Chen**, and Jenq-Kuen Lee. 2020. Accelerating NNEF Framework on OpenCL Devices Using clDNN. In *Proceedings of the International Workshop on OpenCL (IWOCL '20)*, Munich, Germany. *ACM*

*Proceedings*, Article 20, 1-2, Apr. 2020. (Poster Paper) (**citation number: 2**)

- [4] **Tai-Liang Chen**, Shih-Huan Chien, and Jenq-Kuen Lee. 2018. ViennaCL++: Enable TensorFlow/Eigen via ViennaCL with OpenCL C++ Flow. In *Proceedings of the International Workshop on OpenCL (IWOCL '18)*, Oxford, United Kingdom. *ACM Proceedings*, Article 28, 1-2, May 2018. (Poster Paper) (**citation number: 7**)

## Contests & Awards

- [1] **2020** Superior Prize in the VMware Special Award & Honorable Mention Award of the *Intelligent Innovation and Interdisciplinary Creation Contest*

2020 全國大專校院智慧創新暨跨域整合創作競賽-體感互動科技組:企業特別獎 VMware 獎項佳作&值得注目獎

- Team: 陳奕儒、**陳泰良**、廖卉馨、吳宗逸
- Advisor: Prof. Jenq-Kuen Lee
- Subject: IRNetBlocks, an AI Blockly with TVM Relay IR and scheduling optimization blocks.

- [2] **2016** Superior Prize of the *Mobileheroes Contest, IDB/MOEA*

2016 經濟部工業局-Mobileheroes 通訊大賽-智慧城市應用服務設計競賽:佳作獎

- Team: **陳泰良**、余俊佑、宋相緯
- Advisor: Prof. Jenq-Kuen Lee
- Subject: Voice-HomeAgent, the interactive effects that the mobile device app receives Bluetooth headset voice to control IoT appliances.

- [3] **2015** Business Award of the *Mobileheroes Contest, IDB/MOEA*

2015 經濟部工業局-Mobileheroes 通訊大賽-智慧城市應用服務設計競賽-實作組:企業獎

- Team: **陳泰良**、林子翔、林伯欣、張晉綸
- Advisor: Prof. Jenq-Kuen Lee
- Subject: NaviDroid-Engine, the interactive effects of navigation that the mobile device app combines augmented reality and path planning.

- [4] **2014** Business Award & Superior Prize of the *Mobileheroes Contest, IDB/MOEA*

2014 經濟部工業局-Mobileheroes 通訊大賽-智慧型手持裝置使用者體驗設計  
競賽-UX 實作組:企業獎&優等獎

- Team: 陳泰良、吳奇恩、王俊智
- Advisor: Prof. Jenq-Kuen Lee
- Subject: &Gestures, the interactive effects that Leap Motion accepts hand gestures to control the mobile device interface and presentations.

[5] **2013 Superior Prize of *the Mobileheroes Contest, IDB/MOEA***

2013 經濟部工業局-Mobileheroes 通訊大賽-智慧型手持裝置使用者體驗設計  
競賽-智慧終端實作組:優等獎

- Team: 江嘉福、張元銘、杜佳旆、陳泰良、郭展鵬
- Advisor: Prof. Jenq-Kuen Lee
- Subject: FlexiDroid, the interactive effects that the flex sensor is used as a device accessory to control the mobile device's interface.

年 級：博六（103 碩入，105 上直升）

## 著作列表

---

### Journal Papers

[1] **Yu-Shan Lin**, Shao-Kan Pi, Meng-Kai Liao, Ching Tsai, Aaron Elmore, Shan-Hung Wu, “MgCrab: transaction crabbing for live migration in deterministic database systems”, in Proceedings of the VLDB Endowment 12.5 (2019): 597-610.

### Conference Papers

[1] Shan-Hung Wu, Tsai-Yu Feng, Meng-Kai Liao, Shao-Kan Pi, **Yu-Shan Lin**, “T-part: Partitioning of transactions for forward-pushing in deterministic database systems”, in Proceedings of the 2016 International Conference on Management of Data (SIGMOD’16).

[2] **Yu-Shan Lin**, Ching Tsai, Tz-Yu Lin, Yun-Sheng Chang, Shan-Hung Wu, “Don't Look Back, Look into the Future: Prescient Data Partitioning and Migration for Deterministic Database Systems”, in Proceedings of the 2021 International Conference on Management of Data (SIGMOD’21).

### Patent

[1] Shan-Hung Wu, Meng-Kai Liao, Shao-Kan Pi, **Yu-Shan Lin**, “Distributed systems and methods for database management and management systems thereof”, US Patent 10,152,505, 2018

年 級：博三（107 碩入，108 上直升）

著作列表

---

**Journal Papers**

- [1] Hsieh, Y. S., Huang, P. C., Chen, P. X., Chang, Y. H., Kang, W., Yang, M. C., & Shih, W. K., “Shift-limited sort: Optimizing sorting performance on skyrmion memory-based systems,” *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, 39(11), 4115-4128, 2020.  
[CATEGORIES: SCI, impact factor=2.807 (2020), 5 years impact factor=2.702]
- [2] Hsieh, Y. S., Huang, P. C., Chang, Y. H., Chen, B. J., Kang, W., & Shih, W. K., “Granularity-driven Management for Reliable and Efficient Skyrmion Racetrack Memories,” *IEEE Transactions on Emerging Topics in Computing*, 2022.  
[CATEGORIES: SCI, impact factor=7.691 (2022), 5 years impact factor=6.069]