

## 基本資料



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## 專長

	專長
1	網路管理/Network Management
2	分散式系統/Distributed System
3	資料庫系統/Database System

## 學歷

	畢業學校	主修學門系所	學位
1	美國伊利諾大學芝加哥分校	電機電腦	博士
2	國立交通大學	計算機工程	碩士
3	國立交通大學	控制工程系	學士

## 逢甲大學經歷

	服務系所	職稱
1	資訊工程學系	教授
2	資訊工程學系(所)	教授
3	國際事務處	國際事務長
4	圖書館	館長
5	資訊處	資訊長
6	校長室	校長
7	校長室	副校長
8	領導知能發展中心	主任
9	資訊中心	主任
10	工學院	院長
11	資訊工程學系(所)	所長
12	資訊工程學系(所)	系主任

## 校外經歷

	服務單位	服務單位	職稱	時間(起)	時間(迄)
1	教育部		研究員兼領域召集人	2008-08	2009-07

2	法鼓大學	籌備處	主任	2008-08	2011-07
3	美國伊利諾大學	工學院	助理教授	1983-06	1989-06
4	美國 Gemini Computers		系統工程師	1982-06	1983-06
5	美國達克達大學助理教授		助理教授	1981-01	1982-06

## 發表期刊論文

### 發表期刊論文

1	劉安之, "建設人間淨土：法鼓大學的願景," 香港中文大學通識學報, 第六期, PP. 135~149, 2010-06.
2	Chen-Hsiang Yu, Don-Lin Yang and An-Chi Liu, "A Study of WiMAX Implementation at University Campuses," <i>Int. Journal of Future Generation Communication &amp; Networking</i> , Vol. 1, No. 2, PP. 1~8, 2009-03.
3	C. S. Chao and A. C. Liu, "A Distributed Management Framework for Enterprise VoIP Networks," <i>Journal of Internet Technology</i> , 7/3, PP. 275~284, 2006-07. (EI)
4	C. S. Chao and A. C. Liu, "Abnormal Event Detection for Network Flooding Attacks," <i>Journal of Information Science and Engineering</i> , 20/6, PP. 1079~1091, 2004-11. (SCI)
5	C. S. Chao and A. C. Liu, "An Alarm Management Framework for Automated Network Fault Identification," <i>Computer Communications</i> , 27/13, PP. 1341~1353, 2004-08. (SCI,EI)
6	S. C. Ke, C. S. Chao, and A. C. Liu, "網路電話管理系統的規劃與建置," <i>網路通訊雜誌</i> , 139, PP. 56~64, 2003-02.
7	C. S. Chao, D. L. Yang, and A. C. Liu, "A LAN Fault Diagnosis System," <i>Computer Communications</i> , Vol. 24, No. 14, PP. 1439~1451, 2001-09. (SCI,EI)
8	C. S. Chao, D. L. Yang, and A. C. Liu, "An Automated Fault Diagnosis System

	Using Hierarchical Reasoning and Alarm Correlation," <i>The Journal of Network and Systems Management</i> , Vol. 9, No. 2, PP. 183~202 , 2001-06. (SCI,EI)
9	C. S. Chao, A. C. Liu, "A Visualization Modeling Framework for a CSP-Based System," <i>Journal of Visual Languages and Computing</i> , Vol. 11/No. 1, PP. 83~103 , 2000-02. (SCI,EI)
10	劉安之 , Chang, Y.-H., "DESIGN AND MODEL OF A RATE-BASED FLOW CONTROL SCHEME," <i>Journal of Information Science and Engineering</i> , Vol. 13/No. 3, PP. 489~516 , 1997-08. (EI)
11	D.M. Liou and A.C. Liu, "A Model for Dynamic Channel Allocation in an ISDN," <i>Proceedings of the IEEE</i> , Vol. 79, No. 2, PP. 205~213 , 1991-02.
12	A.C. Liu and R. Parthasarathi, "Hardware Monitoring of a Multiprocessor System," <i>IEEE Micro</i> , PP. 44~51 , 1989-10.
13	B. Bodnar and A.C. Liu, "Modeling and Performance Analysis of Single Bus Tightly Coupled Multiprocessors," <i>IEEE Transactions on Computers</i> , Vol. 38, No. 3, PP. 464~470 , 1989-03.
14	A.C. Liu and H.M. Harb, "Processor Allocation in a Distributed System", <i>Journal on Policy and Information</i> ," <i>Journal on Policy and Information</i> , Vol. 12, No. 2, PP. 59~75 , 1988-12.
15	A.C. Liu and K.S. Wong, "Automatic Generation of Process Flow Diagrams," <i>Journal of Computers and Graphics</i> , Nos. 3/4, Vol. 12, PP. 525~539 , 1988-08.
16	M. Witten, B. Bodnar, and A.C. Liu, "Simulation and Modeling of a Single Bus Tightly Coupled Multiprocessor System," <i>Mathematics and Computers in Simulation</i> , No. 29, PP. 19~31 , 1987-08.
17	A.C. Liu and D.A. Olson, "Database Alerters and Triggers in an Automated Library Circulation System," <i>Management and Office Information System</i> , Plenum Press, PP. 309~321 , 1984-08.
18	S.K. Chang and A.C. Liu, "File Allocation in a Distributed Database," <i>International Journal of Computer and Information Sciences</i> , Vol. 11, No. 5, PP. 325~340 , 1982-10.

會議論文

1	邱清鴻，劉安之, "政策性宿舍網路管理系統," <i>TaNet 2009</i> , 6 , 2009-10. 台灣彰化師範大學.
2	Chen-Hsiang Yu, Don-Lin Yang and An-Chi Liu, " <a href="#">A Study of WiMAX Implementation at University Campuses</a> ," <i>The 2nd International Conference on Future Generation Communication and Networking</i> , 493-496 , 2008-12. Sanya, Hainan Island, China.
3	C. S. Chao and A. C. Liu, " <a href="#">An Internet Firewall Policy Verification System</a> ," <i>2006 IEICE/KNOM Asia-Pacific Network Operations and Management Symposium (APNOMS2006)</i> , Poster Session No. 4 , 2006-09. Busan, Korea.
4	C. S. Chao and A. C. Liu, " <a href="#">Management and Construction Issues for Enterprise-Wide IP Telephony</a> ," <i>the 2005 IEICE/KNOM Asia-Pacific Network Operations and Management Symposium (APNOMS2005)</i> , vol. 1, pp. 650-651 , 2005-09. Okinawa, Japan.
5	C. S. Chao, Y. S. Chen, and A. C. Liu, " <a href="#">Statistical Detection for Network Flooding Attacks</a> ," <i>Proceedings of the 2003 National Computer Symposium</i> , pp. 1264-1273 , 2003-12. Taichung, Taiwan.
6	M. H. Liu, C. S. Chao, and A. C. Liu, " <a href="#">逢甲大學 VoIP 網路之頻寬規劃與管理</a> ," <i>TANet2003</i> , pp. 63-69 , 2003-10. Taiwan.
7	S. C. Ke, C. S. Chao, and A. C. Liu, " <a href="#">網路電話之效能監測與路徑選擇</a> ," <i>TANet2003</i> , pp. 167-172 , 2003-10. Taiwan.
8	C. S. Chao, C. C. Huang, and A. C. Liu, " <a href="#">A Distributed Management Framework for VoIP Networks</a> ," <i>Proceedings of the 2003 IEICE/IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS2003)</i> , pp. 189-199 , 2003-10. Japan.

9	C. C. Huang, C. S. Chao, and A. C. Liu, " <a href="#">A Distributed Management Framework for H.323-Based VoIP System</a> ," <i>Proceedings of the 2003 International Conference on Communications in Computing</i> , Vol. II, pp. 268-276 , 2003-06. Las Vegas, Nevada, USA.
10	S. C. Ke, C. S. Chao, and A. C. Liu, " <a href="#">FCU VoIP Network Management -- A Case Study</a> ," <i>TANET 2002</i> , Session IV, No. 1 , 2002-10. Taiwan.
11	C.S. Chao 、 J.C. Chang 、 A.C. Liu, " <a href="#">Network Information on Users' Perspectives</a> ," <i>Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Ap</i> , NO.H3,1718~1724 , 2002-06. Las Vegas, USA.
12	C. S. Chao, D. L. Yang and A. C. Liu, " <a href="#">A Time-Aware Fault Diagnosis System in LAN</a> ," <i>Proceedings of the 2001 IFIP/IEEE International Symposium on Integrated Network Management(IM2001)</i> , 499-512 , 2001-05. Seattle, USA.
13	C. S. Chao, D. L. Yang and A. C. Liu, " <a href="#">An Autonomous and Automated Network Fault Identification for Distributed Software Systems</a> ," <i>Proceedings of the 4th World Multiconference on Systemics, Cybernetics and Informatics</i> , 242-248 , 2000-07. Orlando, Florida, USA.
14	Shen-Feng Lin, Don-Lin Yang, A.C. Liu, " <a href="#">A Dynamic Visual Interface for Network Fault Management</a> ," <i>14th International Conference on Information Networking</i> , 1C2.1-1C2.8 , 2000-01. Hsinchu, Taiwan.
15	E. T. Liang, D.L. Yang and A.C. Liu, " <a href="#">TCP/IP Alarm Transformation in a Network Management Environment</a> ," <i>14th International Conference on Information Networking</i> , 2C2.1-2C2.7 , 2000-01. Hsinchu, Taiwan.
16	C.S. Chao, D.L. Yang, A.C. Liu, " <a href="#">An Automated Fault Diagnosis System Using Hierarchical Reasoning and Alarm Correlation</a> ," <i>Proceedings of 1999 IEEE Workshop on Internet Applications</i> , 1999-07. San Jose, USA.
17	C.H. Yu, D.L. Yang, and A.C. Liu, " <a href="#">Experimental Analysis of Causality Relations Between Network Alarms and Faults</a> ," <i>Proceedings of 1999 Workshop on Distributed System Technologies &amp; Applications</i> , 1-14 , 1999-05. Tainan, Taiwan.
18	J.Z. Lu, C.S. Chao, D.L. Yang, and A.C. Liu, " <a href="#">A Segment-Based TCP/IP Alarm Correlation Engine</a> ," <i>Proceedings of 1999 Workshop on Distributed System</i>

	<i>Technologies &amp; Applications</i> , 554-563 , 1999-05. Tainan, Taiwan.
19	o J. Y. Chen, D. L. Yang, and A. C. Liu, " <a href="#">A MODEL-based Object-Oriented Topology Specification for Network Management</a> ," <i>Proceedings of International Computer Symposium on Computer Network, Internet, and Multimedia</i> , 164-170 , 1998-12. Taiwan.
20	J.Y. Chen, D.L. Yang, A.C. Liu, " <a href="#">A Model-based Object-Oriented Topology Specification for Network Management,</a> " <i>Proceedings of 1998 International Computer Symposium</i> , 164-170 , 1998-12. Tainan, Taiwan.
21	C. S. Chao, D. L. Yang, and A. C. Liu, " <a href="#">Distributed Software System Fault Management in a Heterogeneous Environment</a> ," <i>Proceedings of 1998 Workshop on Distributed System Technologies &amp; Applications</i> , 267-274 , 1998-05. Taiwan.
22	M. L. Hsiao, S. F. Lin, and A. C. Liu, " <a href="#">Distributed System Management in a Heterogeneous Environment</a> ," <i>1997 National Computer Symposium</i> , 145-150 , 1997-12. Taiwan.
23	C. S. Chao and A. C. Liu, " <a href="#">A CSP-based Visual Distributed Programming Environment</a> ," <i>Visual '97</i> , 225-232 , 1997-12. San Diego USA.
24	C. S. Chao and A. C. Liu, " <a href="#">A Three-Dimensional Visualization Information Framework for a Distributed Programming Environment</a> ," <i>Proceedings of the 4th International Conference on Information Systems, Analysis and Synthesis</i> , 399-406 , 1997-08. Orlando USA.
25	趙啟時、王天助、劉安之, " <a href="#">Applying Distributed Breakpoints to a Replay-based Debugger</a> ," <i>1997 分散式系統技術及應用研討會</i> , 538-547 , 1997-05. 台南，台灣.
26	陳振庸、劉安之, " <a href="#">校園網路管理與網管系統的運用</a> ," <i>台灣區網際網路研討會</i> , <i>TaNet1996</i> , 1996-10. 新竹，台灣.
27	A.C. Liu and S.U. Cheng, " <a href="#">A System for Distributed Software Development and Management</a> ," <i>International Conference on Circuits and Systems Science</i> , 1996-06. Shanghai.
28	趙啟時、劉安之, " <a href="#">A CSP-based Visual Distributed Programming</a>



	<a href="#">Environment,"</a> 1996 分散式系統技術及應用研討會, 1996-05. 台南, 台灣.
29	劉安之、孫家麟、黃溪春, <a href="#">"智慧型迷思概念診斷系統之設計與製作,"</a> ICCAI'95 , 1995-03. 新竹, 台灣.
30	H.C. Cheng and A.C. Liu, <a href="#">"Network Management Support for Monitoring Distributed Applications,"</a> 1994 電腦應用研討會, 127-132 , 1994-07. 南投, 台灣.
31	D.L. Yang, A.C. Liu, D.M. Liou, and J.R. Chen, <a href="#">"A Synchronization Mechanism for Distributed Multimedia Systems,"</a> <i>Proceedings of 1994 Pacific Distributed Multimedia Systems Workshop</i> , 149-165 , 1994-02. Taipei, Taiwan.
32	D.L. Yang, A.C. Liu, and J.D. Lin, <a href="#">"On OCPN-Based Presentation Model for Distributed Multimedia System,"</a> <i>Proceedings of 8th International Joint Workshop on Computer Communication</i> , 1-8 , 1993-12. Taipei, Taiwan.
33	H.Y. Yang, D.L. Yang, and A.C. Liu, <a href="#">"SD2-A System for Distributed Software Development,"</a> <i>Proceedings of 17th International Computer Software and Applications Conference</i> , 131-137 , 1993-11. Arizona, USA.
34	G.I. Shieh, Y.C. Kao, M. Chao, and A.C. Liu, <a href="#">"Petri Net-based Program Transformation and Monitoring,"</a> <i>International Computer Symposium</i> , 643-650 , 1992-12. Taichung, Taiwan.
35	C.H. Tuan, M. Chao, D.M. Liou, and A.C. Liu, <a href="#">"Design and Implementation of a Replay Mechanism in a Distributed Environment,"</a> <i>Proceedings of the 13th International Telecommunication Symposium</i> , 157-164 , 1992-02. Taipei, R.O.C.
36	A.C. Liu and A. Engberts, <a href="#">"A Petri Net-based Distributed Debugger,"</a> <i>Proceedings of the 14th International Computer Software and Applications Conference</i> , 639-646 , 1990-10. Chicago, USA.
37	C. T. Hwang, W. B. Tsay, C. H. Chang, A. C. Liu, and Ted C. Yang, <a href="#">"Error Recovery and Data Consistency in a Fault-Tolerant Distributed System,"</a> 1989 ISMM International Conference on Intelligent Distributed Processing , 45-48 , 1989-08. Fort Lauderdale, USA.
38	Y.H. Chang and A.C. Liu, <a href="#">"Process Synchronization in a Multi-Media Distributed System,"</a> 1988 International Conference on Advanced Science and Technology ,



	123-133 , 1988-03. Chicago, Illinois.
39	A.C. Liu, Y.M. Zou, and D.M. Liou, " <a href="#">Divide-and-Conquer for a Shortest Path Problem</a> ," <i>1987 International Conference on Parallel Processing</i> , 210-212 , 1987-08. St. Charles, Illinois.
40	B. Bodnar and A.C. Liu, " <a href="#">Single-Bus Tightly-Coupled Multiprocessor Modeling and Analysis</a> ," <i>ISMM International Symposium on Mini and Microcomputers and Their Applications</i> , 6-10 , 1986-08. Austin, Texas.
41	A.C. Liu and H.C. Lin, " <a href="#">Modeling Nuclear Power Plant by Petri Nets</a> ," <i>Proceedings of the 1986 International Conference on Computers in Engineering Conference</i> , 151-155 , 1986-07. Chicago, Illinois.
42	A.C. Liu and H.M. Harb, " <a href="#">A Model for Task Allocation in a Distributed System</a> ," <i>International AMSE Conference on Modeling and Simulation</i> , 1985-11. Monastir, Tunisia.
43	A.C. Liu, " <a href="#">IMS - A System for Multiprocessing</a> ," <i>1984 International Computer Symposium</i> , 34-38 , 1984-12. Taipei, Taiwan.
44	A.C. Liu, " <a href="#">AND/OR Graphs: A Model for Implementing a Distributed Program</a> ," <i>Proceedings of the 8th International Computer Software and Applications Conference</i> , 200-207 , 1984-11. Chicago, Illinois.
45	A.C. Liu, " <a href="#">An AND/OR Language for Distributed Processes</a> ," <i>1984 IEEE Workshop on Languages for Automation</i> , 2-6 , 1984-11. New Orleans, Louisiana.
46	A.C. Liu and S.K. Chang, " <a href="#">Site Selection in Distributed Query Processing</a> ," <i>Proceedings of the 3rd International Conference on Distributed Computing Systems</i> , 7-12 , 1982-10. Miami, Florida.
47	A.C. Liu and S.K. Chang, " <a href="#">IRAIN - An Instructional Relational Database System Designed for Small Computer System</a> ," <i>Proceedings of the 5th ACM SIGSMALL Symposium on Small System</i> , 82-86 , 1982-08. Colorado Springs.
48	S.K. Chang and A.C. Liu, " <a href="#">A Database File Allocation Problem</a> ," <i>Proceedings of the 5th International Computer Software and Applications Conference</i> , 18-13 , 1981-11. Chicago, Illinois.

## 專書及技術報告

類別	作者群	書名	出版單位	出版單位國別	出版日期	頁數	內容來源	備註
1 專業書籍	劉安之、李秉乾、楊龍士、連惠邦、周天穎	國家災害防救科技中心加強彰化縣、台中市防救災作業能力	國家災害防救科技中心	中華民國	2004-08		原著	執行中
2 技術報告	趙啟時、劉安之	利用 SNMP MIB 建置 WLAN 管理系統	網路通訊雜誌	中華民國	2004-06	6	原著	Vol 155, pp. 92-97
3 技術報告	趙啟時、劉安之	VoIP 管理功課不能少	網路通訊雜誌	中華民國	2004-04	7	原著	Vol 154, pp. 53-59

4	專業書籍	S.C. Ke, C.S. Chao, and A.C. Liu	網路電話管理系統的 規劃與建置	網路 通訊 雜誌	中 華 民 國	2003-02		原 著	
5	技術報告	劉安之、楊東 麟、趙啟時	整合式自動化網路錯 誤診斷系統	工程 科技 通訊 (第 60 期)	中 華 民 國	2002-02	4	原 著	pp. 75-78 (國科 會)
6	技術報告	劉安之、楊東 麟、朱正忠	分散式軟體發展測試 床	工程 科技 通訊 (第 24 期)	中 華 民 國	1997-06	4	原 著	pp. 14-17 (國科 會)
7	專業書籍	劉安之	網路管理	資訊 與電 腦雜 誌社 出版	中 華 民 國	1994-08	185	原 著	
8	技	An-Chi Liu	Proceedings of International	逢甲	中	1992-12	700	編	

	術 報 告		Computer Symposium 1992	大學	華 民 國			譯 或 翻 譯	
9	專 業 書 籍	劉安之	縱橫 UNIX 導引篇	資訊 與電 腦雜 誌社 出版	中 華 民 國	1991-08	162	原 著	

## 核准專利

	專利名稱	類別	文號	日期(起)	日期(迄)
1	非侵入式微型感測訊號的量測電路	發明	發明第 1340411 號	2001-03	2004-03

## 國科會計畫

	計畫名稱	計畫日期 (起)	計畫日期 (迄)	計畫編號
1	網際網路防火牆政策驗證系統	2005-08	2006-07	NSC94-2213-E-035-009-
2	以規劃設計為導向之全方位型 數位學習科技計畫(III)	2005-05	2006-04	NSC94-2524-S-035-001

3	提升產業技術及人才培育研究 計畫—具通話品質監控之 VoIP 網路故障偵測系統	2004-05	2005-04	NSC93-2622-E-035-001-CC3
4	提升產業技術及人才培育研究 計畫—具通話品質監控之 VoIP 網路故障偵測系統(國庭科技 股份有限公司配合款)	2004-05	2005-04	NSC93-2622-E-035-001-CC3
5	以規劃設計為導向之全方位型 數位學習科技計畫(II)	2004-05	2005-04	NSC93-2524-S-035-001
6	以規劃設計為導向之全方位型 數位學習科技計畫( I )	2003-05	2004-04	NSC92-2524-S-035-002
7	以事件關聯推理為主之網路服 務管理( I )	2002-08	2003-07	NSC91-2213-E-035-027
8	網路電話服務存取管理系統之 研發與實作	2002-06	2003-05	NSC91-2622-E-035-019-CC3
9	網路電話服務存取管理系統之 研發與實作(國庭科技股份有 限公司配合款)	2002-06	2003-05	NSC91-2622-E-035-019-CC3
10	互動式網路事件管理服務系統	2001-08	2002-07	NSC90-2811-E-035-002

	(博士後研究：趙啟時)			
11	互動式網路事件管理服務系統	2001-08	2002-07	NSC90-2213-E-035-031
12	整合式自動化網路錯誤診斷系統(Ⅲ)	2000-08	2001-07	NSC89-2213-E-035-076
13	資訊學門因應廿一世紀資訊科技規劃(Ⅰ)	1999-11	2000-10	NSC89-2213-E-035-045
14	整合式自動化網路錯誤診斷系統(Ⅱ)	1999-08	2000-07	NSC89-2213-E-035-004
15	整合式自動化網路錯誤診斷系統-管理模型規格設定環境	1998-08	1999-07	NSC88-2213-E-035-008
16	整合式網路管理專家系統	1997-08	1998-07	NSC87-2213-E-035-002
17	異質環境下之分散式系統管理	1996-08	1997-07	NSC86-2213-E-035-004
18	中斷點和檢查點在分散式除錯器之應用	1995-08	1996-07	NSC 85-2213-E-035-006
19	分散式軟體發展測試床(Ⅲ)	1994-08	1995-07	NSC 84-2213-E-035-003
20	智慧型物理科補助學習系統(Ⅱ)	1994-06	1995-07	NSC83-0111-S035-001-CL
21	分散式軟體發展測試床(Ⅱ)	1993-08	1994-07	NSC83-0408-E035-001

22	智慧型物理科輔助學習系統	1993-06	1994-05	NSC82-0111-S-035-005
23	分散式軟體發展測試床(中型儀器費)	1992-08	1993-07	NSC82-0204-E-035-005
24	分散式軟體發展測試床	1992-08	1993-07	NSC82-0408-E035-006

### 獎勵及指導學生獲獎

年度	獲獎名稱	授獎單位	獲獎日期	備註
1 92	九十二年論文佳作獎	中華民國電腦學會	2004-04	得獎人：陳昱忻、趙啟時、劉安之
2 90	全民資訊應用技術能力大賽-PDA程式設計第一名	中華民國電腦基金會	2002-08	
3 90	Pocket PC 應用程式開發暨創意競賽第一名	卡西歐	2001-08	
4 89	國科會甲種獎勵	行政院 國科會	2000-08	An Automated Fault Diagnosis System using Hierarchical Reasoning and Alarm Correlation



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