Kuan-Ching Li

IET Fellow, IEEE Senior Member
World's Top 2% Scientist (Stanford/Elsevier)

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Research Interests

Parallel and Distributed Processing, Big Data, Blockchain, Edge Intelligence, Emerging Technologies

Experience

- **Life Distinguished University Professor**
  Providence University, Taiwan *Aug/2023 - date*
- **Director**
  AWS Academy, Providence University, Taiwan *Feb/2018 - date*
- **Director**
  Intel FPGA HPC/AI Lab, Providence University, Taiwan *May/2019 - date*

Professional Society Membership

- IET Fellow - No. 1100179530 (Mar/2011 - Date)
- IEEE Senior Member - No. 80747493 (Sept/2007 - Date)
- KCIA (Korea Computer Industry Association) Fellow (May/2024 –Date)
- AAAS Member - No. 41666820 (Mar/2017 - Date)
- TACC Taiwan Association for Cloud Computing –Life Member (Mar/2007 - Date)
- Founding Member, IEEE Computer Society STC Parallel Model and System: Dataflow and Beyond (2016–present)

Journal and Book Series Editorship

- **Editor-in-Chief** SCIE, EI/ ISSN(Online):1878-7401
  Technology and Health Care, Sage *Jan/2026 - date*
- **Topic Editor-in-Chief** SCIE, EI/ ISSN(Online):1729-8814
  Int. J. of Advanced Robotic Systems, Sage *May/2024 - date*
- **Editor-in-Chief** ESCI, EI/ ISSN(Online):1741-1076
  Int. J. of Embedded Systems, Inderscience *Jan/2014 - date*
- **Editor-in-Chief** ESCI, EI/ ISSN(Online):1742-7193
  Int. J. of Computational Science and Engineering, Inderscience *Jan/2009 - date*

- **Associate Editor** SCIE, EI/ ISSN(Online):1989-1660
  Int. J. of Interactive Multimedia and AI, UNIR *Aug/2023 - date*
- **Associate Editor** SCIE, EI/ ISSN(Online):1572-9451
  Telecommunication Systems, Springer *Aug/2023 - date*
- **Associate Editor** SCIE, EI/ ISSN(Online):2406-1018
  Computer Science and Information Systems, ComSIS *Aug/2023 - date*
- **Series Editor** /ISSN(Online):2731-9563
  SpringerBriefs in Information Security and Cryptography, Springer *Jan/2019 - date*

Chair Scholar

- **Senior Research Fellow** Aversa, Italy
  Università degli studi della Campania Luigi Vanvitelli *Jan/2024 - Present*
- **"Chutian" Scholar** Hubei, China
  (Talented Provincial Scholar) *Jan/2015 - Dec/2019*
- **"Minjiang" Scholar** Fujian, China
  (Talented Provincial Scholar) *Jan/2015 - Dec/2017*

Education

- **Post-doctoral** Irvine, CA, USA
  Dept. of EECS, Univ. of California-Irvine *Aug/2012 - Dec/2013*
- **Post-doctoral** Los Angeles, CA, USA
  Dept. of EE-Systems, Univ. of Southern California *Oct/2001 - Jan/2002*
- **Ph.D.** São Paulo, Brazil
  Dept. of Electrical Engineering, Polytechnic School, Univ. of São Paulo *Sept/1996 - Oct/2001*
- **M.Eng.** São Paulo, Brazil
  Dept. of Electrical Engineering, Polytechnic School, Univ. of São Paulo *Sept/1994 - Aug/1996*
- **Licenciatura** São Paulo, Brazil
  Dept. of Mathematics, Institute of Mathematics and Statistics, Univ. of São Paulo *Feb/1987 - June/1994*

Honors and Awards

- **World's Top 2% Scientist** Stanford University / Elsevier
  2025, 2024, 2023, 2022
- **Highly Ranked Scholar** ScholarGPS
  Prior Five Years in All Fields of Endeavor *2025*

- **Highly Ranked Scholar** ScholarGPS
  Prior Five Years in the Field of Engineering *2025*

- **Top Cited Scholar** Scilit
  Top 20 out of over 150,000 scholars in the field of Distributed Computing *2025*
  - In the 3rd edition of the Scilit Top Cited Scholars list released (late 2025), the selected scholars represent only 0.038% of the 21.2 million researchers worldwide. Alongside this, field-specific rankings were announced, and Dr. Li ranked among the top 20 out of over 150,000 scholars in the field of Distributed Computing.

- **Best Journal Paper Award** Taiwan
  Taiwan Association for Cloud Computing (TACC) *2025*
  - "BCAE: A Blockchain-Based Cross Domain Authentication Scheme for Edge Computing" , IEEE Internet of Things Journal,11(13), p. 24035-24048, 2024 DOI:10.1109/JIOT.2024.3387934

- **Top10 Most Cited Paper** Wiley
  2024
  - "Ensemble machine learning approaches for webshell detection in Internet of Things Environments", Transactions on Emerging Telecommunications Technologies DOI:10.1002/ett.4085

- **MDPI Highly Cited Paper** MDPI
  2022-2024
  - "A Systematic Review of Consensus Mechanisms in Blockchain" , Mathematics, 11(10), article 2248, 2023 DOI:10.3390/math11102248

- **Top Viewed Paper** Wiley
  2023
  - "An evolutive framework for server placement optimization to digital twin networks" , International Journal of Communication Systems, 36(14), article e5553, 2023 DOI:10.1002/dac.5553

- **IEEE Innovation Spotlight** IEEE
  2022
  - "A More Reliable Way of Using Blockchain for Cloud Storage" , web:https://innovate.ieee.org/innovation-spotlight/a-more-reliable-way-of-using-blockchain-for-cloud-storage/

- **Editor's Choice Articles** MDPI
  2022
  - "Enhancing the Sensor Node Localization Algorithm Based on Improved DV-Hop and DE Algorithms in Wireless Sensor Networks" , 20(2), 343, 2020 DOI:10.3390/s20020343

- **Best Journal Paper Award** Taiwan
  Taiwan Association for Cloud Computing (TACC) *2021*
  - "SBBS: A Secure Blockchain-Based Scheme for IoT Data Credibility in Fog Environment", IEEE Internet Things Journal, 8(11), p. 9268-9277, 2021 DOI:10.1109/JIOT.2021.3057045

- **High-Impact Publication** Springer
  Publication in Computer Science by Chinese researchers, Springer Nature *2019*
  - "Advances in Cyber Security: Principles, Techniques, and Applications" , Kuan-Ching Li, Xiaofeng Chen, Willy Susilo (Eds.), Springer, 2019

- **Best Paper Award** Taiwan
  TANET' 2019 *2019*

- **Best Paper Award** Brazil
  GPC'2019 *2019*
  - "BlockP2P: Enabling Fast Blockchain Broadcast with Scalable Peer-to-Peer Network Topology" , LNCS11484, Springer, DOI:10.1007/978-3-030-19223-5_16

- **Best Journal Paper Award** Taiwan
  Association for Algorithms and Computation Theory (AACT) *2017*
  - "Tong Li, Zheli Liu, Jin Li, Chunfu Jia, Kuan-Ching Li, "CDPS: A cryptographic data publishing system", J. Comput. Syst. Sci, 89, 80-91, 2017"

- **Outstanding Talent program** Taiwan
  Ministry of Science and Technology (NSC)
  - 2024, 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016

- **Luking Outstanding Talent program** Taiwan
  Providence University
  - 2015, 2014, 2013, 2012, 2011, 2010, 2009

- **Best Paper Award** Taiwan
  Taiwan Association for Medical Informatics (MIST) *2007*
  - "An RSS-based Pilot System for Clinical Information Reminder", Journal of Tzuchi University, 31-44, 2007"

Certification

- EMI English as Medium Instruction, Cambridge University, UK, 2022
- CCNA CyberSecurity Operations Instructor, Cisco, June/2020

Other Activities

- PhD Thesis External Reviewer, National Institute of Technology, Meghalaya, India, 2025
- PhD Thesis External Reviewer, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar, India, 2025
- PhD Thesis External Reviewer, IIIT Bhubaneswar, India, 2025
- PhD Thesis External Reviewer, National Institute of Technology, Warangal, India, 2024
- PhD Thesis External Reviewer, National Institute of Technology Kurukshetra, Haryana, India, 2018, 2019
- PhD Thesis External Reviewer, VSS University of Technology, Burla, Odisha (VSSUT), India, 2018, 2019
- PhD Thesis External Reviewer, Rama Devi Women's University, India, 2018, 2019
- PhD Thesis External Reviewer, Anna University, Chennai, India, 2014, 2015, 2016, 2018, 2019
- PhD Thesis External Reviewer, University of South Australia, Adelaide, 2016

Past Experiences

- Distinguished University Professor, Dept. of Computer Science and Information Engineering, Providence University, Taiwan (Aug/2017 –Jul/2023)
- Special Associate to the University President, Providence University, Taiwan (Oct/2010 –Jul/2022)
- Director, Nvidia GPU Education Center, Providence University, Taiwan (Aug/2012 –Jul/2022)
- Director, Nvidia GPU Research Center, Providence University, Taiwan (Aug/2013 –Jul/1023)
- "Chutian" Distinguished Chair Professor (楚天特聘講座), Hubei University of Education, China (JAN/2015 –DEC/2019)
- "Minjiang" Chair Professor Professor (閩江講座教授), Xiamen University, China (JAN/2015 – DEC/2017)
- Guest Professor, Xiamen University, China (JAN/2018 –DEC/2020)
- Guest Professor, Lanzhou University, China (2010 –2018)
- Guest Professor, Shanghai University, China (2011 –2018)
- Guest Professor, Huazhong University of Science and Technology, China (2014 –2017)
- Guest Professor, Lanzhou Jiaotong University, China (2013 –2017)

- Professor, Dept. of Computer Science and Information Engineering, Providence University, Taiwan (Aug/2009 –Jul/2017)
- Vice-Director, Office of International and Cross-Strait Affairs, Providence University, Taiwan (2014–2016)
- International Expert member, Chang Jiang Scholars Program, Ministry of Education (MOE), China (2015)
- Guest Professor, Xidian University, China (2014 –2015)
- Guest Professor, Huazhong University of Science and Technology, China (2013 –2015)
- Distinguished International Expert, Chengdu University, China (June/2015)
- Hon. Secretary, IET Taipei iLN Network (May/2012 –May/2013)
- Director of Cloud Core Curriculum Programme, Cloud Computing Resources Center (funded by Ministry of Education, Taiwan) (2010 –2011)
- Guest Professor, Federal University of ABC (UFABC), Brazil (July/2011)
- Consultant, IEEE Taipei Chapter (January/2010 –December/2010)
- Department Chairman, Dept. of Computer Science and Information Engineering, Providence University, Taiwan (Aug/2009 –Jul/2010)
- Associate Professor, Dept. of Computer Science and Information Engineering, Providence University, Taiwan (Aug/2006 –Jul/2009)
- Associate Professor, Dept. of Computer Science and Information Management, Providence University, Taiwan (Feb/2006 –Jul/2006)
- Assistant Professor, Dept. of Computer Science and Information Management, Providence University, Taiwan (Feb/2003 –Jan/2006)
- Research Scientist, Department of Electrical Engineering - Systems, University of Southern California, USA (Nov/2001 –Feb/2002)
- Researcher, Dept. of Computer Engineering and Digital Systems, University of São Paulo, Brazil (Feb/1997 –Oct/2001)
- Lecturer, Department of Applied Mathematics, Institute of Mathematics and Statistics, University of São Paulo, Brazil (Jan/1994 –Dec/1994)
- Visiting Scholar, Center for Supercomputing Research & Development, University of Illinois at Urbana-Champaign, USA (Mar/1996)

Book Editorship

1. ”Cybersecurity & High-Performance Computing Environments: Integrated Innovations, Practices, and Applications”, Kuan-Ching Li, Nitin Sukhija, Elizabeth Bautista, Jean-Luc Gaudiot (Eds.), CRC Press, Taylor & Francis, 2022

2. ”Security, Privacy, and Trust for Internet of Things”, Kuan-Ching Li, Brij B. Gupta, Dharma P. Agrawal (Eds.), CRC Press, Taylor & Francis, 2021

3. ”Essentials of Blockchain Technology”, Kuan-Ching Li, Xiaofeng Chen, Hai Jiang, Elisa Bertino (Eds.)(Chapman & Hall/CRC Big Data Series) CRC Press, Taylor & Francis, 2019

4. “Smart Data: State-of-the-Art Perspectives in Computing and Applications” , Kuan-Ching Li, Beniamino DiMartino, Laurence T. Yang, Qingchen Zhang (Eds.) (Chapman & Hall/CRC Big Data Series) CRC Press, Taylor & Francis, 2019

5. “Advances in Cyber Security: Principles, Techniques, and Applications” , Kuan-Ching Li, Xiaofeng Chen, Willy Susilo (Eds.), Springer, 2019

6. “無人駕駛: 原理與實踐” , 申澤邦、雍兵兵、周慶國、李良、李冠憬 (Eds.), 機械工業出版社, 2019

7. “Internet of Everything - Algorithms, Methodologies, Technologies and Perspectives” , Beniamino Di Martino, Kuan-Ching Li, Laurence T. Yang, Antonio Esposito (Eds.), Internet of Things book series, Springer, 2018

8. “Big Data Management and Processing” , Kuan-Ching Li, Hai Jiang, Albert Zomaya (Eds.) (Chapman & Hall/CRC Big Data Series) CRC Press, Taylor & Francis, 2017

9. “Big Data: Algorithms, Analytics and Applications” , Kuan-Ching Li, Hai Jiang, Laurence Tianruo Yang, Alfredo Cuzzocrea (Eds.) (Chapman & Hall/CRC Big Data Series), CRC Press, Taylor & Francis, 2015

10. “Cloud Computing and Digital Media: Fundamentals, Techniques, and Applications” , Kuan-Ching Li, Qing Li, Timothy K. Shih (Eds.), Chapman & Hall/CRC Press, 2014

11. “雲端程式運算：入門與應用實務” , 鐘葉青、許慶賢、賴冠州、李冠憬 (Eds.), McGraw-Hill, 2011

12. “Handbook of Research on Scalable Computing Technologies” , Kuan-Ching Li, Ching-Hsien Hsu, Laurence Tianruo Yang, Jack Dongarra, Hans Zima (Eds.), IGI Global, 2010

13. Intelligent Technologies Concepts, Applications, and Future Directions, Volume 4, Himansu Das, Chittaranjan Pradhan, Surbhi Bhatia Khan, Kuan Ching Li, SCI 1212, 2025

14. Computing, Communication and Learning - Third International Conference, CoCoLe 2024, Warangal, India, September 13-15, 2024, Revised Selected Papers. Sanjaya Kumar Panda,

Rajkumar Buyya, Rashmi Ranjan Rout, Manjubala Bisi, Sangharatna Godboley, Kuan-Ching Li, Ashish Ghosh (Eds.), CCIS 2317, Springer, 2025

15. 4th International Conference, UbiSec 2024, Changsha, China, December 29–31, 2024, Revised Selected Papers. Guojun Wang, Zheng Yan, Kuan-Ching Li, Yulei Wu (Eds.), CCIS 2469, Springer, 2025

16. Fifth International Conference on Computing and Network Communications - Proceedings of CoCoNet 2023, Volume 2, Sabu M. Thampi, Vipin Chaudhary, Al-Sakib Khan Pathan, Kuan-Ching Li, Dilip Krishnaswamy (Eds.), LNEE 1221, Springer, 2024

17. Intelligent Technologies - Concepts, Applications, and Future Directions, Volume 3. Himansu Das, Arup Abhinna Acharya, Kuan-Ching Li (Eds.), SCI 1167, Springer, 2024

18. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2024, Volume 2, Umakanta Nanda, Asis Kumar Tripathy, Jyoti Prakash Sahoo, Mahasweta Sarkar, Kuan-Ching Li (Eds.), LNNS 1015, Springer, 2024

19. Proceedings of the 7th International Conference on Advance Computing and Intelligent Engineering - ICACIE 2022 - Conference proceedings, Bibudhendu Pati, Chhabi Rani Panigrahi, Prasant Mohapatra, Kuan-Ching Li (Eds.), LNNS 1, Springer, 2024

20. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2024, Volume 1, Umakanta Nanda, Asis Kumar Tripathy, Jyoti Prakash Sahoo, Mahasweta Sarkar, Kuan-Ching Li (Eds.), LNNS 955, Springer, 2024

21. Computing, Communication and Learning - Second International Conference, CoCoLe 2023, Warangal, India, August 29–31, 2023, Proceedings Sanjaya Kumar Panda, Rashmi Ranjan Rout, Manjubala Bisi, Ravi Chandra Sadam, Kuan-Ching Li, Vincenzo Piuri (Eds.), CCIS 1892, Springer, 2024

22. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2023 Suchismita Chinara, Asis Kumar Tripathy, Kuan-Ching Li, Jyoti Prakash Sahoo, Alekha K. Mishra (Eds.), LNNS 660, Springer, 2023

23. Intelligent Technologies: Concepts, Applications, and Future Directions, Volume 2 Satya Ranjan Dash, Himansu Das, Kuan-Ching Li, Esau Villatoro Tello (Eds.), SCI 1098, Springer, 2023

24. International Symposium on Intelligent Informatics - Proceedings of ISI 2022 Sabu M. Thampi, Jayanta Mukhopadhyay, Marcin Paprzycki, Kuan-Ching Li (Eds.), SIST 333, Springer, 2023

25. Computing, Communication and Learning - First International Conference, CoCoLe 2022, Warangal, India, October 27–29, 2022, Proceedings Sanjaya Kumar Panda, Rashmi Ranjan Rout,

Ravi Chandra Sadam, Bala Venkata Subramaanyam Rayanoothala, Kuan-Ching Li, Rajkumar Buyya (Eds.), CCIS 1729, Springer, 2023

26. Proceedings of the 6th International Conference on Advance Computing and Intelligent Engineering ICACIE 2021 Bibudhendu Pati, Chhabi Rani Panigrahi, Prasant Mohapatra, Kuan-Ching Li (Eds.), LNNS 428, Springer, 2022

27. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2022 Rashmi Ranjan Rout, Soumya Kanti Ghosh, Prasanta K. Jana, Asis Kumar Tripathy, Jyoti Prakash Sahoo, Kuan-Ching Li (Eds.), LNNS 427, Springer, 2022

28. Intelligent Technologies: Concepts, Applications, and Future Directions Satya Ranjan Dash, Manas Ranjan Lenka, Kuan-Ching Li, Esaú Villatoro-Tello (Eds.), SCI 1028, Springer, 2022

29. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2021 Jyoti Prakash Sahoo, Asis Kumar Tripathy, Manoranjan Mohanty, Kuan-Ching Li, Ajit Kumar Nayak (Eds.), LNNS 302, Springer, 2022

30. Advances in Computing and Network Communications - Proceedings of CoCoNet 2020, Volume 2 Sabu M. Thampi, Erol Gelenbe, Mohammed Atiquzzaman, Vipin Chaudhary, Kuan-Ching Li (Eds.), LNEE 736, Springer, 2021

31. Advances in Computing and Network Communications - Proceedings of CoCoNet 2020, Volume 1 Sabu M. Thampi, Erol Gelenbe, Mohammed Atiquzzaman, Vipin Chaudhary, Kuan-Ching Li (Eds.), LNEE 735, Springer, 2021

32. Progress in Advanced Computing and Intelligent Engineering Chhabi Rani Panigrahi, Bibudhendu Pati, Binod Kumar Pattanayak, Seeven Amic, Kuan-Ching Li (Eds.), AISC 1299, Springer, 2021

33. Progress in Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2020 Chhabi Rani Panigrahi, Bibudhendu Pati, Prasant Mohapatra, Rajkumar Buyya, Kuan-Ching Li (Eds.), AISC 1198, Springer, 2021

34. Machine Learning and Metaheuristics Algorithms, and Applications - Second Symposium, SoMMA 2020, Chennai, India, October 14–17, 2020, Revised Selected Papers Sabu M. Thampi, Selwyn Piramuthu, Kuan-Ching Li, Stefano Berretti, Michal Wozniak, D Singh (Eds.), CCIS 1366, Springer, 2021

35. Progress in Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2019, Volume 2 Chhabi Rani Panigrahi, Bibudhendu Pati, Prasant Mohapatra, Rajkumar Buyya, Kuan-Ching Li (Eds.), AISC 1199, Springer, 2020

36. Progress in Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2019, Volume 1 Chhabi Rani Panigrahi, Bibudhendu Pati, Prasant Mohapatra, Rajkumar Buyya, Kuan-Ching Li (Eds.), AISC 1198, Springer, 2021

37. Advances in Distributed Computing and Machine Learning - Proceedings of ICADCML 2020 Asis Kumar Tripathy, Mahasweta Sarkar, Jyoti Prakash Sahoo, Kuan-Ching Li, Suchismita Chinara (Eds.), LNNS 127, Springer, 2020

38. Machine Learning and Metaheuristics Algorithms, and Applications - First Symposium, SoMMA 2019, Trivandrum, India, December 18–21, 2019, Revised Selected Papers Sabu M. Thampi, Ljiljana Trajkovic, Kuan-Ching Li, S. Das, Michal Wozniak, Stefano Berretti (Eds.), CCIS 1203, Springer, 2020

39. Progress in Computing, Analytics and Networking - Proceedings of ICCAN 2019 Himansu Das, Prasant Kumar Pattnaik, Siddharth Swarup Rautaray, Kuan-Ching Li (Eds.), AISC 1119, Springer, 2020

40. Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2018, Volume 2 Bibudhendu Pati, Chhabi Rani Panigrahi, Rajkumar Buyya, Kuan-Ching Li (Eds.), AISC 1089, Springer, 2020

41. Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2018, Volume 1 Bibudhendu Pati, Chhabi Rani Panigrahi, Rajkumar Buyya, Kuan-Ching Li (Eds.), AISC 1082, Springer, 2020

42. Computational Intelligence and Data Science Vijendra Singh, Vijayan K Asari, Kuan-Ching Li (Eds.), Procedia Computer Science vol. 167, Elsevier, 2020

43. Advances in Signal Processing and Intelligent Recognition Systems - 4th International Symposium SIRS 2018, Bangalore, India, September 19–22, 2018, Revised Selected Papers Sabu M. Thampi, Oge Marques, Sri Krishnan, Kuan-Ching Li, Domenico Ciuonzo, M. H. Kolekar (Eds.), CCIS 968, Springer, 2019

44. Progress in Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2017, Volume 2 Chhabi Rani Panigrahi, Arun K. Pujari, Sudip Misra, Bibudhendu Pati, Kuan-Ching Li(Eds.), AISC 714, Springer, 2019

45. Progress in Advanced Computing and Intelligent Engineering - Proceedings of ICACIE 2017, Volume 2 Chhabi Rani Panigrahi, Arun K Pujari, Sudip Misra, Bibudhendu Pati, Kuan-Ching Li (Eds.), AISC 714, Springer, 2017

46. Intelligent Systems Technologies and Applications Sabu M. Thampi, Sushmita Mitra, J. Mukhopadhyay, Kuan-Ching Li, Alex Pappachen James, Stefano Berretti (Eds.), AISC 683, Springer, 2018

47. Green, Pervasive, and Cloud Computing - 12th International Conference, GPC 2017, Cetara, Italy, May 11-14, 2017, Proceedings Man Ho Allen Au, Arcangelo Castiglione, Kim-Kwang R. Choo, Francesco Palmieri, Kuan-Ching Li (Eds.), LNCS 10232, Springer, 2017

48. Green, Pervasive, and Cloud Computing - 11th International Conference, GPC 2016, Xi'an, China, May 6-8, 2016. Proceedings Xinyi Huang, Yang Xiang, Kuan-Ching Li (Eds.), LNCS 9663, Springer, 2016

49. Advances in Signal Processing and Intelligent Recognition Systems - Proceedings of Second International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS-2015) December 16-19, 2015, Trivandrum, India Sabu M. Thampi, S. Bandyopadhyay, Sri Krishnan, Kuan-Ching Li, Sergey Mosin, Maode Ma (Eds.), AISC 425, Springer, 2016

50. Frontier Computing Theory, Technologies and Applications Jason C. Hung, Neil Yen, Kuan-Ching Li (Eds.), LNEE 375, Springer, 2016

51. Emerging Directions in Embedded and Ubiquitous Computing - EUC 2007 Workshops: TRUST, WSOC, NCUS, UUWSN, USN, ESO, and SECUBIQ, Taipei, Taiwan, December 1-4, 2007, Proceedings Mieso K. Denko, Chi-Sheng Shih, Kuan-Ching Li, Shiao-Li Tsao, Qing-An Zeng, Soo Hyun Park, Young-Bae Ko, Shih-Hao Hung and Jong Hyuk Park (Eds.), LNCS 4809, Springer, 2007

52. Advances in Grid and Pervasive Computing - Second International Conference, GPC 2007, Paris, France, May 2-4, 2007, Proceedings Christophe Cerin and Kuan-Ching Li (Eds.), LNCS 4459, Springer, 2007

53. Emerging Technologies in Knowledge Discovery and Data Mining - PAKDD 2007 International Workshops, Nanjing, China, May 22-25, 2007, Revised Selected Papers Takashi Washio, Zhi-Hua Zhou, Joshua Zhexue Huang, Xiaohua Hu, Jinyan Li, Chao Xie, Jieyue He, Deqing Zou, Kuan-Ching Li and Mario M. Freire (Eds.), LNCS 4819, Springer, 2007

Publication Numbers

High Cited Papers: 20 | Hot Papers: 4

H-index: 56 | i10-index: 284 | Citations: 15000+

Google Scholar

DBLP

Journal Publication

1. Shiwen Zhang, Yibin Yang, Wei Liang, Junlong Zhou, Kuanching Li, Rubén González Crespo: LFD-PEKS: A Lightweight and Fast Dynamic Public-key Encryption with Keyword Search Scheme for multi-user environments. Comput. Stand. Interfaces 95: 104050, 2026

2. Wei Liang, Yang Yang, Sisi Zhou, Zhishun Zhang, Yuxiang Chen, Kai Jin, Xiong Li, Kuanching Li, Jiannong Cao: FGPB-EMR: Fine-grained privacy blockchain for electronic medical record sharing. Comput. Stand. Interfaces 96: 104089, 2026

3. Cheng Peng, Jing Liao, Lei Jiang, Wei Liang, Antonio Esposito, Kuanching Li, Junsong Yuan: DAFNet: A novel image restoration model with mixed SimpleGate. Digit. Signal Process. 168: 105492, 2026

4. Zhimin Feng, Dezhi Han, Jiatao Li, Shuxin Shi, Kuan-Ching Li: Intrusion detection system for shipping communication networks based on federated distillation learning. Expert Syst. Appl. 299: 129966, 2026

5. Rui Xie, Wei Liang, Yuxiang Chen, Dacheng He, Kai Jin, Kuanching Li, Kim Fung Tsang: StarCPFL: Star-Centric Personalized Federated Learning with layer-wised clustering. Future Gener. Comput. Syst. 175: 108037, 2026

6. Baotong Wang, Chenxing Xia, Xiuju Gao, Yuan Yang, Bin Ge, Kuan-Ching Li, Yan Zhang: PV-MM3D: Point-voxel parallel dual-stream framework with dual-attention region adaptive fusion for multimodal 3D object detection. Inf. Fusion 128: 103983 (2026)

7. Chenxing Xia, Jingjing Wang, Xiuju Gao, Bin Ge, Wenjun Zhao, Kuan-Ching Li, Xianjin Fang, Yan Zhang: Dynamic selection fusion network for RGB-D salient object detection. Comput. Electr. Eng. 128: 110701, 2025

8. Sanjaya Kumar Panda, Aditya Srivastav, Aniket Singh, Kuan-Ching Li: A renewable energy-based virtual machine placement algorithm for managing energy and carbon in geographically distributed datacenters. Clust. Comput. 28(10): 666, 2025

9. Dun Li, Noël Crespi, Roberto Minerva, Wei Liang, Kuan-Ching Li, Joanna Kolodziej: DPS-IIoT: Non-interactive zero-knowledge proof-inspired access control towards information-centric Industrial Internet of Things. Comput. Commun. 233: 108065, 2025

10. Sepehr Ebrahimi Mood, Alireza Souri, Nihat Inanç, Kuan-Ching Li: CEEO: an innovative Coulomb-enhanced Equilibrium Optimizer for task scheduling of cloud services in IoT environments. Computing 107(6): 138, 2025

11. Shiwen Zhang, Wen Zhang, Wei Liang, Kuanching Li, Ciprian Dobre: Blockchain-based secure and verifiable storage scheme for IPFS-assisted IoT with homomorphic encryption. Computing 107(6): 148, 2025

12. Yuhao Zhou, Shunxiang Zhang, Caiqin Wang, Yanhui Wang, Xiaolong Wang, Kuanching Li: Topic-oriented sarcasm detection via Entity Knowledge-based prompt learning. Comput. Sci. Inf. Syst. 22(1): 33-57, 2025

13. Han Liu, Dezhi Han, Shukai Zhang, Jingya Shi, Huafeng Wu, Yachao Zhou, Kuan-Ching Li: ASAM: Asynchronous self-attention model for visual question answering. Comput. Sci. Inf. Syst. 22(1): 199-217, 2025

14. Yufeng Xiao, Xueting Huang, Wei Liang, Jingnian Liu, Yuxiang Chen, Rui Xie, Kuanching Li, Nam Ling: Medical images anomaly detection for imbalanced datasets with multi-scale normalizing flow. Comput. Sci. Inf. Syst. 22(1): 219-238, 2025

15. Shiwen Zhang, Shuang Chen, Wei Liang, Kuanching Li, Arcangelo Castiglione, Junsong Yuan: PFLIC: A novel personalized federated learning-based iterative clustering. Comput. Sci. Inf. Syst. 22(3): 945-970, 2025

16. Xiaoliang Wang, Chuncao Li, Yuzhen Liu, Wei Liang, Kuanching Li, Aneta Poniszewska-Maranda: A spatio-temporal graph neural network for EEG emotion recognition based on regional and global brain. Comput. Sci. Inf. Syst. 22(3): 971-989, 2025

17. Shiwen Zhang, Feixiang Ren, Wei Liang, Kuanching Li, Al-Sakib Khan Pathan: VSAF: Verifiable and secure aggregation scheme for federated learning in edge computing. Comput. Sci. Inf. Syst. 22(4): 1405-1432 (2025)

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73. Tien-Hsiung Weng, Kuo-Yang Cheng, Hsiao-Hsi Wang, Kuan-Ching Li, "Design and Implementation of a Performance Analysis and Visualization Toolkit for Cluster Environments" , in ICHIT'2006 The 2006 International Conference on Hybrid Information Technology, CD Proceedings, Korea, 2006.

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78. Chiou-Nan Chen, Kuan-Ching Li, Chuan Yi Tang, Yaw-Lin Lin, Hsiao-Hsi Wang, Tsung-Ying Wu, "On Design and Implementation of a Bioinformatics Portal in Cluster and Grid Environments" , in VECPAR' 2006 The 7th International Meeting on High Performance Computing for Computational Sciences, Brazil, 2006.

79. Kuan-Ching Li, Chuan-Ko Tsai, Yin-Te Tsai, and Hsiao-Hsi Wang, "Toward Design of a E-Learning Platform in Grid Environments" , in GCA' 2006 The 2006 International Conference on Grid Computing and Applications / WORLDCOMP' 2006, USA, 2006.

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84. Liang-Teh Lee, Chia-Ying Tseng, Kang-Yuan Liu and Kuan-Ching Li, "A Wallet-Size Cluster for H.264 Encoding" , in ICITA'2005 The IEEE International Conference on Information Technology and Applications, Australia, 2005.

85. Kuan-Ching Li and Chao-Tung Yang, "Implementation of an Enhanced and Integrated Parallel Programming Education Web-Based Toolkit" , in ITRE'2005 The 3rd IEEE International Conference on Information Technology: Research and Education, Taiwan, 2005.

86. Chao-Tung Yang and Kuan-Ching Li, "The Anatomy to Cluster and Grid Computing Course" , in ITRE'2005 The 3rd IEEE International Conference on Information Technology: Research and Education, Taiwan, 2005.

87. Ssu-Hsuan Lu, Chun-Chieh Yang, Hsiao-Hsi Wang and Kuan-Ching Li, "On Design of Agent Home Scheme for Prefetching Strategy in DSM Systems" , in AINA' 2005 The 19th IEEE International Conference on Advanced Information Networking and Applications, Taiwan, 2005.

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90. Chao-Tung Yang, Po-Chi Shih and Kuan-Ching Li, "A High-Performance Computational Resource Broker for Grid Computing Environments" , in AINA' 2005 The 19th IEEE International Conference on Advanced Information Networking and Applications, vol. II, Taiwan, 2005.

91. Hsun-Chang Chang, Kuan-Ching Li, Yaw-Lin Lin, Chao-Tung Yang, Hsiao-Hsi Wang and Liang-Teh Lee, "Performance Issues of Grid Computing Based on Different Architecture Cluster Computing Platforms" , in AINA' 2005 The 19th IEEE International Conference on Advanced Information Networking and Applications, vol. II, Taiwan, 2005.

92. Kuan-Ching Li, Hsun-Chang Chang, Chao-Tung Yang, Li-Jen Chang, Hsiang-Yao Cheng, and Liang-Teh Lee, "Implementation of Visuel MPI Parallel Program Performance Analysis Tool for Cluster Environments" , in AINA' 2005 The 19th IEEE International Conference on Advanced Information Networking and Applications, vol. II, Taiwan, 2005.

93. Kuan-Ching Li, Hsun-Chang Chang, Chao-Tung Yang, Liria Matsumoto Sato, Chung-Yuan Yang, Yin-Yi Wu, Hsiang-Kai Liao, Min-Chieh Hsieh, Chia-Wei Tsai, and Mao-Yueh Pel, "On Construction of a Visualization Toolkit for MPI Parallel Programs in Cluster Environments" , in AINA' 2005 The 19th IEEE International Conference on Advanced Information Networking and Applications, vol. II, Taiwan, 2005.

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97. Kuan-Ching Li, Jean-Luc Gaudiot and Liria Matsumoto Sato, "Performance Measurement and Prediction of Parallel Programs for NOW environments using P3MP" , in NPDPA´2002 IASTED International Conference on Networks, Parallel and Distributed Processing, and Applications, Tsukuba, Japan, 2002.

98. Jean Marcos Laine, Helio Marci de Oliveira, Edson Toshimi Midorikawa, Liria Matsumoto Sato and Kuan-Ching Li, "Análise e Predição de Desempenho de Programas MPI em Redes de Estações de Trabalho" , in WPerformance´2002 I Workshop em Desempenho de Sistemas Computacionais e de Comunicação / Brazilian Computing Society (SBC) Conference, Florianópolis/SC, Brazil, 2002.

99. Kuan-Ching Li, Liria Matsumoto Sato and Jean-Luc Gaudiot, "On exploiting a graph-based approach representation for parallel programs with MPI" , in PDPTA'2002 International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, USA, 2002.

100. Helio Marci de Oliveira, Jean Marcos Laine, Edson Toshimi Midorikawa, Liria Matsumoto Sato, Kuan-Ching Li and Jean-Luc Gaudiot, "Performance analysis and prediction of some MPI communication primitives" , in PDPTA'2002 International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, USA, 2002.

101. Kuan-Ching Li and Liria Matsumoto Sato, "Representing parallel programs with MPI by exploiting a graph-based approach" , in VII Argentine Congress on Computer Science - The Congress of the Glacier, Patagonia, Argentina, 2001.

102. Kuan-Ching Li, Liria Matsumoto Sato and Jean-Luc Gaudiot, "A tool for performance analysis and prediction of parallel computing on NOW" , in PDPTA'2001 International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, USA, 2001.

103. Kuan-Ching Li, Liria Matsumoto Sato, "Applying Parasys for parallel algorithm analysis" , in PDPTA'99 International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, USA, 1999.

104. Kuan-Ching Li and Liria Matsumoto Sato, "Using Parasys for parallel algorithm performance analysis" , in ICIE'99 International Congress on Informatic Engineering, Buenos Aires, Argentina, 1999.

105. Kuan-Ching Li and Liria Matsumoto Sato, "Parsys: a simulator for parallel algorithm behavior forecast in MIMD architectures" , in ICIE'98 International Congress on Informatic Engineering, Buenos Aires, Argentina, 1998.

106. Kuan-Ching Li and Liria Matsumoto Sato, "Análise de desempenho e comportamento de um algoritmo paralelo utilizando sistema Parasystem" , in XXI CNMAC Congresso Nacional de Matemática Aplicada e Computacional, Caxambu/MG, Brazil, 1998. (in portuguese)

107. Kuan-Ching Li and Liria Matsumoto Sato, "Analyzing parallel system topologies using Parstool" , in ICIE'96/97 International Congress on Informatic Engineering, Buenos Aires, Argentina, 1997.

108. Kuan-Ching Li, K. Zhang: Tuning Parallel Program through Automatic Program Analysis. ISPAN 1996: 330-333

109. Kuan-Ching Li, "Ambiente de Simulação MULT: Uma Breve Introdução e Aplicações" , in XVIII CNMAC - Congresso Nacional de Matemática Aplicada e Computacional, Curitiba/PR, Brazil, 1995. (in portuguese) (Beatriz Neves Award)

110. Kuan-Ching Li and Liria Matsumoto Sato, "Atlanta: um sistema de simulação de arquiteturas MIMD" , in XVIII CNMAC Congresso Nacional de Matemática Aplicada e Computacional, Curitiba/PR, Brazil, 1995. (in Portuguese)

111. Kuan-Ching Li, K. Zhang: Parallel Program Instrumentation for Performance Analysis. PARCO 1995: 513-520

Research Funding

1. "Mobility of higher education students and staff supported by external policy funds"
   Programma Erasmus+ Call 2025
   Date of the award: 19/JUN/2025 ∼ date
   Amount of the award: 62,790EUR (PI, Taiwan side)

2. "Intelligent non-contact physiological signal analysis big data platform for behaviour identification"
   Ministry of Science and Technology (NSTC), Taiwan
   Date of the award: 3 years (AUG/2021 ∼ JUL/2024)
   Amount of the award: 2,970,000NTD (co-PI)

3. Intel FPGA HPC/AI Lab at Providence University, Taiwan
   Date of award: May/2019 ∼ Date
   Intel, USA (PI)

4. AWS Academy at Providence University, Taiwan
   Date of award: Feb/2018 ∼ July/2023
   Amazon, USA (PI)

5. "On improving usability of cloud storage systems with secure policy"
   Ministry of Science and Technology (NSTC), Taiwan
   Date of the award: 1 year (Aug/2018 ∼ Oct/2019)
   Amount of the award: 504,000NTD (PI)

6. "On Improving Storage Availability and Performance in Cloud Storage systems"
   Providence University –University Grant

Date of award: Oct/2017 ∼ July/2018
Amount of the award: 100,000NTD (PI)

7. "Research on cross-domain recommendation service based on user mobile context"
   Ministry of Science and Technology (NSTC), Taiwan
   Date of the award: 1 year (Aug/2017 ∼ Jul/2018)
   Amount of the award: 535,000NTD (co-PI)

8. "Alliance of Cloud Technology and Services (ACTS)"
   Ministry of Science and Technology (NSTC), Taiwan
   Date of the award: 3 years (Feb/2016 ∼ Jan/2019)
   Amount of the award: 9,119,000NTD (co-PI)

9. "Scaling up MapReduce computations in Multi-GPU Environments"
   Ministry of Science and Technology (NSTC), Taiwan
   Date of the award: 1 year (Aug/2016 ∼ Jul/2017)
   Amount of the award: 504,000NTD (sole PI)

10. "On Design and Implementation of Strategies on Fault-Tolerance and Energy Aware in Clouds"
    Sichuan Province Key Laboratory, Sichuan Province, China
    Amount of the award: 6,000RMB (sole PI) Date of the award: 1 year (Jan/2016 ∼ Dec/2016)

11. "On accelerating MapReduce computations in Multi-GPU Environments for Big Data"
    Ministry of Science and Technology (NSTC), Taiwan
    Date of the award: 1 year (Aug/2015 ∼ Jul/2016)
    Amount of the award: 419,000NTD (sole PI)

12. "On Accelerating MapReduce in Multi-GPU Environments"
    Ministry of Science and Technology (NSTC), Taiwan
    Date of the award: 1 year (Aug/2014 ∼ Oct/2015)
    Amount of the award: 534,000NTD (sole PI)

13. "GPU Research Center" at Providence University, Taiwan
    Date of the award: 10 years (Aug/2013 ∼ Jul/2023)
    NVIDIA, USA (PI)

14. "Enabling Polyhedral Compiling Optimizations of High Performance Applications In Elastic Cloud Environments"
    Providence University Research Grant
    Date of the award: 8 months (Nov/2013 ∼ Jul/2014) Amount of the award: 180,000NTD (sole PI)

15. "GPU Education Center" at Providence University, Taiwan
    Date of the award: 10 years (Aug/2012 ∼ Jul/2022)

NVIDIA, USA (PI)

16. "Donut Community Cloud: A distributed multi-cloud resource sharing platform"
    National Science Council (NSTC), Taiwan
    Date of the award: 1 year (Aug/2012 ∼ July/2013)
    Amount of the award: 531,000NTD (sole PI)

17. "Measurement and Evaluation for Energy-Performance Application Codes in GPUs"
    National Science Council (NSTC), Taiwan (co-op with FP7 project)
    Date of the award: 1 year (Jun/2011 ∼ May/2012)
    Amount of the award: 455,000NTD (PI, with 6 other co-PIs)

18. "DCloud Middleware"
    Delta Electronics-NTHU Collaborative Research Project, Taiwan
    Date of the award: 3.5 years (Aug/2011 Dec/2014)
    Amount of the award: 3,000,000NTD (co-PI, with Y.-C. Chung and other 9 co-PIs)

19. "Considerations on Performance Improvement and Power Consumption of Virtual Machine Dynamics in PARA-Clouds"
    National Science Council (NSTC), Taiwan
    Date of the award: 1 year (Aug/2011 ∼ Jul/2012)
    Amount of the award: 531,000NTD (PI)

20. "On investigations of Self-Detect Server Virtualization system with proactive Fault-Tolerance Mechanism"
    National Science Council (NSTC), Taiwan
    Date of the award: 1 year (Aug/2010 ∼ Jul/2011)
    Amount of the award: 991,000NTD (PI)

21. "UniCloud: A Distributed Cloud Computing Middleware"
    National Science Council (NSTC), Taiwan
    Date of the award: 1 year (Aug/2010 ∼ Jul/2011)
    Amount of the award: 1,349,000NTD (co-PI)

22. "An Integrated Study on the Cloud Computing Platforms for Scientific Computations and Their Corresponding Computational Technology Deployments"
    National Science Council (NSTC), Taiwan
    Date of the award: 3 years (Aug/2010 ∼ Jul/2013)
    Amount of the award: 13,594,000NTD (co-PI)

23. "A CDA-Conformed Operation Notes Implementation Platform Based on Service-Oriented Architecture"

National Science Council (NSTC), Taiwan
Date of the award: 2 years (Aug/2009 ∼ Jul/2011)
Amount of the award: 874,000NTD (co-PI)

24. "On Novel Techniques using High Performance Computational Methods for Image Analysis of Nailfold Capillary Patterns"
Providence University and Veterans' General Hospital Collaborative Project
Date of the award: 1 year (Jan/2009 ∼ Dec/2009)
Amount of the award: NTD290,000 (PI)

25. "Home-Grid: A Pervasive P2P Based Personal Health-Care Grid System"
National Science Council (NSTC), Taiwan
Date of the award: 3 years (Nov/2008 ∼ Oct/2011)
Amount of the award: 20,171,000NTD (co-PI)

26. "On Multi-Resolution Picture and Video Inpainting in Cluster and Grid Environments"
National Science Council (NSTC), Taiwan
Date of the award: 3 years (Aug/2007 ∼ Jul/2010)
Amount of the award: 1,269,000NTD (PI)

27. "Investigations on High-Performance Application-Level Task Scheduling for Grid Computing Environments"
National Science Council (NSTC), Taiwan
Date of the award: 3 years (Aug/2006 ∼ Jul/2009)
Amount of the award: 1,320,000NTD (PI)

28. "Real-time Nailfold Capillary Microscopy Diagnosis Using Grid Computing Technology"
Providence University and Veterans' General Hospital Collaborative Project
Date of the award: 1 year (Jan/2006 ∼ Dec/2006)
Amount of the award: 350,000NTD (PI)

29. "Medicare Grid − A Grid Based E-health System"
National Science Council (NSTC), Taiwan
Date of the award: 3 years (Nov/2005 ∼ Oct/2008)
Amount of the award: 20,802,000NTD (co-PI)

30. "Using ARM-based Cluster Computing Platform for H.264 Video Encoding"
National Science Council (NSTC), Taiwan
Date of the award: 1 year (Aug/2005 ∼ Jul/2006)
Amount of the award: 262,000NTD (PI)

31. "Taiwan UniGrid − A University Grid In Taiwan"

National Center for High Performance Computing (NCHC), Taiwan
Date of the award: 2 years (Jan/2005 ∼ Dec/2006)
Amount of the award: 4,040,000NTD (co-PI)

32. "On Performance Evaluation and Improvement of Large-Scale Sequence Alignment and Clustering in Cluster and Grid Computing Environments"
National Science Council (NSTC), Taiwan
Date of the award: 2 years (Aug/2004 ∼ Jul/2006)
Amount of the award: 787,100NTD (PI)

33. "Development of Performance Software System for Cluster and Grid Computing Environments (I)"
National Science Council (NSTC), Taiwan
Date of the award: 1 year (Aug/2003 ∼ Jul/2004)
Amount of the award: 410,500NTD (PI)

34. "The 2003 MOE IT Project for Primary and Junior High Schools"
Ministry of Education (MOE), Taiwan
Date of the award: 6 months (Aug/2003 ∼ Jul/2006)
Amount of the award: 186,000NTD (PI)

Invited Presentation

- "Deploying Blockchain in Data Storage Systems and IP Circuit Protection for Enhanced Reliability and Security" , in TrustCom'2020 The 19th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, Guangzhou, China, Dec 29, 2020-Jan 1, 2021.
- "Recent Development of Multi-GPU MapReduce and Trends" , The 12th International Symposium on Information Processing (ISIP 2019), Shanghai, China, October 26-27, 2019
- "Big Data Processing with Multi-GPU MapReduce" , The 11th International Symposium on Information Processing (ISIP 2018), Shanghai, China, September 22-23, 2018
- "Accelerating MapReduce-based Big Data Processing in Multi-GPU Systems" , The 2017 International Workshop on Cyberspace Security (IWCSS 2017), Guangzhou, China, Dec 15, 2017
- "Optimizing MapReduce Framework in Multi-GPU Systems" , 2017 Workshop on Advanced Computing and Networking (2017 先进计算与互联网研讨会), Sun Yat-Sen University (SYSU), Guangzhou, China, Dec 15-16, 2017
- "Technologies for Big Data Processing and Opportunities", Guangdong University of Foreign Studies (GDUFS), Guangzhou, China, Dec 14, 2017
- " MapReduce on Multi —GPU SYSTEMS" , 2016 年湖南科技论坛 "从 AlphaGo 看大数据智能：机会和挑战", Hunan University, China, Aug 18, 2016.

- “On MapReduce Acceleration in Multi-GPU systems” , Xidian University, May 05, 2016.
- “Technologies for Big Data Analytics” , (SYSU), March 08, 2016
- “On Technologies for Big Data Analytics and HPC Applications Processing” , (SYSU), November 20, 2015
- “On Technologies for Big Data Analytics and HPC Applications Processing” , Guangzhou University, November 19, 2015
- ” How to have Your Research Work published “, Chengdu University, July 16, 2015
- “巨量資料時代軟體與計算技術的開發與應用” , Chengdu University, July 10, 2015
- “On Technologies for Big Data Analytics” , Chengdu University, July 07, 2015
- “On Exploiting HPC Architectures for Big Data” , Kyushu Institute of Technology, Japan, February 2-3, 2015
- “Scaling-up Computing for Big Data” , Chengdu University, July 08, 2014
- “Harnessing Computing Resources For Big Data” , Anhui University of Science and Technology, July 03, 2014
- “How to organize and publish your research ?” , Lanzhou Jiaotong University, November 8, 2013.
- “Advances on Fault Tolerance in Cloud Computing” , Lanzhou University, July 19, 2013.
- “On MapReduce Acceleration in Multi-GPU systems: Status and Perspectives” , Chinese Academy of Sciences(中国科学院近代物理研究所), July 15, 2013.
- “Fault Tolerance-based Middleware in Cloud Computing” , Shanghai University, China, May 26, 2012.
- “Cloud Computing: Introduction, Status and Challenges” , Shanghai University, China, August 20, 2011.
- “Cloud Computing” , Hakka Association and Taiwan Chamber of Commerce, Sao Paulo, Brazil, August 2, 2011.
- “High Performance Computing and Applications in Science” , Taichung Veteran’ s General Hospital (TCVGH), Taiwan, May 17, 2007.
- “Programming Next Generation High Performance Computers” , Department of Engineering Science, (NCKU), Taiwan, December 28, 2006.
- “Grid Computing: Trends and Challenges” , Department of Computer Science and Information Engineering, (TKU), Taiwan, May 12, 2006.

- "Grid Applications" , Knowledge Innovation National Grid, (NCHC), December 23, 2005.
- "Cluster and Grid Computing: Introduction, Opportunities and Challenges" , Department of Electrical and Computer Engineering, University of Auckland, New Zealand, June 24, 2005.
- "Cluster and Grid Computing: Opportunities and Challenges" , Department of Engineering Science, (NCKU), Taiwan, May 26, 2005.
- "On Gridbus and Grid Computing" , WGCA' 2004 Workshop on Grid Computing and Applications, (THU), Taiwan, September 30, 2004.
- "Building Cluster Computing Systems using Apple G5" , (NCHC), July 16, 2004.
- "Cluster Computing and Applications using Apple G5 Cluster" , Apple Computers Conference, Taipei, Taiwan, February 11, 2004.
- "Cluster Computing" , Dept. of Computer Science and Engineering, (TTU), Taiwan, November 14, 2003.
- "Introduction to Cluster and Grid Computing" , Dept. of Computer Science and Information Management, (PU), Taiwan, December 31, 2002.

Past Editorship Services

Editor in Chief

- Connection Science, Taylor & Francis, JAN/2020∼FEB/2024
- International Journal of High-Performance Computing and Networking, Inderscience Publishers, JAN/2014∼DEC/2018

Editorial Board

- Journal of Computers, Academy Publishers ISSN 1796-203X, JAN/2017∼MAY/2020

Special Issue/Section Guest Editor

- Nitin Sukhija, Kuan-Ching Li, Electronics "Big Data and Cyber Security: Emerging Approaches and Applications" , MDPI, 2023
- C. Perera, A. V. Vasilakos, G. Calikli, Q. Z. Sheng, Kuan-Ching Li, IEEE Transactions on Industrial Informatics, Vol. 14, Issue 2, 2018
- Albert Cohen, Jenq-Kuen Lee, Roy Ju, Kuan-Ching Li, Journal of Signal Processing Systems, Vol. 80, No. 3, Springer, 2015

- Tadashi Dohi, Kuan-Ching Li, Yufeng Wang, Telecommunication Systems, Springer, vol. 54, No. 1, pp 1-2, Springer, 2013
- Kuan-Ching Li, Jong-Hyuk Park, and Deqing Zou, International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Special Issue on "Service, Security and Data management for Ubiquitous Computing", Vol. 4, No. 6, Inderscience Publishers, 2009
- Christophe Cerin, Jean-Luc Gaudiot, and Kuan-Ching Li, The Journal of Supercomputing, Special Issue on "Secure, Manageable and Controllable Grid Services", Vol. 49, No. 1, Springer, 2009
- Kuan-Ching Li and Yong-Kee Jun, The Journal of Supercomputing, Special Issue on "Technology Deployments in Grid Computing", Vol. 42, No. 3, Springer, 2007
- Ching-Hsien Hsu, Cho-Li Wang, and Kuan-Ching Li, Journal of Information Technology and Applications, Special Issue on "Grid Computing Technologies and Applications", CHU Publishing, 2007
- Kuan-Ching Li and Jean-Luc Gaudiot, International Journal of Computer Applications in Technology, Special Issue on "Applications for High-Performance Systems", Vol. 22, No. 1, Inderscience Publishers, 2005

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Conference Organization and General Chairmanships

Steering Committee

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CSE' 2014 (Chengdu, China), GPC' 2014 (Wuhan, China), CTHPC' 2014 (Hsinchu, Taiwan), FC' 2013 (Gwanju, Korea), GPC'2013 (Seoul, Korea), FC' 2012 (Xining, China), GPC'2012 (Hong Kong, China), CSE'2011 (Dalian, China), GPC'2011 (Oulu, Finland), Greencom'2011 (Chengdu, China), Greencom'2010 (Hanzhou, China), CSE'2010 (Hong Kong, China), FC'2010 (Taichung, Taiwan), CTHPC'2010 (Taipei, Taiwan), GPC'2010 (Hualien, Taiwan), ICUT'2009 (Fukuoka, Japan), CSE'2009 (Vancouver, Canada), GPC'2009 (Geneva, Switzerland), SGS'2008/EuroPar' 2008 (Las Palmas de Gran Canaria, Spain), CSE'2008 (Sao Paulo, Brazil), GPC'2008 (Kunming, China), GPC'2007 (Paris, France), GPC'2006 (Taichung, Taiwan), CTHPC'2006 (Tainan, Taiwan)

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ICADCML'2021(Odisha, India), ICACIE'2021 (Bhubaneswar, India)

General Chair

IEEE GreenCom'2024, (Copenhagen, Denmark), IEEE CyberSciTech'2024 (Boracay, Philippines), IEEE DSPP'2023 (Xian, China), ICMLDE'2023 (Dehradun, India), COCOLE'2023 (NIT Warangal, India), ICADCML'2023 (NIT Rourkela, India), ICACIE'2022 (Odisha, India), ICADCML'2022 (NIT Warangal, India), ADIoT'2021(Darmstadt, Germany), DIKW-RA'2021 (Hainan, China), BlockSys' 2019 (Guangzhou, China), ICCAN'2019 (Bhubaneswar, India), SoMMA'2019 (Trivandrum, Kerala, India), SIRS'2018 (Bangalore, India), ICCIDS' 2018 (Gurgaon, India), EUC' 2017 (Guangzhou, China), FCST' 2015 (Dalian, China), ICPP-EMS' 2015 /ICPP' 2015 (Beijing, China), ICPP-EMS' 2014 (Minnesota, USA), ISI' 2014 (Delhi, India), Umedia'2012 (Xining, China), ICCIT'2010 (Seoul, Korea), ICMIA'2010 (Seoul, Korea), SSDU'2010 / UIC'2010 (Xi' an, China), NSTC'2009 / CIT'2009 (Xiamen, China), CSE'2008 (Sao Paulo, Brazil), SEC'2008 / CSE'08 (Sao Paulo, Brazil), NCUS'2007 / EUC'2007 (Taipei, Taiwan)

Advisory and Honorary Chair

IEEE MCSoC'2025 (Singapore), Blocksys'2025 (Zhuhai, China), Blocksys'2024 (Hanzhou, China), IEEE MCSoC'2024 (Kuala Lumpur, Malaysia), ICDCIT'2024 (Bhubaneswar, India), COCOLE'2023 (NIT Warangal, India), ICACIE'2021 (Bhubaneswar, India), CBDCom'2020 (Calgary, Canada), ICCIDS' 2019 (Gurgaon, India), EUC' 2018 (Bucharest, Romania), ICCIDS' 2018 (Gurgaon, India), ICACIE'2019 (Bhubaneswar, India), ICCAN'2019 (Bhubaneswar, India), ICACIE'2018 (Bhubaneswar, India), ICCIDS' 2018 (Gurgaon, India), ICACIE'2017 (Bhubaneswar, India), INCoS' 2015 (Taipei, Taiwan), IMMM' 2014 (Paris, France), NSS' 2014 (Xian, China), ICPCA' 2012 (Istanbul, Turkey), IMMM' 2012 (Venice, Italy)„ ICIPM'2011 (Jeju Island, Korea), ICEI'2011 (Jeju Island, Korea), ICPCA'2011 (Port Elizabeth), IMMM'2011 (Bournemouth, UK), ICPCA'2010 Maribor, Slovenia), NCM'2010 (Seoul, Korea), IDC'2010 (Seoul, Korea), IMS'2010 (Seoul, Korea), ICCIT'2010 (Seoul, Korea), ICPCA'2009 (Taipei, Taiwan), SSDU'2009 / GPC'2009 (Geneva, Switzerland), SSDU'2008 / GPC' 2008 (Kunming, China)

International Liaison Chair

DASC'2019 (Fukuoka, Japan), IEEE MCSoC' 2018 (Hanoi, Vietnam), IEEE MCSoC' 2016 (Lyon, France), IEEE AINA' 2015 (Gwanju, Korea), IEEE CISIS'2015 (Blumenau, Brazil), IEEE'MCSoC' 2015 (Turin, Italy), 3PGCIC'2015 (Krakow, Poland), IEEE ATC' 2014 (Bali, Indonesia), IEEE MCSoC' 2014 (Aizu, Japan), 3PGCIC' 2014 (Guangzhou, China), ISPA'2011 (Busan, Korea)

Program Committee co-Chair/Track co-Chair

IEEE Ubisec'2024 (Changsha, China), IEEE ISPA'2023 (Wuhan, China), SIRS' 23 (Bangalore, India), ISI'2022 (Trivandrum, Kerala, India), ICSPN'2020 (Jaipur, India), CCSNA' 2018 (with INFOCOM' 2018) (Honolulu,USA), Doctoral Consortium@BIS'2018, InterIoT BigData' 2016 (in conjunction with ICPP' 2016), ISPA' 2016 (Tianjin, China), EUC' 2015 (Porto, Portugal), APSCC' 2014, PICom' 2014, AINA' 2014, SIRS' 2014, ICPP-EMS' 2013, ISI' 2013, EUC' 2013, HPCC' 2013, BDCloud' 2015 (Dalian, China), EUC' 2015 (Porto, Portugal), CCSNA'2015/IEEE Globecom (San Diego, USA), APSCC' 2014(Fuzhou, China), PICom' 2014 (Dalian, China), AINA' 2014 (Vancouver, Canada), SIRS' 2014 (Thiruvananthapuram, India), HPCC' 2013 (Zhangjiajie, China), EUC' 2013 (Zhangjiajie, China), CUTE' 2012 (Hong Kong, China), WCC' 2011 (Jeju, Korea), QMCC' 2011 (Singapore), U-Media'2011 (Sao Paulo, Brazil), MENS'2010 / ATC'2010 (Xi'an, China), U-media'2009 (Taipei, Taiwan), MANS'2009 / ATC'2009 (Brisbane, Australia), SecUbiq'2008 / EUC' 2008 (Shanghai, China), APSCC'2008 (Yilan, Taiwan), MamSOE'2008 / APSCC'2008 (Yilan, Taiwan), AINA'2008 (Okinawa, Japan), TRUST'2007 / EUC'2007 (Taipei, Taiwan), MTPP'2007 (Pereslavl-Zalessky, Russia), SSDU'2007 / PAKDD'2007 (Nanjing, China), GPC'2007 (Paris, France)

Publication Chair

SBAC-PAD'2024 (Hawaii), ARC' 2016 (Rio de Janeiro, Brazil), PRDC' 2015 (Zhangjiajie, China), SBAC-PAD' 2015 (Brazil), ICA3PP' 2015 (Zhangjiajie, China), ACSAC'2008 (Hsinchu, Taiwan), ARC' 2016 (Rio de Janeiro, Brazil), PRDC' 2015 (Zhangjiajie, China), SBAC-PAD' 2015 (Brazil), ICA3PP' 2015 (Zhangjiajie, China), SBAC-PAD'2014 (Paris, France)

Workshop Co-Chair

Cloudcom' 2012 (Taipei, Taiwan)

Program Committee

ACM/SIGAPP SAC'2019 (Limassol, Cyprus) COMPSAC' 2015 (Taiwan), PDSEC' 2015/ IPDPS' 2015 (Hyderabad, India), CoHeB' 2015/CTS (Atlanta, USA), Service Computation' 2015 (Nice, France), Cloud Computing' 2015 (Nice, France), ISTA' 15 (Kochi, India), FGCT' 2014(Dublin, Ireland), HPCC' 2014 (Paris, France), GSC' 2014 (Delhi, India), MIC-Computing' 2014 (Milan, Italy), AMT' 2014 (Warsaw, Poland), BIH' 2014 (Warsaw, Poland), IIKI' 2014 (Beijing, China), ICS' 2014 (Taichung, Taiwan), SC2' 2014 (Beijing, China), CoHeB' 2014/CTS' 2014 (Minnesota, USA), CloudCom' 2014(Singapore), ICSNC 2014 (Nice, France), CLOSER' 2014 (Barcelona, Spain), NSSSE' 2014 (Kinmen, Taiwan), EMERGING' 2014 (Rome, Italy), IVIC' 2013(Kuala Lumpur, Malaysia), NCS'

2013(Taiwan), CloudCom’2013 (Bristol, UK), VECPAR’2012 (Kobe, Japan), TrustCom’2012 (Liverpool, UK), CECNet’2012 (Three Gorges, Hubei, China), CLOSER’2012 (Porto, Portugal), HiPC’2011 (Bangalore, India), PDCS’2011 (Dallas, USA), CGC’2011 (Sydney Australia), IoTPS’11 (Mannheim, Germany), NPC’2011 (Changsha, China), ICMIA’2011 (Macau, China), ITCS’2011 (Gwangju, Korea), ICPP’2011 (Taipei, Taiwan), AMT’2011 (Lanzhou, China), BI’2011 (Lanzhou, China), CIT’2011 (Pafos, Cyprus), ICSOFT’2011 (Seville, Spain), CLOSER’2011 (Netherlands), NCM’2011 (Gyeongju, Korea), SC2’2011 (Taipei, Taiwan), PEWiN’2010/MSN’2010 (Hangzhou, China), CACS’2010 (Singapore), Applied Computing’2010 (Timisoara, Romania), NPC’2010 (Zhengzhou, China), ISPA’2010 (Taipei, Taiwan), IC3’2010 (Noida, India), PNSIOT’2010 (Chongqing, China), CDES’10 /WORLDCOMP’10 (Las Vegas, USA), CSC’10 /WORLDCOMP’10 (Las Vegas, USA), EEE’10 /WORLDCOMP’10 (Las Vegas, USA), ESA’10 /WORLDCOMP’10 (Las Vegas, USA), FCS’10 /WORLDCOMP’10 (Las Vegas, USA), FECS’10 /WORLDCOMP’10 (Las Vegas, USA), GCA’10 /WORLDCOMP’10 (Las Vegas, USA), ICOMP’10 /WORLDCOMP’10 (Las Vegas, USA), MSV’10 /WORLDCOMP’10 (Las Vegas, USA), PDPTA’10 /WORLDCOMP’10 (Las Vegas, USA), CIT’2010 (Bradford, UK), VECPAR’2010 (Berkeley, USA), MC’2010 暨國科會行動計算計畫研究成果發表會 (Taichung, Taiwan), HPCTA’2010 (Busan, Korea), MTPP’2010 (Vladivostok, Russia), CCGrid’2010 (Melbourne, Australia), LCI’2010 (Pennsylvania, USA), WiCON’2010 (Singapore), HiPC’2009 (Cochin, India), WoGTA’2009 (Taitung, Taiwan), GridCAT’2009 /I-SPAN’2009 (Kaohsiung, Taiwan), CSA’2009 (Jeju, Korea), ICPADS’2009 (Shenzhen, China), PD’2009 /NCS’2009 (Taipei, Taiwan), TANET’2009 amp; Global IPv6 Summit in Taiwan (臺灣網際網路研討會暨全球 IPv6 高峰會議) (Changhua, Taiwan), NPC’2009 (Gold Coast, Australia), CIT’2009 (Xiamen, China), PaCT’2009 (Novosibirsk, Russia), STMC-Grid’2009/Euro-Par’2009 (Delft, The Netherlands), IC3’2009 (Noida, India), ICSOFT’2009 (Sofia, Bulgaria), HPCC’2009 (Seoul, Korea), ICA3PP’2009 (Taipei, Taiwan), CTHPC2008 (Hsinchu, Taiwan), CCGrid’2009 (Shanghai, China), CSIE’2009 (Los Angeles/Anaheim, USA), MCPC’2009 (Leipzig, Germany), LCI’2009 (Boulder, Colorado, USA), HPCAsia’2009 (Kaohsiung, Taiwan), HiPC’2008 (Bangalore, India), EUC’2008 (Shanghai, China), PDCS’2008 (Orlando, USA), SBAC-PAD’2008 (Campo Grande, Brazil), NPC’2008 (Shanghai, China), NBiS’08 (Turin, Italy), ICWL’2008 (Jinhua, China), NIMC’08 /SIWN’2008 (Glasgow, UK), MSEAT’2008/U-Media’2008 (Lanzhou, China), CIT’2008 (Sydney, Australia), ICSOFT’2008 (Porto, Portugal), VECPAR’2008 (Toulouse, France), ICA3PP’2008 (Cyprus), CTHPC2008 (Taipei, Taiwan), GPC’2008 (Kunming, China), LCI’2008 (Urbana, Illinois, USA), AC’2008 (Algarve, Portugal), AINA’2008 (Okinawa, Japan), EUC’2007 (Taipei, Taiwan), APSCC’2007 (Tsukuba, Japan), PDCS’2007 (Cambridge, USA), TENCON’2007 (Taipei, Taiwan), SBAC-PAD’2007 (Gramado, Brazil), NPC’2007 (Dalian, China), PaCT’2007 (Pereslavl-Zalessky, Russia), NBiS’2007 (Regensburg, Germany), ChinaCOM’2007 (Shanghai, China), CODS’2007 (Chengdu, China), ICSOFT’2007 (Barcelona, Spain), ATC’2007 (Hong Kong, China), UIC’2007 (Hong Kong, China), HPCNCS’2007 (Orlando, FL, USA), ICA3PP’2007 (Hangzhou, China), LCI’2007 (South Lake Tahoe, California, USA), CCGrid’2007 (Rio de Janeiro, Brazil), IPDPS’2007 (Long Beach, California, USA), CTHPC’2007 (Taichung, Taiwan), WoGTA’2006 (Hsinchu, Taiwan), ISPA’2006 (Sorrento, Italy),

PDCS'2006 (Dallas, USA), ICHIT'2006 (Cheju Island, Korea), Chinacom'2006 (Beijing, China), SBAC-PAD'2006 (Ouro Preto, Brazil), CIT'2006 (Seoul, Korea), NBiS'2006 /DEXA'2006 (Krakow, Poland), ATC'2006 (Wuhan and Three Gorges, China), UIC'2006 (Wuhan and Three Gorges, China), ICSOFT'2006 (Setubal, Portugal), TRUST'2006 /EUC'2006 (Seoul, Korea), VECPAR'2006 (Rio de Janeiro, Brazil), MNSA'2006 /ICDCS'2006 (Lisbon, Portugal), P2P-HPCS'2006 /ICCS'2006 (Reading, UK), GPC'2006 (Taichung, Taiwan), AINA'2006 (Austria), AC'2006 (San Sebastian, Spain), PDPTA'2006 (Las Vegas, Nevada, USA), CSC'2006 (Las Vegas, Nevada, USA), GCA'2006 (Las Vegas, Nevada, USA), SAM'2006 (Las Vegas, Nevada, USA), MLMTA'2006 (Las Vegas, Nevada, USA), ICOMP'2006 (Las Vegas, Nevada, USA), SWWS'2006 (Las Vegas, Nevada, USA), CDES'2006 (Las Vegas, Nevada, USA), RTCOMP'2006 (Las Vegas, Nevada, USA), ESA'2006 (Las Vegas, Nevada, USA), PSC'2006 (Las Vegas, Nevada, USA), IPCV'2006 (Las Vegas, Nevada, USA), MSV'2006 (Las Vegas, Nevada, USA), FECS'2006 (Las Vegas, Nevada, USA), FCS'2006 (Las Vegas, Nevada, USA), EEE'2006 (Las Vegas, Nevada, USA), IKE'2006 (Las Vegas, Nevada, USA), BIOCOMP'2006 (Las Vegas, Nevada, USA), WoGTA'2005 (Hualien, Taiwan), NPC'2005 (Beijing, China), SBAC-PAD'2005 (Rio de Janeiro, Brazil), PDCS'2005 (Phoenix, Arizona, USA), ICITA'2005 (Sydney, Australia), CTHPC'2005 (Taichung, Taiwan), PDPTA'2005 (Las Vegas, Nevada, USA), PSC'2005 (Las Vegas, Nevada, USA), CIC'05 (Las Vegas, Nevada, USA), ICAI'2005 (Las Vegas, Nevada, USA), SERP'2005 (Las Vegas, Nevada, USA), ICOMP'2005 (Las Vegas, Nevada, USA), CDES'2005 (Las Vegas, Nevada, USA), MSV'2005 (Las Vegas, Nevada, USA), FCS'2005 (Las Vegas, Nevada, USA), CISST'2005 (Las Vegas, Nevada, USA), ISWS'2005 (Las Vegas, Nevada, USA), PCC'2005 (Las Vegas, Nevada, USA), ESA'2005 (Las Vegas, Nevada, USA), GCA'2005 (Las Vegas, Nevada, USA), EEE'2005 (Las Vegas, Nevada, USA), HCI'2005 (Las Vegas, Nevada, USA), CSC'2005 (Las Vegas, Nevada, USA), IKE'2005 (Las Vegas, Nevada, USA), METMBS'2005 (Las Vegas, Nevada, USA), AMCS'2005 (Las Vegas, Nevada, USA), FECS'2005 (Las Vegas, Nevada, USA), ICS'2004 (Taipei, Taiwan), WoGTA'2004 (Hsinchu, Taiwan), PDCS'2004 (MIT/ Cambridge, USA), SBAC-PAD'2004 (Foz do Iguacu, Brazil), PDPTA'04 (Las Vegas, Nevada, USA), CISST'04 (Las Vegas, Nevada, USA), SERP'04 (Las Vegas, Nevada, USA), IKE'04 (Las Vegas, Nevada, USA), IC'04 (Las Vegas, Nevada, USA), METMBS'04 (Las Vegas, Nevada, USA), MLMTA'04 (Las Vegas, Nevada, USA), CIC'04 (Las Vegas, Nevada, USA), VLSI'04 (Las Vegas, Nevada, USA), CIT'2003 (Bhubaneswar, India), ICPP'2003 (Kaohsiung, Taiwan), CST'2003 (Cancun, Mexico), PDCS'2003 (Marina Del Rey, California, USA), PDPTA'2003 (Las Vegas, Nevada, USA), CISST'2003 (Las Vegas, Nevada, USA), IC'2003 (Las Vegas, Nevada, USA), ESA'2003 (Las Vegas, Nevada, USA), MLMTA'2003 (Las Vegas, Nevada, USA), METMBS'2003 (Las Vegas, Nevada, USA), CIC'2003 (Las Vegas, Nevada, USA), ERSA'2003 (Las Vegas, Nevada, USA), VLSI'2003 (Las Vegas, Nevada, USA), IKE'2003 (Las Vegas, Nevada, USA), SERP'2003 (Las Vegas, Nevada, USA), PDPTA'2002 (Las Vegas, Nevada, USA), METMBS'2002 (Las Vegas, Nevada, USA), CISST'2002 (Las Vegas, Nevada, USA), IC'2002 (Las Vegas, Nevada, USA), CIC'2002 (Las Vegas, Nevada, USA), ERSA'2002 (Las Vegas, Nevada, USA), VLSI'2002 (Las Vegas, Nevada, USA), IKE'2002 (Las Vegas, Nevada, USA), CMSRA'2002 (Las Vegas, Nevada, USA), ICMLA'2002 (Las Vegas, Nevada, USA), ICWN'2002 (Las Vegas, Nevada, USA), PDPTA'2001

(Las Vegas, Nevada, USA), IC'2001 (Las Vegas, Nevada, USA), METMBS'2001 (Las Vegas, Nevada, USA), PDPTA'2000 (Las Vegas, Nevada, USA)