

# Curriculum Vitae

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## Curriculum Vitae

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### 1. Personal Information and Professional Positions

#### ● Education

- BS, National Taiwan University, Dept. of Computer Science and Information Engineering. (1981-1985)
- MS, National Tsing-Hua University, Dept. of Computer Science (1985-1987)
- PHD, Ohio State University, Computer and Information Science (1990.9-1994.1)

#### ● Professional Positions

1. Engineer, D-LINK (1990)
2. Associate Professor, Chung-Hua University, Dept. of Computer Sci. and Info. Engr. (1994.1~1996.7)
3. Associate Professor, National Central University, Dept. of Computer Sci. and Info. Engr. (1996.8~1999.7)
4. Professor, National Central University, Dept. of Computer Sci. and Info. Engr. (1999.8~2000.7)
5. Adjunct Professor, National Central University, Dept. of Computer Sci. and Info. Engr. (2000.8~2004.07)
6. Professor, National Chiao-Tung University, Dept. Computer Sci. and Info. Engr. (2000.8~present)
7. Visiting Scholar: Academia Sinica, 2001.07~09.
8. Visiting Scholar: Academia Sinica, 2002.07~09.
9. Chief Executive Officer, ITRI-NCTU Joint Research Center. (2005.01~present, 工研院與交通大學聯合研發中心/執行長)
10. Chapter Chair, IEEE Vehicular Technology Society, Taipei Section, 2006~2008.
11. BoG Member, *Asia Pacific Wireless Communications Symp. (APWCS)*, 2006-present. (APWCS annual symposiums are regularly rotated among Korea, Japan, Taiwan, and Singapore to gather Asia researchers together.)
12. Vice Chairman, Dept. of Computer Sci. and Info. Engr., National Chiao-Tung University (2004.07~2005.07)
13. Chairman, Department of Computer Science, National Chiao-Tung University (2005.08~2009.07)

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## Curriculum Vitae

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14. Chair Professor, Dept. of Information and Computer Engineering, Chung Yuan Christian University (joint appointment, 2006.08~2010.07)
15. Research Fellow, Academia Sinica, Taiwan (joint appointment, 2009/06~2014/07, 中央研究院/資訊科技創新研究中心/合聘研究員)
16. Deputy Executive Officer, National Networked Communications Program (2009.08~present, 網路通訊國家型科技計畫/副執行長)
17. Associate Dean, College of Computer Science, National Chiao-Tung University, Taiwan (2007.08~2011.07)
18. Program Director, Computer Science Division, National Science Council, Taiwan (國科會資訊工程(I)學門召集人, 2010.01~2012.12)
19. Distinguished Professor, National Chiao-Tung University (特聘教授, 2010.08~2011.01)
20. Chair Professor, National Chiao-Tung University (講座教授, 2011.02~2017.01)
21. Dean, College of Computer Science, National Chiao-Tung University, Taiwan (2011.08~present)

## 2. Research Areas

- **IoT Technologies, Wearable Computing**
- **Body-Area Networks.**
- **Vehicular Networks.**
- **Wireless Applications: location-based services, e-life.**
- **Broadband Wireless Networks: WiMax, WiFi, 3G Networks and Beyond.**
- **Wireless Sensor Networks:** communication protocols, power-saving, coverage, mobile sensor, ZigBee.
- **Wireless Networks and Mobile Computing:** wireless communications, mobile ad hoc networks, bluetooth technology, WCDMA, MAC protocols, power management, routing.
- **Video-on-Demand:** broadcasting technologies.
- **Parallel and Distributed Computing:** interconnection networks, inter-processor communication, wormhole routing, fault-tolerant computing.
- **Network Security:** digital watermark, steganography.

## 3. Research Activities

# Yu-Chee Tseng

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### 3-1. Impact Factors

- h-index: 55 ([Google Scholar](#), Sept. 2014)
- h-index: 21 (Web of Science, Feb. 2011)
- Accumulative citations: 14000+ (Google Scholar, Oct. 2013)
- Listed in the top-20 authors, in terms of the number of papers published, 1995-2005, in the area of "Wireless and Mobile Networks", according to Thomson's ESI analysis. (See <http://www.esi-topics.com/wireless/authors/b1b.html>, where he was listed in the 6th position.)
- Listed in the top-20 authors, in terms of cites per paper, 1995-2005, in the area of "Wireless and Mobile Networks", according to Thomson's ESI analysis. (See <http://www.esi-topics.com/wireless/authors/b1c.html>, where he was listed in the 12th position.)
- Top-25 downloaded article ("From Wireless Sensor Networks towards Cyber Physical Systems", appeared in *Pervasive and Mobile Computing*, 2011)

### 3-2. Awards and Recognitions

1. **Outstanding Research Awards**, National Science Council, Taiwan (國科會傑出研究獎, 獲獎期間: 2001.08~2003.07, 2003.08~2006.07, and 2009.08~2012.07).
2. 國科會"傑出學者研究計畫/計畫主持人" (2008.08-2009.07)
3. 國科會"特約研究計畫/計畫主持人" (2012.08-2015.07)
4. **Distinguished Guest Lecturer**, Computer and Info. Science Dept., Ohio State Univ., 2002.
5. **IEEE Senior Member** (2003~2011).
6. **IEEE Fellow** (class of 2012, citation "For Contributions to Wireless and Mobile Networks")
7. **Elite Information Technology Award**, 2004. (九十三年資訊月「傑出資訊人才獎」)
8. **Distinguished Alumnus Award**, 2005, The Ohio State University. ([citations](#))
9. **K. T. Li Breakthrough Award**, Institute of Information & Computing Machinery, 2005. (李國鼎穿石獎) (award-speech-k-t-li.ppt)
10. **Outstanding EE Professor Award**, The Chinese Institute of Electrical Engineering, 2005. (中國電機工程學會, 傑出電機工程教授獎)

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## Curriculum Vitae

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11. **Certificate of Completion**, "A Survey of Solutions to the Coverage Problems in Wireless Sensor Networks", published in *Journal of Internet Technology*, 2005, for being the highest cited paper in the journal (as of 2011/09).
12. **Y. Z. Hsu Scientific Paper Award**, "Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network", Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation, 2009. (第七屆有庠科技論文獎, "針對無線感測網路之有效率的感測點佈署與派遣方法")
13. **Y. Z. Hsu Scientific Chair Professor** (第十屆有庠科技講座教授, 通訊光電類, 2012/08~2013/07).
14. 第二十屆東元獎, 電機/資訊/通訊領域, 2013. ([TECO award link](#))
15. 交通大學, 產學技術交流卓越貢獻獎-銅羽獎, 2013.
16. 教育部第 58 屆學術獎, 2014. (工程及應用類)
17. 潘文淵文教基金會, 傑出研究獎, 2015.

### 3-3. Paper/Demo Awards

1. **Distinguished Paper**, *Euro-Par Conference*, 1999 (S.-Y. Wang, Y.-C. Tseng, S.-Y. Ni, and J.-P. Sheu, "Circuit-Switched Broadcasting in Multi-Port Multi-Dimensional Torus Networks", pp. 1209-21)
2. **Best Paper Award**, Int'l Conf. on Parallel Processing, 2003 (J.-R. Jiang, Y.-C. Tseng, C.-S. Hsu, and T.-H. Lai, "Quorum-Based Asynchronous Power-Saving Protocols for IEEE 802.11 Ad Hoc Networks")
3. **Excellent Paper Award**, The 10th Mobile Computing Workshop, 2004 (J.-R. Jiang, Y.-C. Tseng, and B.-R. Linn, "A Mechanism for Quick Bluetooth Device Discovery")
4. **Best Paper Award**, National Computer Symposium, 2005 (P.-Y. Wu, Y.-C. Tseng, and H. Lee, "Design of QoS and Admission Control for VoIP Traffics over IEEE 802.11e WLANs")
5. **Demonstration in Keynote Speech**, **Intel Development Forum**, Fall 2005, Taiwan: The iMouse System (intelligent mobile surveillance system by wireless sensor networks)
6. **Acer Dragon Paper Award**, 2005, by Acer Foundation (第十九屆宏碁龍騰知識經濟論文優等獎)
7. **Best Demo Award**, "Geo-Fingerprint Service", Microsoft Research Asia, Faculty Summit, 2008. (with Prof. W.-C. Peng)
8. **Outstanding Demo Award**, "VS3: A Vehicular Surveillance and Sensing System for

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## Curriculum Vitae

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- Security Applications", IEEE MASS, 2009. (by L.-W. Chen, K.-Z. Syue, and Y.-C. Tseng)
9. **Best Demo Award**, "A Wireless Human Motion Capturing System for Home Rehabilitation", Mobile Data Management, 2009. (by Y.-C. Tseng, C.-H. Wu, F.-J. Wu, C.-F. Huang, C.-T. King, C.-Y. Lin, J.-P. Sheu, C.-Y. Chen, C.-Y. Lo, C.-W. Yang, and C.-W. Deng)
  10. **Best Paper Award**, "雙層式長鏈狀車載網路之高效率資料收集與散佈機制", Workshop on Wireless Ad Hoc and Sensor Networks, 2010 (by L.-W. Chen, Y.-H. Peng, Y.-C. Tseng, and D.-C. Chang)
  11. **Best Paper Award**, "Lane-Level Dynamic Traffic Control for Fairness and Throughput Optimization Based on Vehicular Ad Hoc Networks", Workshop on Wireless, Ad Hoc, and Sensor Networks (WASN), 2013 (by L.-W. Chen, P. Sharma, Y.-C. Tseng, and C.-C. Chang)
  12. **Best Demo Award**, "CityEye: A Cooperative Lane-Level Traffic Control System Based on Vehicular Ad Hoc Networks", *Mobile Computing Workshop*, 2013 (by L.-W. Chen, C.-C. Chang, P. Sharma, and Y.-C. Tseng).
  13. **Best Paper Award**, "Optimal Emergency Guiding for Individuals Based on Spatial-Temporal Mobility Analysis", *National Computer Symposium*, 2013 (by L.-W. Chen, J.-H. Cheng, Y.-C. Tseng, and P.-C. Chou).
  14. **Best Paper Award**, "Continuous Human Location and Posture Tracking by Multiple Depth Sensors", *IEEE Int'l Conf. on Internet of Things (iThings)*, 2014.
  15. **Best Demo Award**, "Video-Based Metropolitan Positioning System with Centimeter-Grade Localization for VANETs", *IEEE PerCom*, 2015, St. Louis, Missouri, USA.

### 3-4. Awards Won by Students Advised

1. **National Software Design Contest, 2<sup>nd</sup> place**, "A Location-aware Tourguide System", with P.Y. Wu, C. C. Wu, and Y. C. Wang, 2002, by National Center for High-Performance Computing, Taiwan. (國家高速電腦中心, 第二屆軟體設計比賽第二名, "一起出去玩", 吳佩擘, 胡君琪, 王友群同學, 2002)
2. **Annual Best Paper Award**, Chinese Institute of EE Society, with T. Y. Hsieh, 2002. (九十一年中國電機工程學會, 青年論文獎第二名, 謝天元同學)
3. **National MobileHeros Programming Contest, 2<sup>nd</sup> place**, "Location-aware System and Service", with S. P. Kuo, S. M. Chen, and S. R. Kuo, 2003. (第二屆無線夢想行動家,

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## Curriculum Vitae

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- 無線通訊軟體競賽第二名, 郭聖博, 陳淑敏, 郭曉儒同學, 2003)
4. **Annual Best Paper Award**, 1st place, Chinese Institute of EE Society, "Event-Driven Messaging Services over Integrated Cellular and Wireless Sensor Networks: Prototyping Experiences of a Visitor System", with Y. K. Liu, 2004. (九十三年中國電機工程學會, 青年論文獎第一名, "整合行動電話網路及無線感測網路之事件驅動訊息系統", 劉衍谷同學)
  5. **National Communication Contest**, 1<sup>st</sup> place, Ministry of Education, Taiwan, "An Ad Hoc Network-Based Home VoIP System", with L. Li, P. H. Lee, J. Z. Chen, and Q. Wu, 2004. (教育部九十二學年度大專校院通訊科技專題製作競賽, 研究所組, 優勝獎, 吳坤熹, 李凌, 李沛鴻, 陳建志同學)
  6. **Annual Best Paper Award**, 3rd place, Chinese Institute of EE Society, "Decentralized Energy-Conserving and Coverage-Preserving Protocols for Wireless Sensor Networks", with L.-C. Lo, 2005. (九十四年中國電機工程學會, 青年論文獎第三名, "無線感測網路中省電並維持覆蓋程度之分散式協定", 羅立竹同學)
  7. 「第 14 屆思源創意競賽」金竹獎, 2005 (獲獎學生:游敦皓, 吳秉禎, 林慧榛, 呂依璇).
  8. 「第 14 屆思源創意競賽」銀竹獎, 2005 (獲獎學生:范日中, 顏宗信, 林素貞).
  9. **National Communication Contest**, 2<sup>nd</sup> place, Taiwan, 2005, "Indoor Security and Emergency Navigation Services by Wireless Sensor Networks", awarded by Ministry of Education, with Y. Y. Tsai, C. H. Tsai, M. S. Pan, and C. F. Huang. (教育部九十三年「通訊競賽」研究所組優等獎, 蔡岳洋, 蔡佳宏, 潘孟鉉, 黃啟富, 題目: 以無線感測器網路實作室內安全監控以及緊急逃生導引系統)
  10. 中華民國電腦學會優良論文獎佳作, "IEEE 802.11e 無線網路中 VoIP 傳輸品質保證與允入", 吳佩擘, 曾煜棋, 李弘威 (2005)
  11. 中華民國資訊學會碩博士最佳論文獎佳作, "藉由無線感測器網路建立一室內 3D 環境下的緊急導引系統", 蔡佳宏, 曾煜棋 (2006)
  12. 智慧化居住空間情境模擬創作競賽, 第三名, "以無線感測網路為基礎之智慧型室內燈光調節系統", 葉倫武、潘孟鉉、林育萱、廖家良、曾煜棋 (2007)
  13. 中華民國資訊學會最佳論文獎佳作, " ZigBee 無線感測網路之通訊協定與應用設計", 潘孟鉉 (2008)
  14. 中華電信, 2008 電信加值應用大賽, 3G 行動數位生活組第二名, "GeoAds - 個人化位置感知廣告系統"
  15. IICM 博士論文獎/佳作, "設計及實作在大型無線網路下的樣本比對定位系統", 郭聖博 (2009).
  16. 第九屆旺宏金砂獎/銅獎, "以無線感測器網路為基礎之智慧型節能燈光調控系統",

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## Curriculum Vitae

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- 葉倫武, 呂哲彥, 林育萱, 高志偉 (2009)
17. 第九屆旺宏金矽獎優勝獎, "GEO 定位王", 羅榮鐘、許藍尹、吳宗衡、林宗慶 (2009)
  18. 第九屆旺宏金矽獎優勝獎, "智慧型展場導覽系統", 葉倫武、羅榮鐘、徐敏修、許藍尹 (2009)
  19. RFID 校園創意競賽, 佳作, "智慧型展場導覽系統", 許藍尹, 葉倫武, 羅榮鐘, 高志偉 (2009)
  20. 網路通訊軟體與創意應用競賽, 系統設計組/第二名, "以無線感測網路為基礎之社群交友應用平台", 巫芳璟, 朱峰儀 (2010).
  21. 大專院校資訊服務創新競賽, 整合應用組/第一名, 整合應用組/4C 主題獎, Google 企業創新應用組/第一名, "GoBike 樂活車隊社群系統", 彭昱豪, 鄭任翔 (2010).
  22. IICM 博士論文獎/佳作, "行動寬頻網路之省電與資源管理", 陳建志 (2010).
  23. 第八屆育秀盃, 榮獲評審特別獎 (2011.04).
  24. 網路通訊軟體與創意應用競賽, 系統設計組/第二名, 手機應用組/佳作. (2011. 05)
  25. Google Anita Borg Scholarship, 2011 (winner: Fang-Jing Wu).
  26. 台灣電機電子工程學會, 最佳博士論文獎, 佳作, 梁家銘 (2011).
  27. "Project Green Light", Second Prize of Audience Award, European Satellite Navigation Competition (ESNC), 2011. (winner: Lien-Wu Chen, 吳建澄, 鄭任翔, Pranay Sharma)

### 3-5. Journal Editorship

#### ● Editorial Boards

1. Associate Editor, **The Computer Journal**, Oxford University Press (2001~2012).
2. Editorial Board, **Journal of Information Science and Engineering**, 2002.08~2008.12.
3. Editorial Board, **Tamsui Oxford Journal of Mathematical Sciences**, 2002-present.
4. Editorial Board, **Int'l Journal of Ad Hoc and Ubiquitous Computing**, 2004-present.
5. Editorial Board, **Wireless Communications and Mobile Computing**, Wiley, 2004-2006.
6. Editorial Board, **Int'l Journal of Pervasive Computing and Communications**, Troubador Pub., 2004-2010.
7. Editorial Board Member, 臺南大學南大學報, 2005.8-2006.7.
8. Editorial Board Member, **Int'l Journal of Sensor Networks (IJSNet)**, 2005-2013.
9. Associate Editor, **Telecommunication Systems, Springer Science Pub.** (2005~2011).
10. Associate Editor, **IEEE Trans. on Vehicular Technology** (2005~2009).
11. Associate Editor, **IEEE Trans. on Mobile Computing** (2006~2011).



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## Curriculum Vitae

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12. Editorial Board, **Int'l Journal of Vehicular Technology** (2006~present).
13. Editorial Board, **Journal of Interconnection Networks** (2007~2009).
14. Associate Editor, **IEEE Trans. on Parallel and Distributed Systems** (2008~2013/01).
15. Editorial Board, **Pervasive and Mobile Computing** (2010~present).
16. Editorial Board, "Paper Series of Sungkyunkwan University", Springer, 2012.
17. Founding Editor, **Journal of Self-Computing**, World Scientific Pub., and as an Editor (2013~present).
18. Associate Editor, **IEEE Internet of Things Journal** (2013/09~present).

### ● Guest Editorship

1. Guest Editor, Special Issue of *Journal of Internet Technology*, "Wireless Internet: Applications and Systems", 2002.
2. Guest Editor, Special Issue of *ACM Wireless Networks*, "Advances in Mobile and Wireless Systems", Vol. 9, No. 2, 2003.
3. Guest Editor, Special Issue of *IEEE Trans. on Computers*, "Wireless Internet", Vol. 52, No. 6, June 2003.
4. Guest Editor, Special Issue of *Wireless Communications and Mobile Computing*, "Research in Ad Hoc Networking, Smart Sensing, and Pervasive Computing", Vol. 3, No. 4, June 2003.
5. Guest Editor, *Telecommunication Systems*, Special Issue on "Wireless Sensor Networks", Vol. 26, Nos. 2-4, 2004.
6. Guest Editor, *Journal of Information Science and Engineering*, Special Issue on "Mobile Computing", May 2004.
7. Guest Editor, *Int'l Journal of Pervasive Computing and Communications*, Special Issue on "Key Technologies and Applications of Wireless Sensor and Body-area Networks".
8. Guest Editor, *Signal Processing*, Special Issue on "Information Processing and Data Management in Wireless Sensor Networks", 2007 (guest editorial, pp. 2859-60).
9. Guest Editor, *Int'l J. of Security and Networks*, Special Issue on "Security, Privacy, and Identification Technologies in Wireless Sensor Networks", Vol. 5, No. 1, 2010.
10. Guest Editor, *Journal of Information Science and Engineering*, Special Issue on "Vehicular Wireless Networks and Vehicular Intelligent Transportation Systems", 2010.
11. Guest Editor, *The Computer Journal*, Special Issue on "Algorithms, Protocols and Future Applications of Wireless Sensor Networks", Editorial in Vol. 53, No. 10, 2010.

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(Guest editors: Y.-C. Wang, T. Ohtsuki, A. Vasilakos, A. Sabharwal, Y.-H. Chen, and Y.-C. Tseng)

12. Guest Editor, *IEEE J. on Selected Areas in Communications*, Special Issue on “Networking Challenges in Cloud Computing Systems and Applications” (guest editors: James Hughes, Sarit Mukherjee, Kshirasagar Naik, Amiya Nayak, Yu-chee Tseng, Li-chun Wang, and David Wei)
13. Guest Editor, *IEEE Trans. on Emerging Topics in Computing*, Special Issue on “Emerging Topics in the Design of High Performance Internet Routers” (guest editors: Sun-Yuan Hsieh and Yu-chee Tseng), expected pub. date: 2015.
14. Guest Editor, *Pervasive and Mobile Computing*, Special Issue on “Secure Ubiquitous Computing” (guest editors: M. R. Ogiela, I. You, F.-Y. Leu, and Y.-C. Tseng).

### 3-6. Conference Activities

#### ● Chair/Co-chair Positions

1. Far-East Publicity Chair, Int'l Parallel Processing Symposium 1998 (IPPS'98), Switzerland.
2. Co-Chair: National Computer Symposium (NCS), 1999, Workshop of Parallel and Distributed Systems.
3. Chair, Workshop on Wireless Networks and Mobile Computing (WNMC), associated with ICDCS-2000.
4. Chair: Mobile Computing Workshop, 2001, Taiwan.
5. Chair, Workshop on Wireless Networks and Mobile Computing (WNMC), associated with ICDCS-2001.
6. Publication Chair: Int'l Conf. on Parallel Processing, 2001, Spain.
7. Vice Program Chair: Int'l Conf. on Parallel and Distributed Systems, 2001, Korea.
8. Chair, Int'l Workshop on Wireless Internet (in conjunction with ICPADS 2001), Korea.
9. General Chair: Mobile Computing Workshop, 2002, Taiwan
10. Chair, Workshop on Wireless Networks and Mobile Computing (WNMC), associated with ICDCS-2002, Austria.
11. Publicity Co-Chair, Int'l Conf. on Parallel Processing (ICPP) 2002, Canada.
12. Vice Program Chair, Int'l Conf. on Parallel and Distributed Systems, Wireless and Mobile Computing Track, 2002, Taiwan.
13. Program Chair, Int'l Workshop on Wireless Security and Privacy (WiSPr), 2003,

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- Taiwan (in conjunction with ICPP 2003).
14. Vice Chair, Int'l Conf. on Distributed Computing Systems (ICDCS), 2004, Japan.
  15. Vice Chair, IEEE Int'l Conf. on Mobile Ad-hoc and Sensor Systems (MASS), 2004, Florida, USA.
  16. General Chair: Mobile Computing Workshop, 2005, Taiwan.
  17. Program Chair: National Computer Symposium (NCS), 2005, Symposium on Mobile Computing.
  18. Steering Committee Member, Int'l Workshop on RFID and Ubiquitous Sensor Networks (USN), 2005, Japan.
  19. Demo/Exhibition Chair, Int'l Conf. on Information Technology: Research and Education (ITRE), 2005.
  20. Program Chair: Distributed Wireless Sensor Networks Workshop, Chung-Yuan University, Taiwan, 2006.7.6-7.
  21. Vice Chair, IEEE Int'l Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing, 2006, Taiwan.
  22. Co-Chair, Int'l Computer Symp. (Workshop on Computer Networks and Wireless Communications), 2006, Taipei.
  23. General Co-Chair, IEEE Asia Pacific Wireless Communications Symp. (APWCS), 2006, Korea.
  24. Organizing the "Rice-Xilinx WARP Workshop at NCTU", 2006/12/19-20, National Chiao Tung University, Taiwan.
  25. Int'l Liaison Co-Chair, Int'l Conf. on Parallel Processing, 2007, Xi'An, China.
  26. Vice Chair, IFIP Int'l Conf. on Embedded and Ubiquitous Computing (EUC), 2007, Taipei.
  27. General Chair, IEEE Asia Pacific Wireless Communications Symp. (APWCS), 2007, Taiwan.
  28. Co-Chair, IEEE Int'l Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing, 2008, Taiwan.
  29. General Chair, The 10th Int'l Conf. on Mobile Data Management (MDM), 2009, Taipei.
  30. Vice General Chair, IEEE VTC-Spring, 2010, Taipei.
  31. Program Co-Chair, Int'l Conf. on Parallel Processing, 2011, Taipei.
  32. Area TPC Chair, INFOCOM, 2011, Shanghai, China.
  33. Award Co-Chair, Int'l Conf. on Parallel Processing (ICPP), 2012, Pittsburgh.
  34. Vice Chair, Int'l Conf. on Distributed Computing Systems (ICDCS), 2013, Philadelphia, USA. (track: Wireless, Mobile, Sensors, and Ubiquitous Computing)

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## Curriculum Vitae

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35. General Co-Chair, Int'l Conf. on Parallel Processing (ICPP), 2013, Leon, France.
36. General Chair, Asia-Pacific Network Operations and Management Symp. (APNOMS), 2014, Hsin-Chu, Taiwan.
37. TPC Co-chair, IEEE iThings, 2014, Taipei.

### ● Committee Members

1. Program Committee Member: International Conference on Parallel and Distributed Systems, 1996 (ICPADS'96), Japan.
2. Session Chair of High Performance Networks: High Performance Computing-Asia Conf. 1997 (HPC-Asia'97), Korea.
3. Publicity Coordinator: Int'l High-Performance Computing Conference 1997 (HiPC'97).
4. Session Chair for Routing: Int'l Conf. on Parallel Processing 1998
5. Program Committee Member: Int'l Conf. on Parallel Processing, 1998 (ICPP'98), USA
6. Program Committee Member: Int'l Workshop on Group Communication, in association with Int'l Conf. of Parallel Processing 1999.
7. Program Committee Member: Int'l Symp. on Computers, Workshop on Computer Architecture, 2000, Taiwan.
8. Program Committee Member: Int'l Symp. on Parallel Architectures, Algorithms and Networks (ISPAN), 2000, USA.
9. Program Committee Member: Int'l Conf. on Parallel Processing (ICPP), 2000, Canada.
10. Program Committee Member: Int'l Conf. on Computer Comm. and Networks (ICCCN), 2000, USA.
11. Program Committee Member: Distributed Objects and Applications (DOA), 2000, Belgium.
12. Program Committee Member: Asian Int'l Mobile Computing Conference (AMoC), 2000, Malaysia.
13. Program Committee Member: Int'l Conf. on Information Networks (ICOIN-14), 2000, Taiwan.
14. Program Committee Member: Int'l Conf. on Distributed Computing Systems (ICDCS), 2000.
15. Program Committee Member: Computer Networks and Mobile Computing Workshop, Nat'l Computer Symp., 2001, Taiwan.
16. Program Committee Member: Int'l Workshop on Internet Computing and E-Commerce (ICEC'02), Florida.

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## Curriculum Vitae

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17. Program Committee Member: Workshop on the 21st Century Digital Life and Internet Technologies, 2001, NCKU, Taiwan.
18. Program Committee Member: Int'l Conf. on Computer Comm. and Networks (ICCCN), 2001, Arizona, USA.
19. Program Committee Member: The First Pacific Asia Human.Society@Internet Conference, 2001, Korea.
20. Program Committee Member: Asian Int'l Mobile Computing Conference (AMoC), 2001.
21. Program Committee Member: Int'l Conf. on Parallel and Distributed Comp., Appl., and Tech. (PDCAT 2001), Taiwan.
22. Program Committee Member: Int'l Workshop on Internet Computing and E-Commerce, associated with IPDPS 2001, California, USA.
23. Program Committee: IEEE Pacific Rim Conf. on Multimedia, 2002 (NTHU, Taiwan).
24. Program Committee: Int'l Computer Symp. (Information Security Workshop), 2002, Taiwan.
25. Program Committee: ACM MobiCom, Workshop on Wireless Sensor Networks and Applications, 2002, USA.
26. Program Committee: Int'l Conf. on Computer Comm. and Networks (ICCCN), 2002, Florida, USA.
27. Program Committee: IASTED Int'l Conf. on Networks, Parallel and Distributed Processing and Applications (NPDPA), 2002, Japan.
28. Program Committee: Symposium on Digital Life and Internet Technologies, 2002, Nat'l Cheng-Kung Univ.
29. Program Committee: IEEE International High Performance Computing Conference (HiPC), 2002.
30. Program Committee: Int'l Workshop on Wireless Sensor Networks and Applications, 2003, USA (in conjunction with ACM MobiCom).
31. Program Committee: Symposium on Digital Life and Internet Technologies, 2003, NCKU, Taiwan.
32. Program Committee: Int'l Conf. on Computer Comm. and Networks (ICCCN), 2003, Dallas, USA.
33. Program Committee: Int'l Workshop on Information Processing in Sensor Networks, 2003, California, USA.
34. Program Committee: Workshop on Internet Computing and E-Commerce, 2003, France.

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## Curriculum Vitae

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35. Organizer, Workshop on "Wireless Ad Hoc and Sensor Networks: From IEEE 802.11 to Motes", NTHU, March 2003.
36. Program Committee: Workshop on Mobile and Wireless Networks, 2003 (in conjunction with ICDCS 2003), USA.
37. Program Committee: WWW 2003 Conference, Hungary.
38. Technical Program Committee: IEEE INFOCOM, 2003.
39. Program Committee: IEEE Int'l Conf. on Communications (ICC), 2003, Alaska, USA (Symp. on Personal Comm. Services and Wireless LANs).
40. Program Committee: IEEE Int'l Conf. on Sensor and Ad hoc Communications and Networks (SECON), 2004, USA.
41. Program Committee: Int'l Workshop on Distributed Computing (IWDC), 2004, India.
42. Program Committee: Broadband Wireless Networking Symp. (BroadNet), 2004, San Jose, USA.
43. Program Committee: ACM MobiCom Conference, 2004.
44. Program Committee: ACM MobiHoc Conference, 2004.
45. Program Committee: International High Performance Computing Conference (HiPC), 2004, India.
46. Program Committee: Mobile Computing Workshop, 2004, Taiwan.
47. Program Committee: Int'l Computer Engineering Conf. (ICENCO), 2004, Cairo, Egypt.
48. Program Committee: Int'l Symp. on Information Processing in Sensor Networks (IPSN), 2004, Berkeley, California, USA.
49. [2005] TPC membership: ACM Int'l Workshop on Wireless Multimedia Networking and Performance Modeling (WMuNeP'05), TANET, Int'l Symp. on Network-Centric Ubiquitous Systems (Japan), Int'l Symp. on Ubiquitous Intelligence and Smart Worlds (Japan), Int'l Conf. on Computer Comm. and Networks (ICCCN, USA), IEEE Int'l Conf. on Mobile Ad-hoc and Sensor Systems (MASS, USA), Int'l Conf. on Mobile Ad-hoc and Sensor Networks (China), IEEE WirelessCom (Hawaii, USA), ACM/IFIP/USENIX Middleware Conference (Grenoble, France), Int'l Conf. on E-business and Telecommunication Networks (ICETE, Reading, UK), Broadband Wireless Networking Symp. (BroadNets, Boston), Int'l Workshop Strategies for Energy Efficiency in Ad Hoc and Sensor Networks (in conjunction with IPCCC, USA), IEEE Wireless Communications and Networking Conf. (New Orleans, USA), Int'l Workshop on Cellular Networks and their Applications (CNNA, Taiwan), Int'l Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS, Hawaii, USA), Int'l Conf. on Wireless and Mobile Computing, Networking and Communications (WiMob,

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## Curriculum Vitae

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- Montreal, Canada), Wireless Internet Conf. (WICON, Budapest, Hungary).
50. [2006] TPC Membership: International Conference On Late Advances in Networks (Paris); IEEE Int'l Workshop on Heterogeneous Multi-Hop Wireless and Mobile Networks (Canada); Int'l Conf. on Mobile Ad-hoc and Sensor Networks (Hong Kong); ACM Workshop on Wireless Multimedia Networking and Performance Modeling (Spain); Int'l Conf. on Sensor Networks and Applications; Int'l Symp. on Pervasive Computing and Applications (Xinjiang, China); Int'l Conf. on Wireless Algorithms, Systems, and Applications (WASA, Xian, China); IFIP Int'l Symp. on Network Centric Ubiquitous Systems (Korea); Conf. on Sensor, Mesh and Ad Hoc Communications and Networks (SECON, Virginia, USA); IWCMC; Int'l Conf. on Communications and Networking in China (CHINACOM); Int'l Conf. on Ubiquitous Intelligence and Computing (UIC, Wuhan, China); Int'l Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS, Pisa, Italy).
  51. [2007] TPC Membership: IEEE Int'l Conf. on Distributed Computing in Sensor Systems (DCOSS, New Mexico); Int'l Conf. on Parallel Processing (XiAn, China); Int'l Conf. on Mobile Ad-hoc and Sensor Systems (MASS, Pisa, Italy); IEEE PerSeNS (New York); Int'l Conf. on Distributed Computing Systems (ICDCS, Toronto, Canada); AINA (Ontario, Canada). Advisory Committee Member: SENSORCOMM (Spain).
  52. [2008] TPC Membership: ACM WMuNeP (Canada), IEEE VTC 2008-Spring (Singapore), INFOCOM.
  53. [2009] TPC Membership: INFOSCALE (Hong Kong), Symp. on Stabilization, Safety, and Security of Distributed Systems (SSS, France), SENSORCOMM (Greece), INFOCOM.
  54. [2010] TPC Membership: INFOCOM, 2010.
  55. [2011] TPC Membership: IEEE MASS, IEEE PIMRC, Mobile Ad-hoc and Sensor Networks (MSN, Beijing).
  56. [2012] TPC Membership: INFOCOM, MSWiM, MASS, ICPP-posters.
  57. Steering Committee: Workshop on Ad Hoc and Sensor Networks, 2012, New Taipei City, Taiwan.
  58. [2013] TPC Membership: INFOCOM, MSWiM, MSN, WESA (Energy-smart Services and Applications).
  59. [2014] TPC Membership: INFOCOM, ICDCS.
  60. [2015] TPC Membership: INFOCOM.

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## Curriculum Vitae

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### 3-7. Invited Talks

1. Lecturer, Winter School for Information Communication Networks, 2002, Nat'l Tsing-Hua University.
2. Lecturer, Workshop on Location-aware Computing and Ad Hoc Networking, Nat'l Tsing-Hua Univ., 2002.
3. Invited Talk, Florida Atlantic University, 2002.
4. Invited Talk, "Workshop on Location-aware Computing and Ad Hoc Networking", NTHU, May 2002.
5. Invited Talk, COTEC 2002.
6. Distinguished Guest Lecturer, Computer and Info. Science Dept., Ohio State Univ., 2002.
7. Florida Atlantic Univ., "Impact of Location Awareness in Ad Hoc and Sensor Networks", 2002
8. 通訊科技教育改進計畫短期課程: "Applications and Techniques of Wireless Sensor and Ad Hoc Networks" (2004.09).
9. 通訊科技教育改進計畫東華大學校際講座: Next-Generation Network Services: Sense and Ad Hoc Communication Technologies (2004.06)
10. Massachusetts Institute of Technology, "2D and 3D Coverage Problems in Wireless Sensor Networks", 2004/06/04.
11. 通訊科技教育改進計畫成功大學校際講座: Wireless Sensor and Ad Hoc Networks: Applications, Services, and Technologies (2004.05)
12. Keynote Speech, Workshop on Wireless Sensor Networks, 11/25/2005, National Yunlin University of Science and Technology, Taiwan.
13. Tutorials: (1) Communication Protocols for Wireless Ad Hoc/Sensor Networks and (2) Efficient Placement and Dispatch of Sensors in a Wireless Network, in Workshop on Wireless, Ad Hoc, and Sensor Networks, NCU, 2005.08.
14. 「無線隨意及感測網路技術與應用」種子教師培訓研討會, 交通大學, 2005.7-25-26.
15. Keynote Speech: "Wireless Sensor Network Research in Taiwan", IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS), 08/24/2006, Daejeon, Korea.
16. Panel Discussion: "Sensor Networks: Is it for real or just for research?", in IEEE Int'l Conf. on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC), 2006. (2006-06-sutc-panel.ppt)
17. Invited Talk: "如何做研究", 大學教師學術生涯規劃研習營, NCTU, 2007/12.
18. Keynote Speech: "Wireless Sensor Network Techniques and Applications", Information



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## Curriculum Vitae

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- Education and Technological Applications Conference (IETAC), 2007/11.
19. Keynote Speech: "Location Sensing Techniques and Applications", Workshop on Wireless Ad Hoc and Sensor Network (WASN), 2007/09, Tamkang University.
  20. Distinguished Guest Lecture, "Wireless Sensor Networks: Applications, Protocols, and Deployment", Ohio State University, 2008/5/22.
  21. Keynote Speech: "From Sensor Networks to Cyber-Physical Systems", Mobile Computing Workshop, 2010/05 (從感測網路談網際實境系統, 台中教育大學).
  22. Industry Talk: "Future Opportunities of Wireless Networks", Inventec Inc., 2010/07.
  23. Invited Talk: "From Wireless Sensor Networks to Cyber-Physical Systems", University of North Texas, Department of Computer Science and Engineering, 2010/09/10.
  24. Keynote Speech: "From Sensor Networks to Sensor-enabled Cloud Services", TANET, 2010/10 (National Tainan University).
  25. Invited Seminar Talk: "From Sensor Networks to Cloud-enabled Services", University of Delaware, 2010/11/11.
  26. Panelist, Computer Science Research Day, Univ. of Delaware, 2010/11/12.
  27. Invited Talk: "從研究工作到計畫提案", 中華大學, 2010/11/29.
  28. Industry Talk: "Wireless Sensor Networks", D-Link, 2010/12/8.
  29. Invited Talk: "Body Sensing", Kinect SDK for Windows Workshop, Taipei, 2011/12/07.
  30. Keynote Speech: "Body Sensing and 3C", Int'l Symp. On Computer, Consumer and Control, Taichung, Taiwan, 2012/6/5.
  31. Panelist: "M2M/D2D toward Beyond 4G Wireless", IEEE SECON, 2012, Seoul, Korea. (2012/06/20)
  32. Invited Talk: Workshop on Hot Topics in Wireless Networking, "Wireless technologies for body sensor networks", Seoul National University, Korea. (2012/06/22)
  33. Invited Talk: US-China Workshop on Environment Monitoring for Public Health and Disaster Recovery, "Body Sensing and Some Data Compression Techniques". (2012/08/08, Yellow Mountains, China)
  34. Invited Talk: IEEE Circuits and Systems Society Forum on Emerging and Selected Topics (CAS-FEST), in conjunction with IEEE ISCAS 2013, "Can Telecomm Networks Support IoT?", Beijing, China, 2013/05/19.
  35. Tutorial: Asia-Pacific Network Operations and Management Symp. (APNOMS), 2013, "Self-Localization", Hiroshima, Japan. (2013/9/25)
  36. Invited Talk: "Smarter IoT and Wearable Devices", Open API 創新平台與智慧 IOT 雲端服務產學研論壇, 2014/09.
  37. Invited Talk: "WIT CLUB's Views on 5G Initiatives", Int'l Workshop on 5G ICT

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## Curriculum Vitae

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Technologies, 2014/11, Beijing.

38. Keynote Speech: "Smarter IoT: Serving by Situating", IEEE Int'l Conf. on Service Oriented Computing and Application (SOCA), 2014, Matsue, Japan. (2014/11/17)
39. Keynote Speech: "Smarter IoT and Situated Computing", Int'l Conf. on Frontiers of Internet of Things (FIT), 2014, HsinChu, Taiwan. (2014/12)
40. Keynote Speech: "Smarter IoT: A Situated Computing Prospective", Int'l Conf. on Advances in Mobile Computing and Multimedia (MoMM), 2014, Kaohsiung, Taiwan. (2014/12)
41. Keynote Speech: "IoT and Situated Computing", IEEE Symp. on Autonomous Decentralized System (ISADS), 2015.03, Taichung, Taiwan.

### 3-8. Other Services

1. 中央研究院, 審議委員 (2002).
2. NSF Panelist, USA, 2002.
3. 國科會計畫複審委員 (多次)
4. 教育部委員會顧問 (2005.7-2006.6)
5. 經濟部 SBIR 委員 (多年)
6. IEEE Fellow Evaluation Committee for Computer Society, 2012.

### 3-9. Research Grants

1. 網通國家型計畫: "以安全, 節能及遊憩為目的之車載網路系統—總計畫: 以安全、節能及遊憩為目的之車載網路系統", 2009.08~2012.07.
2. 經濟部學研聯合研究計畫: 『V-Tour: 運用車載資通訊技術於旅遊導覽服務計畫』, 2009.06~2010.05.
3. National Science Council: "Initialization and Communication Problems in ZigBee Wireless Sensor Networks", 2008.08~2011.07, (國科會"傑出學者研究計畫": "ZigBee 無線樹狀感測網路之初始化及通訊問題研究").
4. National Science Council: "Eco-City", 2008.02~2011.01, (國科會: "Eco-City: 健康樂活城"智慧行動生活科技區域整合中心, 擔任共同主持人, 主持人為林進燈教授)
5. Microsoft: "Geo-Fingerprint Service: A Collaborative Feature Collection Service for WiFi Positioning", 2008.
6. Microsoft: "Mobile GeoWeb Services: MyFriend, MyGuide and MyMusic", 2007.

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## Curriculum Vitae

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7. National Science Council: "ECO-House: Smart Building with Wireless Sensor Network and Tiny-Weather Monitor Controlling", 2006.11~2009.10. (國科會計畫: "ECO-House: 具無線感測網路及微氣候監測控制之智慧型建築").
8. National Science Council: "Wireless Mobile Sensor Network Technologies for Agricultural Applications", 2006.08~2009.07. (國科會計畫: "總計畫: 適用於農業之無線行動感測網路技術之研究").
9. 工研院/學研計畫: "Communication Protocols for Wireless Access Networks". (2005.01~2005.12).
10. Intel Inc.: "Broadband Wireless Mesh and WiMAX Networks" (2005.07~2006.06).
11. 電信國家型計畫: (2005.8~2008.7) 總計畫: 多天線多通道多模多速率無線網狀網路之設計與實作
12. 經濟部學界開發計畫: "智慧型感測器系統、網路及應用技術 (Intelligent Sensor Systems, Networks, and Applications)", 2005.06-2008.05.
13. 後卓越計畫(Program for Promoting Academic Excellence of Universities II), NSC: "Advanced Technologies and Applications for Next Generation Information Networks" 下一世代資訊通訊網路尖端技術與應用(2004.04~2008.03).
14. 電信國家型計畫: (2002.8~2005.7) 總計畫, Co-PI"多階層行動隨意網路之設計及實作(Design and Implementation of Multi-tier Mobile Ad Hoc Networks).
15. 教育部: 大學追求卓越計畫(Program for Promoting Academic Excellence of Universities), Ministry of Education: "Advanced Technologies and Applications for Next Generation Information Communication Networks" (2002.04-2004.03).
16. 教育部: 大學追求卓越計畫 --- 學習科技 --- 分項計畫(一): 行動導覽式學習 (2000.01~2004.03)

### 3-10. Technology Transfers

1. 智勝國際公司, "行動教室無線隨意網路繞徑系統", 2005.
2. 源鼎科技, "無線定位系統", 2007.
3. 全波科技, "應用無線寬頻通信機實作無線隨意網路", 2008.04.
4. 工研院技轉: "無線繞徑協定", 2007; "Hybrid Global Position System 技術研發", 2008; "具捷徑傳輸能力之 ZigBee 協定模組示範安裝", 2008; "Zigbee 自動光度感測及系統", 2009.

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## Curriculum Vitae

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### 4. Former Students

- **PHDs Advised: (24 doctors)**

1. Dr. 王三元 (義守大學資工系)
2. Dr. 倪嗣堯
3. Dr. 吳世琳 (長庚大學)
4. Dr. 楊明豪 (中原大學)
5. Dr. 廖文華 (大同大學)
6. Dr. 林亭佑, 2002.12 (交通大學/電信系)
7. Dr. 趙志民, 2003.12 (海洋大學)
8. Dr. 許智舜, 2004.06 (世新大學)
9. Dr. 林國珍, 2004.06 (中華大學)
10. Dr. 黃啟富, 2004.09 (交通大學/post doctor)
11. Dr. 葉向榮, 2005.10 (ITRI)
12. Dr. 王友群, 2006.10 (交通大學/post doctor, 中山大學)
13. Dr. Chih-Yu Lin (林致宇/亞洲大學), 2007.08
14. Dr. M.-S. Pan (潘孟鉉/凌陽電通), 2008.04
15. Dr. S.-P. Kuo (郭聖博/Telcordia Taiwan), 2008.09
16. Dr. L-W. Chen (陳烈武/逢甲大學), 2008.12
17. Dr. W.-K. Chu (朱緯國), 2009.01
18. Dr. J.-J. Chen (陳建志/台南大學), 2009.10
19. Dr. L.-W. Ye (葉倫武), 2010.10
20. Dr. J.-M. Liang (梁家銘), 2011.05.
21. Dr. F.-J. Wu (巫芳璟/Singapore), 2011.05.
22. Dr. W.-H. Yang (楊文新/工研院), 2011.08.
23. Dr. C.-H. Wu (吳鈞豪), 2012.05.
24. Dr. C.-H. Tsai (蔡佳宏), 2012.05.

- **Masters Advised: (131 students as of 2014.01)**

1. 2014.07: 陳驥, 簡英哲.
2. 2014.01: 黃思頻, 張家甄, 林宛萱.
3. 2013.07: 吳建澄, 張逸廷, 謝博鈞, 陳羿丞, 蕭詠彰, 蔡水旺
4. 2013.01: 鄭弘欣, 呂理聖

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## Curriculum Vitae

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5. 2012.07: 鍾佳妤, 林家榆, 林仲毅, 林育伶, 鄭任翔.
6. 2011.06: 林宗慶, 黃虹穎, 彭昱豪, 莊承益, 廖家良, 林暉桓, 朱峰儀, 張元澤, 邱正平, Pranay Sharma (普若內).
7. 2011.02: 劉正文
8. 2010.09: 吳宗衡, 黃辰少.
9. 2010.08: 劉瑞祥.
10. 2010.06: 高志偉, 黃俊翔, 許藍尹, 許修齊, 陳勇甫, 薛坤澤.
11. 2010.01: 徐敏修, 吳和程.
12. 2009.06: 朱瑞浩, 呂哲彥, 林育萱, 莊哲熙, 張哲賓, 王湘博, 葉侯亨, 陳依廷, 盧奕呈, 黃淦涓.
13. 2009.01: 陳志誠.
14. 2008.10: 周裕庭.
15. 2008.06: 徐子文, 陳春華, 林仕晉, 王文杰, 呂書賢, 楊雁智, 李亭瑩, 賴婉婷, 賴怡廷.
16. 2007: 謝耀宇, 陳彥安, 吳秉禎, 程幼棟.
17. 2006: 李凌, 蔡佳宏, 陳威碩, 洪亦霆, 談偉航, 陳淑敏, 郭曉儒, 周志明.
18. 2005: 江宗嶽, 羅立竹, 胡君琪, 吳佩曄, 吳曉璐, 鄭凱陽, 蔡岳洋, 林巨益, 詹孝順, 戴郁芬, 黃柄榮.
19. 2004.09: 蔡馥全, 歐畊甫, 楊志民.
20. 2004.06: 劉衍谷, 阮騰輝, 李日新, 孫正忠, 巫芳璟, 林耿仲, 林柄榕, 陳炤萍.
21. 2003.06: 王友群, 郭聖博, 李弘威, 張允暢
22. 2002.06: 沈家慶, 謝天元, 曾柏豪, 張延寧, 張耿銘, 呂元廷, 李岳峰
23. 2001.06: 黃啟富, 郭博弦, 闕堉棋, 洪偉能, 羅國倫, 謝金樺
24. 2000.06: 張致和, 陳烈武, 張朝欽, 史恩宇, 簡銘宣, 陳裕元, 潘祥光, 林致宇, 楊世奇, 徐振堃
25. 1999.06: 譚正中, 謝智明, 謝啟銘, 陳熙君, 陳宗斌, 徐慶松
26. 1998.06: 陳國緯, 林泰谷, 賴靜瑛, 張秋菊, 鄭國寶