104 年度科技部工程司專題計畫主持人近五年成果績效表

申請人於申請截止日前 5 年內曾生產、請育嬰假者，研究成果評比年限得延長至 7 年，曾服國民義務役者，得依實際服役時間予以延長，但應檢附相關證明文件。申請人有前述情形者，除請檢附證明文件外，並請至「研究人才個人網」中更新「著作目錄」資料，其著作目錄學術著作選取得延長之期間。

姓名： 陳履恆 職稱：副教授

服務單位：國立暨南國際大學資訊工程學系

一、 近五年內最具代表性之學理創新或應用技術突破(至多五項)。並請簡述國內外相關研究成果之比較。

1. 有關資訊視覺化(Information Visualization)之研究，發表論文:

- Lieu-Hen Chen, Yu Sheng Chen, Wei Fan Chen, Hao Ming Hung, Yasufumi Takama, "A Temporal and Multi-Resolution Visualization System for Large-Scale Data", the Journal of Information Science and Engineering, Vol. 31 , No. 1, Jan, 2014. (SCI indexed)
- Chia-Huang Chen, Lieu-Hen Chen, Yasufumi Takama, "Proposal of Situation-based Clustering of Sightseeing Spot Images based on ROI-based Color Feature Extraction", The 26th Annual Conference of the Japanese Society for Artificial Intelligence, 2012.

2.有關Global Illumination Method 之研究，發表論文：

- "Grouped Photon Mapping", The Visual Computer, International Journal of Computer Graphics, pp217~226, Vol. 26(3), March 2010, Springer-Verlag. (SCI indexed)
- "Parallel Grouped Photon Mapping using CUDA", paper ID 579, The 2010 International Symposium on Intelligent Systems.
- "使用CUDA 平行化加速Grouped Photon Mapping Method", Computer Graphics Workshop 2010.

3. 有關NPR 之研究，發表論文：

- "Aging and Reverse-Aging Traditional Chinese Painting Images Based on Web-Mining", pp285~309, Vol. 31, No.4, 2013, New Generation Computing.(SCI indexed)
- "Synthesizing Non Photo-Realistic Rendering Effects of Volumetric Strokes", the Journal of Information Science and Engineering, pp. 521~535, vol. 28(3), 2012. (SCI indexed)
- "Simulating Aging and Reverse-Aging Phenomena of Traditional

Chinese Paintings", the 26th Annual Conference of the Japanese Society for Artificial Intelligence, 2012.

4. 有關AR 之研究，發表論文：

- "An Edutainment System on the Converged Mobile Phone for Traditional Culture Popularization – Taking Chinese Chess as an Example", IEEE Multidisciplinary Engineering Education Magazine, Vol.5, No.3, pp.1-9, 2010.
- Lieu-Hen Chen, Wei-Fen Hsieh, Eri Sato-Shimokawara, Yasufumi Takama,Toru Yamaguchi (2013, Dec). An ICF Decision Supporting System Based on Sensoring Technologies. 2013 Conference on Technologies and Applications of Artificial Intelligence (TAAI 2013), 台灣台北. International session.
- Lieu-Hen Chen, Pin-Chieh Cheng, Jheng-Yan Guo, Shun-Chin Hsu (2013, Oct). A Mobile Edutainment System of MiniShogi. The 3rd International Workshop on Advanced Computational Intelligence and Intelligent Informatics (IWACIII 2013) , 中國上海. International session.
- 洪晧銘,季昭霆,許力之,陳履恆,石凌霖 （2013 年12 月）。以 Xtion 為基礎的客製化舞蹈動作。2013 全國計算機會議。
- 洪晧銘, 謝薇棻 ,莊士賢,陳履恆（2013年07月）。運用感測技術為基礎的ICF 評核系統。2013台灣電腦圖學研討會 。

5.有關LOD 之研究，發表論文：

- "Perceptual LOD under Low Resolution Conditions", the Journal of Information Science and Engineering, pp. 1045~1057, Vol. 27(3), May, 2011. (SCI indexed)
- "A Visualization System for Animating Vertebrate Animal Models", the 2012 Conference on Technologies and Applications of Artificial Intelligence, 2012.
- "A LOD System based on Biological Classification and Anatomical Skeleton", The 14th International Conference on Geometry and Graphics, 2010.

二、近五年協助產業發展績效：技術移轉、著作授權、產學合作、協助產業發展、實作研究上之成果與貢獻、產業規範/標準之建立，以及國防與太空科技之研究與貢獻等。

三、近五年國內外之成就與榮譽(請註明名稱及日期)：例如 1.獲得國內外重要獎項及其他榮譽，2.國際研討會邀請專題演講或規劃委員，3.國際重要委員會之委員。

四、近五年在人才培育、研究團隊建立及服務方面的重要貢獻及成就：獲得各類教學獎項；所指導之學生曾獲之獎項及特出之表現

（以上四項內容請勿超過五頁）

五、近五年內(2010~2014)已發表重要期刊論文、書籍、重要國際會議論文情形(至多 5 篇)

	論文資料：請依發表時間之先後順序填寫，內容依序包括作者姓名(依原出版順序，通訊作者請加註*)、題目、期刊名稱(或會議論文)、卷數、起訖頁數及出版年，並註明是否為 SCI 或 SSCI 期刊(如為 SCI/SSCI 論文請加註該期刊所屬研究領域[1])。
1	Lieu-Hen Chen*, Meng-Feng Tsai, Chien-Hui Hsu, Yu-Sheng Chen, “Aging and Reverse-Aging Traditional Chinese Painting Images Based on Web-Mining”, pp285~309, Vol. 31, No.4, 2013, New Generation Computing.
2	Lieu-Hen Chen*, Tsung-Chih Tsai, and Yu-Sheng Chen, “Grouped Photon Mapping”, The Visual Computer, International Journal of Computer Graphics, pp217~226, Vol. 26, Issue 3, March. 2010,Springer-Verlag. (SCI indexed)
3	Lieu-Hen Chen, Yu Sheng Chen, Wei Fan Chen, Hao Ming Hung, Yasufumi Takama, “A Temporal and Multi-Resolution Visualization System for Large-Scale Data”, the Journal of Information Science and Engineering, Vol. 31 , No. 1, Jan, 2014. (SCI indexed)
4	Lieu-Hen Chen*, Yi-Hsien Chen, Shuo-Yan Lin, Ting-Yu Liu, Wen-Chien Hsieh, “Synthesizing Non Photo-Realistic Rendering Effects of Volumetric Strokes”, the Journal of Information Science and Engineering, pp. 521~535, vol. 28(3), 2012. (SCI indexed)
5	Lieu-Hen Chen*, Yu-Sheng Chen, Tsung-Chih Tsai, “Perceptual LOD under Low Resolution Conditions”, the Journal of Information Science and Engineering, pp. 1045~1057, Vol. 27(3), May, 2011. (SCI indexed)

註：1.SCI/SSCI 論文所屬研究領域，請參照 ISI Essential Science Indicators 之劃分。