

一、成員著作列表(2013~2017 年)

陳陽益 Yang-Yih Chen

(A). 期刊論文 (共 23 篇)

1. Li, M. S., **Chen, Y. Y.***, Hsu, H.C., A. Torres-Freyermuth (2013) "Experiment and Lagrangian Modeling of Nonlinear Water Waves Propagating on a Sloping Bottom," *Ocean Engineering*, Vol. 64, pp. 36-48. (SCI)
2. **Chen, Y. Y.***, Chen, H. S., Lin, C. Y., Li, M. S. (2013) "Lagrangian Solution for an Irrotational Progressive Water Wave Propagating on a Uniform Current," *Journal of Atmospheric and Oceanic Technology*, Vol. 30, pp. 825-845. (SCI)
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4. Yang, K. S., **Chen, Y. Y.***, Li, M. S., Hsu, H. C. (2013/12) "Theoretical and experimental study of breaking wave on sloping bottoms," *China Ocean Engineering*, Vol. 27, No. 6, pp. 737-750. (SCI)
5. Wu, N. J.*, Tsay, T. K., **Chen, Y. Y.** (2014/03) "Generation of stable solitary waves by a piston-type wave maker ," *Wave Motion*, Vol.51, pp. 240-255.(SCI)
6. **Chen, Y. Y.***, Chen, H. S. (2014/09) "Lagrangian solution for irrotational progressive water waves Propagating on a uniform current: Part 1. Fifth-order analysis" *Ocean Engineering*, Vol.88, pp. 546-567. (SCI)
7. **Chen, Y. Y.**, C. Kharif *, J. H. Yang, H. C. Hsu, J. Touboul, J. Chambarel (2015/01-02) "An experimental study of steep solitary wave reflection at a vertical wall" *European Journal of Mechanics B/Fluids*, Vol.49, pp. 20-28.(SCI)
8. **Chen, Y. Y. ***, Li, M. S., (2015/01), "Evolution of breaking waves on sloping beaches" *Coastal Engineering*, Vol. 95, pp51-65. (SCI)
9. **Chen, Y. Y.**, Yang, B. D. * (2015/01), "Wave-wave interactions on a sloping bottom" *Coastal Engineering*, Vol. 95, pp84-93. (SCI)
10. Hong-Mo Wu, Shao-Gu Kuo, Yen-Ting Lai, Li-An Kuo, Chia-Yan Cheng, Jyh-Cheng Chu, **Yang-Yih, Chen***, John R.C. Hsu. (2015), "Composite Coastal Protection Methods Used at Cijin Coast, Taiwan," *Journal of Marine Science and Technology*, Vol. 23, No. 4, pp.457-466. (SCI)
11. Frederick N.-F. Chou, Chia-Ying Chang*, **Yang-Yih Chen**, Yi-Chern Hsieh, and Chia-Tzu Chang (2015/09) "Experiment of a new style oscillating water column device of wave energy converter," *AIMS Energy*, Volume 3, Issue 3, pp.421-427.(EI)
12. Chia-Cheng Tsai*, **Yang-Yih Chen**, Hung-Chu Hsu (2015), "Automatic Euler-Lagrange transformation of nonlinear progressive waves in water of uniform depth," *Coastal Engineering Journal*, Vol. 57, pp.1550011.
13. Bo-Wei Chen, **Yang-Yih Chen**, You-Cheng Lin, Chiung-Yao Huang, Chokkalingam Uvarani, Tsong-Long Hwang, Michael Y. Chiang, Ho-Yih Liu and Jyh-Horng Sheu*, (2015), "Capsisteroids A-F, Withanolides from the Leaves of Solanum capsicoides," *RSC Advances*, Vol. 5, pp.88841-88847.
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18. **Yang-Yih Chen*** , Yi-Jin Li , Hung-Chu Hsu and Hwung-Hweng Hwung (2017) "Experiment on Pressure Distribution of a Solitary Wave at the Bottom and on a Vertical Wall", *Ocean Engineering*, submitted.

19. 陳陽益、楊炳達*(2013/6)「以 Lagrangian 方式描述漲退潮下沿緩斜坡前進之波浪」，*海洋工程學刊*，第 13 卷，第 2 期，第 103-117 頁。
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24. 林敬樺、許弘莒*、陳陽益、陳冠宇(2015)「波流交互作用通過剛性有限厚度孔隙底床所引致之能量損失」，*海洋工程學刊*，第 15 卷，第 1 期，第 37-56 頁。
25. 陳陽益、楊瑞源(2015/6)「台灣海洋工程學會 103 年推動深耕海洋可再生能源與深海海事工程關鍵技術之回顧與展望—迎接黑潮發電時代關鍵里程紀實」，*工程*，第 88 卷，第 3 期，第 33-37 頁。

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2. C.Y. Cheng, J.H. Lin, J.L. Yu, **Chen, Y.Y.**, G.Y. Chen (2014) "Energy dissipation of wave-uniform current over a finite-rigid porous media," *The 34th International Conference on Coastal Engineering*, Korea, June 16-20, Session Wave-Current Interaction. (EI)
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4. J.H. Lin, J.L. Yu, C.Y. Cheng, **Chen, Y.Y.**, G.Y. Chen (2014) "Quick estimation of tsunami induced runup in coastal area," *The 34th International Conference on Coastal Engineering*, Korea, June 16-20, Session Tsunami Run-up and Inundation. (EI)
5. Jing-Bo Hung, Pei-Chi Chang, Ta-Hui Lin, **Chen, Y. Y.**, (2014/11) "The Wind Observation and Its Applications Using the Floating LiDAR," *Taiwan-EU Symposium on Ocean Observation and Its Applications*, Tainan, Taiwan, November 4-5, Technical session 3: Remote sensing and field monitoring.
6. Frederick N.-F. Chou, Chia-Ying Chang*, **Yang-Yih Chen**, Hsieh, Yi-Chern and Chia-Tzu Chang, (2014/12), "Experiment Test Of An Oscillating Water Column Device Of Wave Energy Converter", *中國機械工程學會第 31 屆全國學術研討會*, Taichung, Taiwan, December 6-7。
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9. Li, M. S., Hsu, H. C., Chen, Y.Y.,(2015) "The evolution of partial standing wave on a sloping bottom," 14th International Conference on Civil and Environmental Engineering, National Central University, Taiwan, Nov. 8-11, session 5.1 structural Engineering and Material Engineering.
10. Yang-Yih Chen, Ray-Yeng Yang and Chin-Yen Pai (2015) "R&D of Pilot Kw Kuroshio Current Energy System in Taiwan," 14th International Conference on Civil and Environmental Engineering, National Central University, Taiwan, Nov 8-11.
11. Wen-Yang HSU, Zhi-Cheng HUANG, Hsi CHEN, Kuang-An CHANG, Yang-Yih CHEN, Ray-Yeng YANG, Jay YANG and Byoungjoon NA (2015) "Large-Scale laboratory observations of turbulence and shear stress in the surfzone," 14th International Conference on Civil and Environmental Engineering, National Central University, Taiwan, Nov 8-11.
12. Chia-Ying Chang, Frederick N.-F. Chou, **Yang-Yih Chen**, Cheng-Jung Hsu, (2016/09), "Analytical

- and experimental investigation of hydrodynamic performance of an oscillating water column device”
The 11th SDEWES Conference on Sustainable Development of Energy, Water and Environment Systems, Lisbon, Portugal, September 4-9.
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 17. Cheng-Jung Hsu, Yang-Yih Chen and Hsuan-Shan Chen (2016,Oct) “Application of Wave Spectra Partition Method,” 15th International Conference on Civil and Environmental Engineering, Hiroshima University, Japan, Oct. 17-19, Coastal Engineering (2).
 18. 陳陽益、程嘉彥(2013)「等深中至最高波之週期性前進重力波」，第三十五屆海洋工程研討會論文集，第 1-6 頁。
 19. 陳陽益、楊炳達、李孟學(2013)「漲退潮下沿緩斜坡前進之波浪(III)」，第三十五屆海洋工程研討會論文集，第 7-12 頁。
 20. 曾文哲、陳陽益、許弘莒、程嘉彥、李孟學(2013)「碎波波高指數與波浪尖銳度之相關性研究」，第三十五屆海洋工程研討會論文集，第 13-18 頁。
 21. 李孟學、Qingpin Zou、陳陽益、許弘莒(2013)「非陡斜坡底床上之部份駐波解析」，第三十五屆海洋工程研討會論文集，第 19-24 頁。
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 23. 胡凱程、余進利、江文山、葉柏志、賴志峰、陳陽益(2013)「安平漁港潮流循環再探」，第三十五屆海洋工程研討會論文集，第 161-166 頁。
 24. 吳南靖、蔡丁貴、陳陽益、朱翌成(2013)「Lagrange 觀點於水波數值模擬之應用研究」，第三十五屆海洋工程研討會論文集，第 197-202 頁。
 25. 郭禮安、蘇超偉、陳信宏、江文彬、張珮綺、楊瑞源、白俊彥、陳陽益(2013)「海流發電系統錨碇纜繩拉力試驗及淨反向流遭遇機率分析」，第三十五屆海洋工程研討會論文集，第 293-299 頁。
 26. 陳靜茹、曾清涼、溫進丁、江文山、余進利、陳陽益(2013)「彰化海岸地形變遷趨勢探討」，第三十五屆海洋工程研討會論文集，第 425-430 頁。
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 29. 陳陽益、李孟學、楊貴森(2014/12)，「斜坡底床上碎波波形變化」，第三十六屆海洋工程研討會論文集，第 35-39 頁。
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陳鎮東 Chen-Tung Arthur Chen (第一作者 7 篇、通訊作者 20 篇)

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翁靖如 **Jing-Ru Weng** (第一作者: 1, 通訊作者: 3, 第一兼通訊作者: 2) **201608** 到職

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22. **Jing-Ru Weng***, Li-Yuan Bai, and Wei-Yu Lin, Identification of a triterpenoid as a novel PPAR γ activator derived from Formosan plants, *Phytotherapy Research*, **2017**, accepted, in press. DOI: 10.1002/ptr.5900 (IF: 3.092; 81/256 , PHARMACOLOGY & PHARMACY)
23. Chia-Ju Tsai, Fang-Yi Liao, **Jing-Ru Weng**, Chia-Hsien Feng*, Tandem derivatization combined with salting-out assisted liquid-liquid microextraction for determination of biothiols in urine by gas chromatography-mass spectrometry, *Journal of Chromatography A*, **2017**, 1524, 29-36. (IF: 3.981; 11/76 , CHEMISTRY, ANALYTICAL)

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1. Benny K. K. Chan, Yi-Yang Chen, **Hsiu-Chin Lin*** "Biodiversity and host specificity of the coral barnacle Galkinia (Cirripedia: Pyrgomatidae) in Taiwan, with description of six new species." *J. Crustac. Biol.* **2013**, 33(3), 392-431. (IF: 1.096, Marine & Freshwater Biology, 68/105=64%).
2. **Hsiu-Chin Lin**, Philip A. Hastings. "Phylogeny and biogeography of a shallow water fish clade (Teleostei: Blenniiformes)." *BMC Evol. Biol.* **2013**, 13, 210-227. (IF: 3.628, Evolutionary Biology, 17/48=35%).
3. **Hsiu-Chin Lin**, Y. H. Wong, L. M. Tsang, K. H. Chu, P.-Y. Qian, Benny K. K. Chan. "First study on gene expression of cement proteins and potential adhesion-related genes of a membranous-based barnacle as revealed from Next-Generation Sequencing technology." *Biofouling* **2014**, 30, 169-181. (IF: 3.565, Marine & Freshwater Biology, 12/105=11%).
4. **Hsiu-Chin Lin**, Jens T. Høeg, Yoichi Yusa, Benny K.K. Chan. "The origins and evolution of dwarf males and habitat use in thoracican barnacles." *Mol. Phylogenet. Evol.* **2015**, 91, 1-11. (IF: 4.462, Evolutionary Biology, 10/48=20%).
5. **Hsiu-Chin Lin**, Jen-Ping, Chen, Benny K. K. Chan, Kwang-Tsao Shao. "The interplay of sediment characteristics, depth, water temperature, and ocean currents shaping the biogeography of lancelets (Subphylum Cephalochordata) in the northwest Pacific waters." *Mar. Ecol.* **2015**, 36(3), 780-793. (IF: 1.177, Marine & Freshwater Biology, 63/105=60%).
6. Elizabeth Christina Miller, **Hsiu-Chin Lin**, Philip A. Hastings. "Improved resolution and a novel phylogeny for the neotropical triplefin blennies (Teleostei: Tripterygiidae)." *Mol. Phylogenet. Evol.* **2016**, 96, 70-78. (IF: 4.462, Evolutionary Biology, 10/48=20%).
7. **Hsiu-Chin Lin**, Gregory Kolbasov, Benny K. K. Chan. "Phylogenetic relationships of Darwin's "Mr Arthrobalanus": the burrowing barnacles (Cirripedia: Acrothoracica)." *Mol. Phylogenet. Evol.* **2016**, 100, 292-302. (IF: 4.462, Evolutionary Biology, 10/48=20%).
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9. Benny K. K. Chan, Yi-Yang Chen, Yair Achituv, and **Hsiu-Chin Lin*** "Description of five new coral associated barnacles of the Genus *Trevathana* (Balanomorpha: Pyrgomatidae) in the Pacific waters." *Zootaxa* **2017**. in press. (IF: 0.911, Zoology, 87/163=53%).

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2. **Hsin-Yang Chang**, Chia-Cheng Chou, Min-Feng Hsu and Andrw H.J.Wang. (2014) Proposed carrier lipid-binding site of undecaprenyl pyrophosphate phosphatase from *Escherichia coli*. *J. Biol. Chem.* 289: 18719-18735. (IF: 5.0; Ranking: 66/289 in BIOCHEMISTRY & MOLECULAR BIOLOGY)
3. Agnieszka Mateja, Marcin Paduch, **Hsin-Yang Chang**, Anna Szydlowska, Anthony A. Kossiakoff, Ramanujan S. Hegde and Robert J. Keenan (2015) Structure of the Get3 targeting factor in complex

- with its membrane protein cargo. *Science*. 347: 1152-1155. (IF: 30.5; Ranking: 2/55 in MULTIDISCIPLINARY SCIENCES)
4. Shu-Tseng Lin, Chih-Wen Chiou, Yen-Lin Chu, Yu Hsiao, Yu-Fei Tseng, Yi-Chun Chen, Hsien-Jung Chen, **Hsin-Yang Chang** and Tse-Min Lee, (2016) Enhanced Ascorbate Regeneration Via Dehydroascorbate Reductase Confers Tolerance to Photo-Oxidative Stress in *Chlamydomonas reinhardtii*. *Plant Cell Physiol.* Jul 20. pii: pcw129. (IF: 4.9; Ranking: 17/212 in PLANT SCIENCES)
 5. **Hsin-Yang Chang***, Shu-Tseng Lin, Tzu-Ping Ko, Shu-Mei Wu, Tsen-Hung Lin, Yu-Ching Chang, Kai-Fa Huang and Tse-Min Lee* (2017) Enzymatic characterization and crystal structure analysis of *Chlamydomonas reinhardtii* dehydroascorbate reductase and their implications for oxidative stress, *Plant Physiol. Biochem.* 120, 144-155. (IF: 3.1; Ranking: 49/212 in PLANT SCIENCES)
 6. Manuel Maestre-Reyna[#], Shu-Mei Wu[#], Yu-Ching Chang, Chi-Chih Chen, Alvaro Maestre-Reyna, Andrew H.-J. Wang and **Hsin-Yang Chang*** (2017) In search of tail-anchored protein machinery in plants: reevaluating the role of arsenite transporters, *Scientific Report* 7:46022 | DOI: 10.1038/srep46022. (IF: 4.3; Ranking: 10/64 in MULTIDISCIPLINARY SCIENCES)
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 8. Christoph von Ballmoos, Irina Smirnova, Federica Poiana, Nathalie Gonska, **Hsin-Yang Chang**, Robert B. Gennis, Peter Brzezinski, and Pia A` delroth (2017) Dynamics of the KB Proton Pathway in Cytochrome ba3 from *Thermus thermophiles*, *Isr. J. Chem.* DOI: 10.1002/ijch.201600136. (IF: 2.5; CHEMISTRY, MULTIDISCIPLINARY)

劉商隱 Shang-Yin Vanson Liu (第一作者篇數：1，通訊作者篇數：1) 201508 到職

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4. Laurie Sorenson, Gerald R. Allen, Mark V. Erdmann, Chang-Feng Dai and Shang-Yin Vanson Liu* (2014) Pleistocene diversification of the *Pomacentrus coelestis* species complex (Pisces: Pomacentridae): historical biogeography and species boundaries. **Marine Biology** 161(11) (impact factor: 2.136, Marine and Freshwater 31/105)
5. Shang-Yin Vanson Liu, Chia-Ling Carynn Chan, Hernyi Justin Hsieh, Silvia Fontana, Carden C. Wallace and Chaolun Allen Chen (2015) Extremely low mitochondrial genomic variations in staghorn corals, *Acropora* (Scleractinia; Acroporidae) revealed by multiplex next-generation sequencing. **Marine Biology** 162 (6) (impact factor: 2.136, Marine and Freshwater 31/105)
6. Shang-Yin Vanson Liu, I-Hsiang Huang, Min-Yun Liu, Hung-Du Lin, Feng-Yu Wang and Te-Yu Liao* (2015) Genetic Stock Structure of *Terapon jarbua* in Taiwanese Waters. **Marine and Coastal fisheries** 7(1) 464-473 (impact factor: 1.177, Fisheries 28/50)
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8. Takefumi Nakazawa, **Shang-Yin Vanson Liu***, Yoichiro Sakai, Kiwako S. Araki, Cheng-Han Tsai and Noboru Okuda (2017). Spatial genetic structure and body size divergence in endangered *Gymnogobius isaza* in ancient Lake Biwa. Mitochondrial DNA Part A, 1-9.(期刊改名暫無 impact factor)

黃英哲 Ing-Jer Huang

與計畫相關之著作目錄如下：

(A)期刊論文

1. Chun-Hung Lai, Yun-Chung Yang, and Ing-Jer Huang (2014, Oct). A Versatile Data Cache for Trace Buffer Support. *IEEE Transactions on Circuits and Systems I- Regular Papers*, Vol. 61, Issue 11, page 3145-3154. (SCI).

(B)研討會論文

1. Yi-Ju Ke, Yi-Chieh Chen and Ing-Jer Huang (2017, Sep). An Integrated Design Environment of Fault Tolerant Processors with Flexible HW/SW Solutions for Versatile Performance/Cost/Coverage Tradeoffs. The 1th Int'l Test Conference in Asia (ITC-Asia), Taipei, Taiwan. 本人為第一作者、通訊作者。
2. Jyun-Yan Li and Ing-Jer Huang (2016, Oct). Full System Verification of Compatible Microprocessors with a Dual Physical Core Verification Platform. 13th International SoC Design Conference (ISODC), Jeju, Korea. 本人為第一作者、通訊作者。
3. Tsun-Hsin Chang, Shao-Chieh Hou and Ing-Jer Huang (2016, Oct). A Unified GDB-Based Source-Transaction Level SW/HW Co-Debugging. IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), Jeju, Korea. 本人為第一作者、通訊作者。
4. Hsu-Kang Dow, Ching-Hua Huang, Chun-Hung Lai, Kai-Hsiang Tsao, Sheng- Chih Tseng, Kun-Yi Wu, Ting-Hsuan Wu, Ho-Chun Yang, Da-Jing Zhang Jain, Yun-Nan Chang, Steve.W.Haga , Shen-Fu Hsiao, Ing-Jer Huang, Shiann-Rong Kuang, Chung-Nan Lee (2015, Apr). An OpenGL ES 2.0 3D Graphics SoC with Versatile HW/SW Development Support. International Symposium on VLSI Design, Automation and Test (VLSI-DAT), Hsinchu, Taiwan.
5. Shao-Chieh Hou, Hong-Wei Zhuang and Ing-Jer Huang (2014, Jun). Integration of C Source-Level Debugging and HW Tracing and Monitoring. Proc. DAC Workshop on System-to-Silicon Performance Modeling and Analysis, San Francisco, USA.
6. Ping-Chun Lee and Ing-Jer Huang (2014, May). Reconfigurable Bus Monitor Tool Suite for On-Chip SoC for Performance and Protocol Monitoring. 9th International Symposium on Reconfigurable Communication-centric Systems- on-Chip (ReCoSoC'2014), Montpellier, France.
7. Yi-Hao Chang , Chi-Tsai Yeh, Ing-Jer Huang, Shau-Yin Tseng (2012, Dec). A performance monitoring tool suite for 3D graphics SoC application. IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), Kaohsiung, Taiwan.
8. Cheng-Ta Wu, Feng-Xiang Huang, Kuan-Fu Kuo, Ing-Jer Huang (2012, Apr). An OCP-AHB Bus Wrapper with Built-in ICE Support for SOC Integration. International Symposium on VLSI Design, Automation and Test (2012 VLSI- DAT), Taiwan.

專利名稱	專利國別	證號	發明人	被授權的單位
(1)具有自動備份及還原暫存器內資料之系統及方法 (Automatic Register Backup/Restore System and Method)	中華民國 (R.O.C.)	I223756	黃英哲 宋裕文	耘碩科技、奇景光電、S&Q (倚強科技)
	美國 (U.S.A.)	US 7143271 B2		
	中國大陸 (P.R.O.C.)	ZL200410080522.3		
(2)多重測試指令集切換系統及方法 Multiple Test Instruction Set Switching System and Method	中華民國 (R.O.C.)	I243985	黃英哲 高仲甫	工研院、國立中正大學、奇景光電、S&Q (倚強科技)
(3)切片轉換式資料壓縮方法與系統 Data Compression Method and System Based on a Slicing and Transformation Approach	中華民國 (R.O.C.)	I245497	黃英哲 黃世明	法國 Temento 公司
(4)反相壓縮系統及方法 Backward Compression System and Method	中華民國 (R.O.C.)	I387873	黃英哲 楊馥璟	創意電子、法國 Temento 公司、虹晶科
	美國 (U.S.A.)	US 7,956,775 B2		

本項專利獲頒以下獎項： 2011 紐倫堡國際發明展金牌 2013 日內瓦國際發明展銀牌 2013 台北國際發明展金牌 經濟部「103 年國家發明創作獎」發明獎銀牌				技、工研院
(5)應用於循環記憶體之壓縮資料管理系統及方法 The System and Method for Managing the Compressed Data In a Circular Buffer	中華民國 (R.O.C.)	I413899	黃英哲 楊馥璟	創意電子
	美國(U.S.A.)	US 8,332,551 B2		
(6)應用於循環存儲器的壓縮數據管理的系統及方法	中國大陸 P.R.O.C.	ZL 2009 1 0209429.0	黃英哲 楊馥璟	創意電子
(7)利用快取記憶體之資料追蹤系統及方法 Data Trace System and Method Using Cache	中華民國 (R.O.C.)	I411914	黃英哲 賴俊宏	
(8) 可儲存除錯資料的處理器、其快取及控制方法 Processor and Cache, Control Method Thereof for Data Trace Storage	中華民國 (R.O.C.)	I514145	黃英哲 賴俊宏	
	美國(U.S.A.)	US 9436611B2		
(9)快取記憶體 Cache Memory	中華民國 (R.O.C.)	I514148	黃英哲 賴俊宏 楊允中	
	美國(U.S.A.)	US 9,632,951 B2		
(10) 電腦繪圖之緩衝區清除裝置與方法	中華民國 (R.O.C.)	I471819	黃英哲	
	美國 (U.S.A.)	申請號13/657,815		

蕭勝夫 Shen-Fu Hsia

(A)期刊論文

1. Shen-Fu Hsiao; Chia-Sheng Wen; Yi-Hau Chen; Kuei-Chun Huang (2017, Jan). Hierarchical Multipartite Function Evaluation. *IEEE Transactions on Computers*, vol. 66, no. 1, pp. 89-99. MOST 104-2220-E-110-002. 本人為第一作者、通訊作者。
2. Shen-Fu Hsiao, Po-Han Wu, Chia-Sheng Wen, and Pramod Kumar Meher, (2015, May). Table-Size Reduction Methods for Faithfully-Rounded Look-Up-Table-Based Multiplierless Function Evaluation. *IEEE Trans. Circuits and Systems, Part-II*, vol. 62, no. 5, pp. 466-470. (SCI). MOST 103-2220-E-110-002. 本人為第一作者、通訊作者。
3. Shen-Fu Hsiao, Hou-Jen Ko, Yu-Ling Tseng, Wen-Liang Huang, Shin-Hung Lin, and Chia-Sheng Wen (2013, May). Design of Hardware Function Evaluators Using Low-Overhead Non-uniform Segmentation with Addressing Remapping. *IEEE Trans. VLSI Systems*, vol. 21, no. 5, pp. 875-886. (SCI). NSC 100-2220-E-110-003. 本人為第一作者、通訊作者。
4. Shen-Fu Hsiao, Jun-Hong Zhang Jian, and Ming-Chih Chen (2013, May). Low-Cost FIR Filter Designs Based on Faithfully-Rounded Truncated Multiple Constant Multiplications-Accumulation. *IEEE Trans. Circuits and Systems, Part-II*, vol. 60, no. 5, pp. 287-291. (SCI). 本人為第一作者、通訊作者。
5. Shen-Fu Hsiao, Hou-Jen Ko, and Chia-Sheng Wen (2012, May). Two-Level Hardware Function Evaluation Based on Correction of Normalized Piecewise Difference Functions. *IEEE Trans. Circuits and Systems, Part-II*, vol. 59, no. 5, pp. 292-296. (SCI). NSC 100-2220-E-110-003. 本人為第一作者、通訊作者。

(B)研討會論文

1. Shen-Fu Hsiao and Tz-Heng You (2017, Oct). Hardware Efficient Implementation of Histograms of

- Oriented Gradients for Pedestrian Detection. IEEE Global Conference on Consumer Electronics, Nagoya, Japan. 本人為第一作者、通訊作者。
2. Shen-Fu Hsiao and Kuei-Chun Huang (2016, Oct). Low-Power Dual-Precision Table-Based Function Evaluation Supporting Dynamic Precision Changes. Proc. IEEE Asia Pacific Conference on Circuits and Systems (APCCAS), Jeju, Korea. 本人為第一作者、通訊作者。
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 5. Shen-Fu Hsiao, Po-Sheng Wu, and Jun-Mao Chan (2015, May). VLSI Implementation of Feature Extraction in Image Processing and Computer Vision. Intl. Conf. Applied System Innovation, Osaka, Japan. 本人為第一作者、通訊作者。
 6. Hsu-Kung Dow, Ching-Hua Huang, Chun-Hung Lai, Kai-Hsing Tsao, Sheng-Chih Tseng, Kun-Yi Wu, Ting-Hsuan, Ho-Chun Yang, Da-Jing Zhang Jain, Yun-Nan Chang, Steve Haga, Shen-Fu Hsiao, Ing-Jer Huang, Shiann-Rong Kuang, and Chung-Nan Lee (2015, Apr). An OpenGL ES 2.0 3D Graphics SoC with Versatile HW/SW Development Support. Intl. Symp. VLSI Design, Automation and Test (VLSI-DAT).
 7. Shen-Fu Hsiao, Jun-Ming Huang, and Po-Sheng Wu (2014, Nov). VLSI Implementation of Belief-Propagation-Based Stereo Matching with Linear-Model Message Update. Asia Pacific Conference on Circuits and Systems (APCCAS), Ishigaki, Japan. 本人為第一作者、通訊作者。
 8. Shen-Fu Hsiao, Chia-Sheng Wen, and Po-Han Wu (2014, Aug). Compression of Lookup Table for Piecewise Polynomial Function Evaluation. 17th Euromicro Conf. on Digital Systems Design (DSD), Verona, Italy. 本人為第一作者、通訊作者。
 9. Shen-Fu Hsiao, Guan-Fu Yeh, and Je-Chi Chen (2014, Aug). Design and Implementation of Multiple-Vehicle Detection and Tracking Systems with Machine Learning. 17th Euromicro Conf. on Digital Systems Design (DSD), Verona, Italy. 本人為第一作者、通訊作者。
 10. Shen-Fu Hsiao and Pu-Cheng Wu (2014, Jun). Design of Low-Leakage Multi-Port SRAM for Register File in Graphics Processing Unit,. Intl. Symp. Circuits and Systems (ISCAS), Melbourne, Australia. 本人為第一作者、通訊作者。
 11. Shen-Fu Hsiao, Wen-Ling Wang, and Po-Sheng Wu (2014, Apr). VLSI Implementation of Stereo Matching Based on Dynamic Programming,. IEEE Intl. Symp. on VLSI Design, Automation and Testing (VLSI-DAT), Hsinchu, Taiwan. 本人為第一作者、通訊作者。
 12. Shen-Fu Hsiao, Hou-Jen Ko, Yu-Ling Tseng, and Chia-Sheng Wen (2013, Oct). A New Design Methodology for Rounding and Hardware Minimization in Look-Up-Table-Based Arithmetic Function Evaluation. 18th Workshop on Synthesis and System Integration of Mixed Information Technologies (SASIMI), Sapporo, Japan. 本人為第一作者、通訊作者。
 13. Shen-Fu Hsiao, Po-Han Wu, Chia-Sheng Wen, and Li-Yao Chen (2013, Apr). Design of a Programmable Vertex Processor in OpenGL ES 2.0 Mobile Graphics Processing Units. IEEE Intl. Symp. on VLSI Design, Automation and Testing (VLSI-DAT). 本人為第一作者、通訊作者。
 14. Shen-Fu Hsiao, Chia-Sheng Wen, Cheng-Han Lee, and Andrew Lee (2012, Dec). Low-Cost Designs of Rectangular to Polar Coordinate Converters for Digital Communication. IEEE Asia Pacific Conf. on Circuits and Systems (APCCAS). 本人為第一作者、通訊作者。
 15. Shen-Fu Hsiao, Chi-Guang Lin, Po-Han Wu, and Chia-Sheng Wen (2012, Dec). Asynchronous AHB Bus Interfaces Designs in a Multiple-Clock-Domain Graphics System. IEEE Asia Pacific Conf. Circuits and Systems. NSC 100-2220-E-110-004. 本人為第一作者、通訊作者。
 16. Shen-Fu Hsiao and Guan-Fu Yeh (2012, Aug). Software and Hardware Designs of a Vehicle Detection System with Machine Learning. IPPR Conf. on Computer Vision, Graphics, and Image Processing . 本人為第一作者、通訊作者. (Best Paper Award).
 17. Shen-Fu Hsiao, Hou-Jen Ko, Yu-Ling Tseng, and Chia-Sheng Wen (2012, Aug). Hardware-Efficient Function Evaluation Based on Joint Consideration of All Error Sources. Proc. 22th VLSI Design/CAD Symp.. 本人為第一作者。

18. Shen-Fu Hsiao, J.-Wen Cheng, Wen-Ling Wang, and Guan-Fu Yeh (2012, May). Low Latency Design of Depth-Image-Based Rendering Using Hybrid Warping and Hole-Filling. Intl. Symp. Circuits and Systems (ISCAS). 本人為第一作者、通訊作者

鄭獻榮 Shiann-Rong Kuang

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1. Shiann-Rong Kuang, Chih-Yuan Liang, and I-Ping Tseng, "A Low-Power Codeword-Based Viterbi Decoder with Fine-Grained Error Detection and Correction Techniques," *Arabian Journal for Science and Engineering*, Published online: 20 July 2017. (SCI)
2. Shiann-Rong Kuang, Chih-Yuan Liang, and Ming-Fong Chang, "A Multi-functional Multi-precision 4D Dot Product Unit with SIMD Architecture," *Arabian Journal for Science and Engineering*, Vol. 41, No. 8, pp. 3139–3151, August 2016. (SCI)
3. Shiann-Rong Kuang, Chih-Yuan Liang, and Chun-Chi Chen, "An Efficient Radix-4 Scalable Architecture for Montgomery Modular Multiplication," *IEEE Transactions on Circuits and Systems Part II: Express Briefs*, Vol. 63, No. 6, pp. 568–572, June 2016. (SCI, EI)
4. Shiann-Rong Kuang, Kun-Yi Wu, and Ren-Yao Lu, "Low-Cost High-Performance VLSI Architecture for Montgomery Modular Multiplication," *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, Vol. 24, No. 2, pp. 434–443, February 2016. (SCI, EI)
5. S.-R. Kuang and K.-Y. Wu, "Low-Energy Instruction Precision Assignment for Multi-Mode Multiplier under Accuracy and Performance Constraints," *Arabian Journal for Science and Engineering*, Vol. 40, No. 3, pp. 787–798, March 2015. (SCI)
6. Shiann-Rong Kuang, Kun-Yi Wu, Bao-Chen Ke, Jia-Huei Yeh, and Hao-Yi Jheng, "Efficient architecture and hardware implementation of hybrid fuzzy-Kalman filter for workload prediction," *Integration, the VLSI Journal*, Vol. 47, No. 4, pp. 408–416, September 2014. (SCI, EI)
7. Shiann-Rong Kuang, Jiun-Ping Wang, Kai-Cheng Chang, and Huan-Wei Hsu, "Energy-Efficient High-Throughput Montgomery Modular Multipliers for RSA Cryptosystems," *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, Vol. 21, No. 11, pp.1999–2009, November 2013. (SCI, EI)
8. Kun-Yi Wu, Shiann-Rong Kuang, and Kee-Khuan Yu, "An Exact Method for Estimating Maximum Errors of Multi-mode Floating-point Iterative Booth Multiplier," *International Journal of Computational Science and Engineering*, Vol. 8, No. 4, pp. 306–315, October 2013. (EI)
9. Shiann-Rong Kuang, Kun-Yi Wu and Kee-Khuan Yu, "Energy-Efficient Multiple-Precision Floating-Point Multiplier for Embedded Applications," *Journal of Signal Processing Systems*, Vol. 72, No. 1, pp. 43–55, July 2013. (SCI, EI)

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二、五年來在東沙國際海洋研究站進行研究的發表

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