



## Christopher C. Yang

**Department of Systems Engineering and Engineering Management**  
**The Chinese University of Hong Kong**  
**Shatin, Hong Kong SAR**  
**Office : (+852) 2609 8239**  
**Fax : (+852) 2603 5505**  
**Home : (+852) 2194 0880**  
**Email : yang@se.cuhk.edu.hk**  
**URL :<http://www.se.cuhk.edu.hk/~yang/>**

### Work Experience

**Department of Systems Engineering and Engineering Management**  
**The Chinese University of Hong Kong**

*January 2001 - present: Associate Professor (tenured)*

*January 2000 – December 2000: Assistant Professor*

*January 2000 – present: Director of Digital Library Laboratory*

**Department of Computer Science and Information Systems**  
**The University of Hong Kong**

*September 1997 – December 1999: Assistant Professor*

*September 1997 – December 1999: Co-director of Digital Library Research Laboratory*

*January 1998 – December 1999: Associate Director of Authorized Academic Java<sup>SM</sup> Campus<sup>SM</sup> (AAJC), sponsored by Sun Microsystems*

**Artificial Intelligence Laboratory,**

Department of Management and Information Systems, the University of Arizona

*September 1995 - September 1997: Research Scientist*

**Intelligent Systems Laboratory,**

Department of Electrical and Computer Engineering, the University of Arizona

*May 1995 - September 1997: Research Associate*

*May 1992 - May 1995: Research Assistant*

### Education

**Ph.D., Electrical and Computer Engineering**, the University of Arizona, Tucson, May, 1997.

**M.S., Electrical and Computer Engineering**, the University of Arizona, Tucson, May, 1992.

**B.S., Electrical and Computer Engineering**, the University of Arizona, Tucson, August, 1990.

### Research Interests

Cross-Lingual Information Retrieval

Information Visualization

Digital Library

Knowledge Management

Web Search and Mining

Automatic Summarization

Electronic Commerce / Mobile Commerce

Intelligence and Security Informatics

## Publications

### Journal Papers

1. C. C. Yang and F. L. Wang, "Hierarchical Summarization of Large Documents," *Journal of the American Society for Information Science and Technology*, accepted for publication.
2. W. Lam, C. C. Yang, and F. Menczer, "Mining Web Resources for Enhancing Information Retrieval," *Journal of the American Society for Information Science and Technology*, accepted for publication.
3. F. L. Wang and C. C. Yang, "Mining Web Data for Chinese Segmentation," *Journal of the American Society for Information Science and Technology*, conditionally accepted for publication.
4. X. Shi and C. C. Yang, "Web Usage Mining for Query Expansion," *Journal of the American Society for Information Science and Technology*, accepted for publication.
5. C. Wei, Y. Lin, and C. C. Yang, "Cross-lingual Text Categorization: Conquering Language Boundaries in Globalized Environments," *Journal of the American Society for Information Science and Technology*, conditionally accepted for publication.
6. C. C. Yang, C. Wei, and H. Chen, "Multilingual Knowledge Management," *Decision Support Systems*, accepted for publication.
7. C. Wei, C. C. Yang, and C. Lin, "A Latent Semantic Indexing Based Approach to Multilingual Document Clustering," *Decision Support Systems*, accepted for publication.
8. C. C. Yang, C. Wei, and K. W. Li, "Cross-lingual Thesaurus for Multilingual Knowledge Management," *Decision Support Systems*, accepted for publication.
9. C. C. Yang and K. W. Li, "Associate Constraint Network Approach to Extract Multilingual Information for Crime Analysis," *Decision Support Systems*, accepted for publication.
10. M. Chau, X. Fang, and C. C. Yang, "Web Searching in Chinese: A Study of a Search Engine in Hong Kong," *Journal of the American Society for Information Science and Technology*, vol.58, no.7, 2007, pp.1044-1054.
11. C. C. Yang, and F. L. Wang, "An Information Delivery System with Automatic Summarization for Mobile Commerce," *Decision Support Systems*, vol.43, no.1, 2007, pp.46-61.
12. Y. C. Wong, J. Lin, C. C. Yang, and C. Wei, "Analyzing Online Consumer Reviews for Comparison Shopping and Marketing Intelligence," *Sun Yat-Sen Management Review*, accepted for publication.
13. C. C. Yang and W. Lam, "Multilingual Information Systems," *Journal of the American Society for Information Science and Technology*, vol.57, no.5, 2006, pp.629-631.
14. F. L. Wang and C. C. Yang, "The Impact Analysis of Language Difference on Automatic Multilingual Text Summarization System," *Journal of the American Society for Information Science and Technology*, vol.57, no.5, 2006, pp.632-644.
15. K. W. Li and C. C. Yang, "Conceptual Analysis of Parallel Corpus Collected from the Web," *Journal of the American Society for Information Science and Technology*, vol.57, no.5, 2006, pp.684-696.
16. C. C. Yang and K. W. Li, "Heuristic Method Based on Statistical Approach for Chinese Text Segmentation," *Journal of the American Society for Information Science and Technology*, vol.56, no.12, October, 2005.

17. C. C. Yang and S. H. Kwok, "Changes of Queries in Gnutella Peer-to-peer Networks," *Journal of Information Science*, vol.31, no.2, April, 2005, pp.124-135.
18. K. W. Li and C. C. Yang, "Automatic Cross-Lingual Thesaurus Generated from the Hong Kong SAR Police Department Web Corpus for Crime Analysis," *Journal of the American Society for Information Science and Technology*, vol.56, no.3, February, 2005, pp.272-282.
19. C. C. Yang and K. W. Li, "Building Parallel Corpora by Automatic Title Alignment using Length-based and Text-based Approaches," *Information Processing & Management*, vol.40, no.6, November, 2004, pp.939-955.
20. C. C. Yang and A. Chung, "Intelligent Infomediary for Web Financial Information," *Decision Support Systems*, vol.38, no.1, October, 2004, pp.65-80.
21. S. H. Kwok, C. C. Yang, K. Y. Tam, and J. Wong, "SDMI-Based Rights Management Systems," *Decision Support Systems*, vol.38, no.1, October, 2004, pp.33-46.
22. S. H. Kwok and C. C. Yang, "Searching the Peer-to-Peer Networks: The Community and Their Queries," *Journal of the American Society for Information Science and Technology, Special Topic Issue on Research on Information Seeking*, vol.55, no.9, 2004, pp.783-793.
23. C. C. Yang, "Content Based Image Retrieval: A Comparison between Query by Example and Image Browsing Map Approaches," *Journal of Information Science*, vol.30, no.3, 2004, pp.257-270.
24. S. H. Kwok, C. C. Yang, and K. Y. Tam, "Intellectual Property Protection for Electronic Commerce Applications," *Journal of Electronic Commerce Research*, vol.5, no.1, 2004, pp.1-13.
25. S. H. Kwok and C. C. Yang, "Copyright Protection Schemes for Online Media Distribution E-Services," *International Journal of Electronic Commerce*, vol.8, no.2, 2003-4, pp.119-137.
26. C. C. Yang and V. N. A. Naikan, "Optimum Tolerance Design for Complex Assemblies using Hierarchical Interval Constraint Networks," *Computers and Industrial Engineering*, vol.45, no.3, October, 2003, pp.511-543.
27. C. C. Yang and V. N. A. Naikan, "Optimum Tolerance Design using Constraint Networks and Relative Sensitivity Ration Algorithm," *Applied Artificial Intelligence*, vol.17, no.7, August, 2003, pp.631-660.
28. C. C. Yang and K. W. Li, "Automatic Construction of English/Chinese Parallel Corpus," *Journal of the American Society of Information Science and Technology*, vol.54, no.8, June, 2003, pp.730-742.
29. C. C. Yang and V.N.A. Naikan, "Optimum Design of Component Tolerance of Assemblies using Constraint Networks," *International Journal of Production Economics*, vol.84, no.2, May, 2003, pp.149-163.
30. C. C. Yang and J. Luk, "Automatic Generation of English/Chinese Thesaurus Based on a Parallel Corpus in Law," *Journal of the American Society for Information Science and Technology, Special Topic Issue on Web Retrieval and Mining: A Machine Learning Perspective*, vol.54, no.7, May, 2003, pp.671-682.
31. C. C. Yang, H. Chen, and K. Hong, "Visualization of Large Category Map for Internet Browsing," *Decision Support Systems, Special Issue on Web Retrieval and Mining*, vol.35, no.1, April, 2003, pp.89-102.
32. C. C. Yang and S. H. Kwok, "Efficient Gamut Clipping for Color Image Processing using LHS and YIQ," *Optical Engineering*, vol.42, no.3, pp.701-711, 2003.

33. C. C. Yang, and F. W. Ciarallo, "Handling Uncertainties of Robot Manipulators and Active Vision by Constraint Propagation," *Journal of Robotic Systems*, vol.19, no.9, September, 2002, pp.427-441.
34. C. C. Yang and A. Chung, "A Personal Agent for Chinese Web Financial News on the Web," *Journal of the American Society for Information Science and Technology, Special Issue on Web Search*, vol.53, no.2, January 2002, pp.186-196.
35. C. C. Yang and F. W. Ciarallo, "Optimized Sensor Placement for Active Visual Inspection," *Journal of Robotic Systems*, vol.18, no.1, January, 2001, pp.1-15.
36. S. Yung, C. C. Yang, and J. Yen, "Applying Multi-Agent Technology to Supply Chain Management," *Journal of Electronic Commerce Research, Special Issue on Intelligent Agents in E-Commerce*, vol.1, no.4, November, 2000, pp.119-132.
37. C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Interval Constraint Networks for Tolerance Analysis and Synthesis," *Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Special Issue on AI in Manufacturing: State of the Art*, vol.14, no.4, September, 2000, pp.271-287.
38. C. C. Yang, J. Yen, and H. Chen, "Intelligent Internet Searching Agent Based on Hybrid Simulated Annealing," *Decision Support Systems, Special Issue on Intelligent Agents and Digital Community*, vol.28, no.3, May, 2000, pp.269-277.
39. C. C. Yang, J. W. K. Luk, S. Yung, and J. Yen, "Combination and Boundary Detection Approaches on Chinese Indexing," *Journal of the American Society for Information Science, Special Topics issue on Digital Libraries*, vol.51, no.4, March, 2000, pp.340-351.
40. H. Chen, J. Yen, and C. C. Yang, "International Activities: Digital Library Research in Asia," *IEEE Computer, Special Issue on Digital Libraries*, vol.32, no.2, February, 1999, pp.48-49.
41. C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Modeling Errors for Dimensional Inspection Using Active Vision," *Robotics and Computer-Integrated Manufacturing, vol.15, no. 1*, 1999, pp.23-37.
42. C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Analysis of Errors and Planning Accuracy on Dimensional Measurement in Active Vision Inspection," *IEEE Trans. on Robotics and Automation*, vol.14, no.3, June, 1998, pp.476-487.
43. H. Chen, Y. Chung, M. Ramsey, and C. C. Yang, "A Smart Itsy Bitsy Spider for the Web," *Journal of the American Society for Information Science, Special Issue on Artificial Intelligence Techniques for Emerging Information Systems Applications*, vol.49, no.7, 15 May 1998, pp.604-18.
44. H. Chen, Y. Chung, M. Ramsey, and C. C. Yang, "An Intelligent Personal Spider (Agent) for Dynamic Internet/Intranet Searching," *Decision Support Systems*, vol.23, no.1, May, 1998, pp.41-58.
45. C. C. Yang, M. M. Marefat, and E. J. Johnson, "Entity-based Aspect Graphs: Making Viewer-Centered Representations More Efficient," *Pattern Recognition Letters*, vol.19, no.3-4, March 1998, pp.265-77.
46. M. M. Marefat, L. Wu, and C. C. Yang, "Purposeful Gazing for Active Vision I: Vergence Error Extraction," *Pattern Recognition*, vol.30, no.11, November, 1997, pp.1829-1842.
47. M. M. Marefat, L. Wu, and C. C. Yang, "Purposeful Gazing for Active Vision II: Vergence Control," *Pattern Recognition*, vol.30, no.11, November, 1997, pp.1843-1853.
48. C. C. Yang and J. J. Rodriguez, "Efficient Luminance and Saturation Processing Techniques for

Color Images,” *Journal of Visual Communication and Image Representation*, vol.8, no.3, September, 1997, pp.263-277.

49. J. J. Rodriguez and C. C. Yang, “High Resolution Histogram Modification of Color Images,” *Graphical Models and Image Processing (GMIP)*, vol.57, no.5, September, 1995, pp.432-440.
50. C. C. Yang and M. M. Marefat, “Object-Oriented Concepts and Mechanisms for Feature-based Computer Integrated Inspection,” *Advances on Engineering Software*, vol.20, no.2/3, 1994, pp.157-179.
51. J. J. Rodriguez and C. C. Yang, “Effects of Luminance Quantization Error on Color Image Processing,” *IEEE Trans. on Image Processing*, vol.3, no.6, November, 1994, pp.850-854.

### **Conference Proceedings**

- 1 C. C. Yang and J. Lin, “Integrating Web Directories by Learning their Structures,” *Proceedings of the International World Wide Web Conference (WWW’07)*, Banff, Alberta, Canada, May 8-12, 2007.
- 2 N. Liu and C. C. Yang, “A Link Classification based Approach to Website Topic Hierarchy Generation,” *Proceedings of the International World Wide Web Conference (WWW’07)*, Banff, Alberta, Canada, May 8-12, 2007.
- 3 C. C. Yang and T. D. Ng, “Terrorism and Crime Related Weblog Social Network: Link, Content Analysis and Information Visualization,” *Proceedings of the IEEE International Conference on Intelligence and Security Informatics*, New Brunswick, New Jersey, May 23-24, 2007.
- 4 C. C. Yang, T. D. Ng, J. Wang, C. Wei, and H. Chen, “Analyzing and Visualizing Gray Web Forum Structure,” *Proceedings of the Pacific Asia Workshop on Intelligence and Security Informatics*, Chengdu, China, April 11-12, 2007.
- 5 J. Lin, C. C. Yang, and C. Wei, “Analyzing On-line Consumer Reviews,” *Proceedings of the Workshop on e-Business(WeB2006)*, Milwaukee, December 9, 2006.
- 6 C. Wei, Y. Chen, C. Yang, C. C. Yang, “A Semantic-Based Approach to Support Product Feature Extraction from Customer Reviews,” *Proceedings of the Workshop on e-Business(WeB2006)*, Milwaukee, December 9, 2006.
- 7 M. Chau, X. Fang, and C. C. Yang, “Analysis of the Bilingual Queries in a Chinese Web Search Engine,” *Proceedings of the Workshop on e-Business(WeB2006)*, Milwaukee, December 9, 2006.
- 8 C. C. Yang and N. Liu, “Measuring Similarity of Semi-structured Documents with Context Weights,” *Proceedings of the 29<sup>th</sup> Annual International ACM SIGIR Conference: Research and Development in Information Retrieval (SIGIR)*, Seattle, USA, August 6 – 11, 2006.
- 9 F. L. Wang and C. C. Yang, “Impact of Document Structure to Hierarchical Summarization,” *Proceedings of the International Conference on Asia Digital Libraries*, Kyoto, Japan, November 27-30, 2006.
- 10 C. C. Yang, C. Wei, and K. W. Li, “Using Associate Constraint Network with Forward Evaluation to Overcome Cross-lingual Semantic Interoperability Challenge for Crime Information Extraction,” *Proceedings of IEEE International Conference on Systems, Man, and Cybernetics*, Taipei, Taiwan, October 8-11, 2006.
- 11 C. C. Yang and R. Wong, “Measuring Success Factors of E-Commerce Infomediary,” *Proceedings of the Pacific Asia Conference on Information Systems*, Kuala Lumpur, Malaysia, July 6-9, 2006.

- 12 C. C. Yang and X. Shi, "Discovering Event Evolution Graphs from Newswires," *Proceedings of the International World Wide Web Conference (WWW'06)*, Edinburgh, U.K., May 23-26, 2006.
- 13 X. Shi and C. C. Yang, "Mining Related Queries from Search Engines Query Logs," *Proceedings of the International World Wide Web Conference (WWW'06)*, Edinburgh, U.K., May 23-26, 2006.
- 14 C. C. Yang, N. Liu, and M. Sageman, "Analyzing the Terrorist Social Networks with Visualization Tools," *Proceedings of the IEEE International Conference on Intelligence and Security Informatics*, San Diego, CA, US, May 23 – 24, 2006.
- 15 C. C. Yang, X. Shi, and C. Wei, "Tracing the Event Evolution of Terror Attacks from On-line News," *Proceedings of the IEEE International Conference on Intelligence and Security Informatics*, San Diego, CA, US, May 23 – 24, 2006.
- 16 F. L. Wang, C. C. Yang, and X. Shi, "Multi-Document Summarization for Terrorism Information Extraction," *Proceedings of the IEEE International Conference on Intelligence and Security Informatics*, San Diego, CA, US, May 23 – 24, 2006.
- 17 C. C. Yang and X. Shi, "Tracking the Evolution of News Events," *Proceedings of the Workshop on the Science of the Artificial*, Taiwan, December, 2005.
- 18 R. Wong and C. C. Yang, "Collaborative Infomediary for Financial News," *Proceeding of the Workshop on e-Business (WEB2005)*, Las Vegas, December 10, 2005.
- 19 N. Liu and C. C. Yang, "Automatic Extraction of Web Site's Content Structure from Link Structure," *Proceedings of the ACM 14th Conference on Information and Knowledge Management*, Bremen, Germany, October 31 - November 5, 2005.
- 20 C. C. Yang and K. Y. Chan, "Retrieving Multimedia Web Objects Based on Page Rank Algorithm," *Proceedings of the International World Wide Web Conference*, Chiba, Japan, May 10-14, 2005.
- 21 N. Liu and C. C. Yang, "Mining Web Site's Topic Hierarchy," *Proceedings of the International World Wide Web Conference*, Chiba, Japan, May 10-14, 2005.
- 22 C. C. Yang, "Measuring Similarity between XML Documents," *Proceedings of the Workshop on e-Business (WEB 2004)*, Washington D. C., USA, December 11-12, 2004.
- 23 F. L. Wang and C. C. Yang, "Relevance Feedback Model for Fractal Summarization," *Proceedings of the International Conference on Asia Digital Libraries*, Shanghai, China, December 13-17, 2004.
- 24 F. L. Wang and C. C. Yang, "The Impact of Language Difference on Automatic Document Summarization," presented at *the International Conference on Asia Digital Libraries*, Shanghai, China, December 13-17, 2004.
- 25 S. Zhu, C. C. Yang, and W. Lam, "CatRelate: A New Hierarchical Document Category Integration Algorithm by Learning Category Relationships," *Proceedings of the International Conference on Asia Digital Libraries*, Shanghai, China, December 13-17, 2004.
- 26 C. C. Yang and K. W. Li, "Cross-lingual Semantics for Crime Analysis using Associate Constraint Network," *Proceedings for the Second NSF/NIJ Symposium on Intelligence and Security Informatics (ISI2004)*, Tucson, June 10-11, 2004.
- 27 C. C. Yang and K. W. Li, "Error Analysis of Chinese Text Segmentation using Statistical Approach," *Proceedings of ACM/IEEE Joint Conference on Digital Libraries*, June 7-11, Tucson, Arizona, U.S.A., 2004.

- 28 V. N. A. Naikan and C. C. Yang, "Cost Optimal Allocation and Rationing in Supply Chains," *Proceedings of the 33<sup>rd</sup> International Conference on Computers and Industrial Engineering*, Jeju, Korea, March 25-27, 2004.
- 29 S. H. Kwok and C. C. Yang, "P2P Information Behavior in Contrast with WWW Information Behavior," *Proceedings of the Workshop on e-Business (WEB2003) in ICIS 2003*, Seattle, WA, December 13-14, 2003.
- 30 C. C. Yang and K. W. Li, "Segmenting Chinese Unknown Words by Heuristic Method," *Proceedings of the International Conference on Asia Digital Libraries*, Malaysia, December 8 – 11, 2003.
- 31 F. L. Wang and C. C. Yang, "Automatic Summarization of Chinese and English Parallel Documents," *Proceedings of the International Conference on Asia Digital Libraries*, Malaysia, December 8 – 11, 2003.
- 32 S. Tang, J. Yen, and C. C. Yang, "Multi-Document Summarization Based on Concept Space," *Proceedings of the International Conference on Information Technology: Research and Education*, New Jersey, U.S.A., August 10-13, 2003.
- 33 C. C. Yang and F. L. Wang, "Fractal Summarization: Summarization Based on Fractal Theory," *Proceedings of the 26<sup>th</sup> Annual International ACM SIGIR Conference: Research and Development in Information Retrieval*, Toronto, Canada, July 28 - August 1, 2003.
- 34 K. W. Li and C. C. Yang, "Automatic Construction of Cross-lingual Networks of Concepts from the Hong Kong SAR Police Department," *Proceedings of the First NSF/NIJ Symposium on Intelligence and Security Informatics (ISI 2003)*, Tucson, U.S.A., June 2-3, 2003.
- 35 C. C. Yang and K. W. Li, "Generating Cross-lingual Concept Space from Parallel Corpora on the Web," *Proceedings of the International World Wide Web Conference*, Budapest, Hungary, May 20-24, 2003.
- 36 C. C. Yang and F. L. Wang, "Automatic Summarization for Financial News Delivery on Mobile Devices," *Proceedings of the International World Wide Web Conference*, Budapest, Hungary, May 20-24, 2003.
- 37 C. C. Yang and F. L. Wang, "Fractal Summarization for Mobile Device to Access Large Documents on the Web," *Proceedings of the International World Wide Web Conference*, Budapest, Hungary, May 20-24, 2003.
- 38 G. Torkzadeh and C. C. Yang, "Measures of Perceived User Satisfaction with Internet Search Engines," *Proceedings of the ISOneWorld Conference and Convention, Las Vegas*, April 23-25, 2003.
- 39 S. H. Kwok, S. M. Liu, R. Cheung, S. Chan, and C. C. Yang, "Searching Behavior in Peer-to-Peer Communities," *Proceedings of the IEEE International Conference on Information Technology: Coding and Computing*, Las Vegas, April 28-30, 2003.
- 40 C. C. Yang and F. L. Wang, "Document Summarization on Handheld Device: An Information Visualization Tool for Mobile Commerce," *Proceedings of the Workshop on e-Business (WEB2002) in ICIS 2002*, Barcelona, December 14-15, 2002.
- 41 C. C. Yang and V.N.A. Naikan, "Application of Hierarchical Interval Constraint Networks for Optimization of Tolerance Allocation," *Proceedings of the Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems*, Taipei, Taiwan, December 18-20, 2002, pp.642-645.
- 42 C. C. Yang and K. W. Li, "Building Parallel Corpora by Automatic Title Alignment,"

- Proceedings of the International Conference on Asia Digital Libraries*, Singapore, December 11-14, 2002.
- 43 C. C. Yang, S. H. Kwok, and M. K. Yip, "Image Browsing of Feature-based Products," *Proceedings of the SPIE International Conference on Electronic Imaging and Multimedia Technology, Photonics Asia*, Shanghai, China, October 14-18, 2002.
  - 44 C. C. Yang and M. K. Yip, "Quantization of Color Histograms using GLA," *Proceedings of the SPIE International Conference on Electronic Imaging and Multimedia Technology, Photonics Asia*, Shanghai, China, October 14-18, 2002.
  - 45 C. C. Yang and K. W. Li, "English/Chinese Documents Alignment using Length-based and Text-based Approaches," *Proceedings of the International Conference on Digital Library — IT Opportunities and Challenges in the New Millennium*, Beijing, China, July 9-11, 2002.
  - 46 C. C. Yang, H. Chen, and K. Hong, "Exploring the World Wide Web with Self-Organizing Map," *Proceedings of the International World Wide Web Conference*, Honolulu, Hawaii, May 7-11, 2002.
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  - 49 S. H. Kwok and C. C. Yang, "Watermarking in Online Media E-Business," *Proceedings of the IEEE International Conference on Information Technology: Coding and Computing*, Las Vegas, April 8-10, 2002.
  - 50 C. C. Yang and K. W. Li, "Building Chinese/English Parallel Corpus from HK Government Press Release," *Proceedings of HKTerm 2002 - The Asia-Pacific Workshop on Terminology*, Hong Kong, March 29-30, 2002.
  - 51 C. C. Yang, S. H. Kwok, and M. Yip, "Image Browsing for Infomediaries," *Proceedings of the Thirty-fifth Hawaii International Conference on System Sciences*, Hawaii, January 7-10, 2002.
  - 52 C. C. Yang and A. Chung, "Retrieving Chinese Web Financial News using User Profile and User Feedback," *Proceedings of the 3rd International Conference on Information, Communications and Signal Processing (ICICS 2001)*, Singapore, October 15-18, 2001.
  - 53 S. Krishna, V.N.A. Naikan, S. Sahu, and C. C. Yang, "Application of TPM Activities in Indian Jute Industry for Productivity Improvement," *Proceedings of XII World Productivity Congress*, October, Hong Kong, 2001.
  - 54 C. C. Yang and J. Wong, "Tolerance Synthesis by Constraint Propagation," *Proceedings of the 5th World Multiconference on Systemics, Cybernetics and Informatics*, Orlando, June, 2001.
  - 55 C. C. Yang and M. K. Yip, "Visual Thesaurus for Color Image Retrieval using Self-Organizing Map," *Proceedings of the 7th International Conference on Information Systems Analysis and Synthesis*, Orlando, June, 2001.
  - 56 C. C. Yang and A. Chung, "Intelligent Agents for Retrieving Chinese Web Financial News," *Proceedings of the International Conference on Information Systems*, Brisbane, Australia, December 10-13, 2000, p.288-301.
  - 57 C. C. Yang and J. Luk, "Constructing Chinese-English Concept Space," *Proceedings of the International Conference on Asia Digital Library*, Seoul, South Korea, December 6-8, 2000.

- 58 C. C. Yang and J. Luk, "A Heuristic Method for Chinese Segmentation," *Proceedings of the International Conference on Asia Digital Library*, Seoul, South Korea, December 6-8, 2000.
- 59 C. C. Yang and S. H. Kwok, "Gamut Clipping in Color Image Processing," *Proceedings of the IEEE International Conference on Image Processing*, Vancouver, B.C., Canada, September, 2000.
- 60 S. H. Kwok, and C. C. Yang, K. Y. Tam, and J. Wong, "An SDMI-based Rights Management Systems for Electronic Media Using Digital Watermarking," *Proceedings of the International Conference on Electronic Commerce*, Seoul, Korea, August 21-24, 2000.
- 61 C. C. Yang and W. W. Chan, "Metadata Design for Chinese Medicine Digital Library Using XML," *Proceedings of the Thirty-third Annual Hawaii International Conference of Systems Sciences*, Hawaii, January, 2000.
- 62 S. H. Kwok, C. C. Yang, and K. Y. Tam, "Watermark Design Pattern for Intellectual Property Protection in Electronic Commerce Applications," *Proceedings of the Thirty-third Annual Hawaii International Conference of Systems Sciences*, Hawaii, January, 2000.
- 63 C. C. Yang, H. Chen, and K. Hong, "Visualization Tools for Self-Organizing Maps," *Proceedings of the ACM International Conference on Digital Libraries*, Berkeley, CA, August 11-14, 1999.
- 64 C. C. Yang and M. T. Chan, "Color Image Retrieval Based on Textural and Chromatic Features," *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics*, Tokyo, Japan, October 12-15, 1999.
- 65 S. K. Yung and C. C. Yang, "Intelligent Multi-Agents for Supply Chain Management," *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics*, Tokyo, Japan, October 12-15, 1999.
- 66 S. K. Yung and C. C. Yang, "A New Approach to Solve Supply Chain Management Problem by Integrating Multi-agent Technology and Constraint Network," *Proceedings of the Thirty-second Annual Hawaii International Conference of Systems Sciences*, Hawaii, January, 1999
- 67 C. C. Yang, J. Yen, S. Yung, and A. Chung, "Chinese Indexing with Mutual Information," *Proceedings of the First Asia Digital Library Workshop*, Hong Kong, August 6-7, 1998.
- 68 J. Yen, C. C. Yang, A. S. M. Lau, A. Chung, K. Hwang, and D. Yeung, "Transparency and Efficiency in Information Transmission and Financial Digital Library," *Proceedings of the First Asia Digital Library Workshop*, Hong Kong, August 6-7, 1998.
- 69 C. C. Yang, J. Yen, and H. Chen, "Intelligent Internet Searching Engine Based on Hybrid Simulated Annealing," *Proceedings of the Thirty-first Annual Hawaii International Conference on System Sciences*, Hawaii, January, 1998.
- 70 C. C. Yang and M. H. Yang, "Constraint Networks: A Survey," *Proceedings of IEEE Intl. Conference on Systems, Man, and Cybernetics*, Orlando, FL, October, 1997.
- 71 C. C. Yang and F. W. Ciarallo, "Optimization of Propagation in Interval Constraint Networks for Tolerance Design," *Proceedings of IEEE Intl. Conference on Systems, Man, and Cybernetics*, Orlando, FL, October, 1997.
- 72 C. C. Yang, "Fuzzy Bayesian Inference," *Proceedings of IEEE Intl. Conference on Systems, Man, and Cybernetics*, Orlando, FL, October, 1997.
- 73 C. C. Yang and F. W. Ciarallo, "Minimizing the Probabilistic Magnitude of Active Vision Errors using Genetic Algorithm," *Proceedings of IEEE Intl. Conference on Systems, Man, and Cybernetics*, Orlando, FL, October, 1997.

- 74 M. H. Yang, C. C. Yang, and Y. M. Chung, "A Natural Language Processing Based Internet Agent," *Proceedings of IEEE Intl. Conference on Systems, Man, and Cybernetics*, Orlando, FL, October, 1997.
- 75 C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Tolerance Analysis and Synthesis by Interval Constraint Networks," *Proceedings of IEEE Intl. Conference on Robotics and Automation*, Albuquerque, NM, April 20-25, 1997.
- 76 K. Crosby, C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Camera Settings for Dimensional Inspection Using Displacement and Quantization Errors," *Proceedings of IEEE Intl. Conference on Robotics and Automation*, Albuquerque, N., April 20-25, 1997.
- 77 H. Chen, Y. Chung, M. Ramsey, C. C. Yang, P. C. Ma, and J. Yen, "Intelligent Spiders for Internet Searching," *Proceedings of Hawaii Intl. Conference on Systems Sciences*, Maui, Hawaii, January 4-7, 1997.
- 78 F. W. Ciarallo, C. C. Yang, and M. M. Marefat, "Displacement Errors in Active Visual Inspection," *Proceedings of IEEE Intl. Conference on Robotics and Automation*, Minneapolis, Minnesota, April 22-28, 1996.
- 79 C. C. Yang and J. J. Rodriguez, "Saturation Clipping in the LHS and YIQ Color Spaces," *Proceedings of SPIE/IS&T Color Imaging: Device-Independent Color, Color Hard Copy and Graphic Arts*, San Jose, California, January 28 - February 2, 1996.
- 80 M. M. Marefat and C. C. Yang, "Active Visual Dimensional Inspection and Accuracy Analysis," *Proceedings of NSF Design and Manufacturing Conference*, Albuquerque, New Mexico, January 3-6, 1996.
- 81 C. C. Yang and J. J. Rodriguez, "Efficient Luminance and Saturation Processing Techniques on Color Images," *Proceedings of IEEE Intl. Conference on Systems, Man and Cybernetics*, Vancouver, British Columbia, October 22-25, 1995.
- 82 C. C. Yang and K. M. Cheung, "Fuzzy Bayesian Analysis with Continuous-Valued Evidences," *Proceedings of IEEE Intl. Conference on Systems, Man and Cybernetics*, Vancouver, British Columbia, October 22-25, 1995.
- 83 M. M. Marefat and C. C. Yang, "Computer-Integrated Dimensional Inspection: Planning and Error Analysis," *Proceedings of NSF Design and Manufacturing Conference*, La Jolla, January 4-6, 1995.
- 84 C. C. Yang, M. M. Marefat, and F. W. Ciarallo, "Analysis of Errors in Dimensional Inspection Based on Active Vision," *Proceedings of SPIE Intelligent Robots and Computer Vision XIII: 3D Vision, Product Inspection and Active Vision*, Boston, MA, October 31 - November 4, 1994.
- 85 C. C. Yang and M. M. Marefat, "Spatial Quantization Errors in Active Vision Inspection," *Proceedings of IEEE Intl. Conference on Systems, Man and Cybernetics*, San Antonio, TX, October 2-5, 1994.
- 86 C. C. Yang, M. M. Marefat, and R. L. Kashyap, "Automated Visual Inspection System for CAD Models," *Proceedings of IEEE Intl. Conference on Robotics and Automation*, San Diego, CA, May 8-13, 1994.
- 87 C. C. Yang and M. M. Marefat, "Flexible Active Computer Integrated Visual Inspection," *Proceedings of NSF Design and Manufacturing Conference*, Cambridge, MA, January 5-7, 1994.

## **Books**

1. H. Chen and C. C. Yang, *Intelligence and Security Informatics: Techniques and Applications*, Springer Verlag, in preparation.
2. F. L. Wang and C. C. Yang, Extracting the Essence: Automatic Text Summarization, *Encyclopedia of Digital Libraries*, Idea Group, Inc., to appear.
3. H. Chen, F. Wang, C. C. Yang, D. Zeng, M. Chau, K. Chang, *Intelligence and Security Informatics, Proceedings of WISI 2006*, Singapore, Lecture Notes on Computer Science, Springer Verlag, 2006.
4. C. C. Yang and F. L. Wang, Information Delivery for Mobile Business: Architecture for Accessing Large Documents through Mobile Devices, *Handbook of Research in Mobile Business*, Bhuvan Unhelkar (Editor), Idea Group Publishing, Hershey, PA, USA, 2005.
5. C. C. Yang and K. W. Li, Cross-Lingual Information Retrieval: The Challenge in Multilingual Digital Libraries, *Design and Usability of Digital Libraries: Case Studies in the Asia Pacific*, Yin-Leng Theng and Schubert Foo (Editors), Idea Group Publishing, Hershey, PA, USA, 2004.
6. C. C. Yang, Chapter 7. Automated Visual Inspection: Techniques and Applications in Manufacturing Systems, *Computer Aided and Integrated Manufacturing Systems, Vol.2 Intelligent Systems Technologies*, Cornelius T. Leondes (editor), UCLA, World Scientific, 2003.
7. J. Yen, and C. C. Yang, *East Meets West: Proceedings of the First Asia Digital Library Workshop*, University of Hong Kong Library Publications, 1998.

#### **Other Publications**

- 1 C. C. Yang, "CAD-based Active Vision Inspection, Accuracy Analysis, and Tolerance Design," *Ph.D. Dissertation*, Department of Electrical and Computer Engineering, the University of Arizona, 1997.
- 2 C. C. Yang, "Effects of Coordinate Systems on Color Image Processing," *M.S. Thesis*, Department of Electrical and Computer Engineering, the University of Arizona, 1992.

## Research Grants

1. Integrating Source Category Tree with Master Category Tree for Personalized Knowledge Management, RGC Earmarked Grant for Research, Research Grant Council, September 2005 – August 2007.
2. Intelligent Grid Computing, Special Equipment Grant, The Chinese University of Hong Kong, 2005-2006.
3. Optimal Inventory Rationing and Allocation Policy in Multi-echelon Supply Chains, Principal Investigator, RGC Direct Grant for Research, The Chinese University of Hong Kong, 2005-2006.
4. Chinese Medicine Informatics – XML Scheme and Query, Eu Yan Sang (Hong Kong) Ltd., 2003 – 2004.
5. Development of a Mobile Commerce Environment, Special Equipment Grant, The Chinese University of Hong Kong, 2003-2004.
6. XML Database: Technology and Applications, Strategic Research Grant, The Chinese University of Hong Kong, April 2003 – March 2006.
7. Hong Kong Traditional Architectural Information System, the Antiquities and Monuments Office (AMO) of Hong Kong SAR Government, subcontract, 2003.
8. User Satisfaction with Internet Search Engines, Summer Research Grant, the Chinese University of Hong Kong, May – June, 2003.
9. Automation Generation of Chinese/English Cross-Lingual Concept Space by Associate Constraint Network, Principal Investigator, RGC Earmarked Grant for Research, Research Grant Council, September 2002 - August 2004.
10. A System Platform for Teaching and Research in E-Intelligence Area, Special Equipment Grant, The Chinese University of Hong Kong, 2002 - 2003.
11. A New Computing Environment to Support Teaching and Research in Logistic Optimization and Other Areas, Co-Investigator, Special Equipment Grant, The Chinese University of Hong Kong, 2002 - 2003.
12. Concept-Based Chinese/English Cross-Lingual Information Retrieval, RGC Direct Grant for Research, The Chinese University of Hong Kong, 2001 - 2002.
13. Towards Cost-Effective E-Business in the News Media and Publishing Industry Using NewsML, Innovation and Technology Fund, 2001-2004.
14. Bilingual Internet Search Engine, Principal Investigator, RGC Direct Grant for Research, The Chinese University of Hong Kong, 2000 - 2002.
15. Bilingual Search Engine, Area of Excellence, Research Grant Council, 2000 - 2002.
16. Constraint Based Reasoning Approach for Tolerance Analysis and Tolerance Synthesis, RGC Earmarked Grant for Research, Research Grant Council, September 1999 - August 2002.
17. Color Image Retrieval and Visual Thesaurus, RGC Earmarked Grant for Research, Research Grant Council, September 1998 - August 2001.
18. Tolerance Design using Constraint Networks, Research Initiation Grant, Committee on Research Grants Council, The University of Hong Kong, April 1998 - March 2000.
19. Financial Digital Library and Intelligent Agents, Research Initiation Grant, Committee on Research Grants Council, The University of Hong Kong, January 1999 - January 2000.

## **Teaching Experience**

### **Undergraduate Courses:**

Concepts of Information Systems  
Information Systems Management  
Information Systems Analysis and Design  
Systems Design and Implementation  
Object-Oriented Analysis and Design (Unified Modeling Language)  
Artificial Intelligence  
Client/Server Systems

### **Graduate Courses:**

Web Mining  
Information Technology Management  
Fundamentals to Electronic Commerce Technologies

### **Award in Teaching**

*Exemplary Teaching Award*, Faculty of Engineering, the Chinese University of Hong Kong, 2001/2002  
*Exemplary Teaching Award*, Faculty of Engineering, the Chinese University of Hong Kong, 2004/2005.

## Professional Service

### Journal Editors:

- Associate editor, Decision Support Systems
- Guest editor of the Journal of the American Society for Information Science and Technology, Special Topic Issue on Mining Web Resources for Enhancing Information Retrieval, to appear in 2006.
- Guest editor of Decision Support Systems, Special Issue on Multilingual Knowledge Management, to appear in 2006.
- Guest editor of the Journal of the American Society for Information Science and Technology, Special Topic Issue on Multilingual Information Systems, vol.57, no.5, 2006.
- Guest editor of Journal of Intelligent Information Systems
- Guest editor of Neural Information Processing Letters and Reviews

### Conference Chairs, Program Chairs, and Invited Speakers:

- Program Chair, IEEE International Conference on Intelligence and Security Informatics, Taipei, Taiwan, 2008.
- Area Chair on Text and Data Mining, Asia Information Retrieval Symposium, 2008.
- Workshop Co-chair, Pacific Asia Workshop on Intelligence and Security Informatics, Taipei, Taiwan, 2007.
- Track Chair of the Pacific Asia Conference on Information Systems on the Track of Software and Data Engineering, Malaysia, 2006.
- Workshop General Chair of the Workshop on Intelligence and Security Informatics, Singapore, 2006.
- Panel Chair of the 4<sup>th</sup> Workshop on e-Business (Web), Las Vegas, USA, 2005.
- Invited speaker, Workshop on the Sciences of the Artificial, Taiwan, December, 2005.
- *Invited keynote speaker* in the International Conference on Digital Libraries, New Delhi, February 24-27, 2004.
- Poster and Demo Chair of the IEEE/ACM Joint Conference of Digital Library, Tucson, Arizona, U.S.A., 2004.
- Co-chair of Technical Track on Information Management, IEEE International Conference on Information Technology: Research and Education, New Jersey, U.S.A., 2003.
- Organizing committee co-chair of the ACM International Collegiate Programming Contest, Asia Region, Hong Kong, 2000
- General co-chair of the 1999 Hong Kong ACM Post-graduate Research Day, Hong Kong, 1999
- Program co-chair of the 1<sup>st</sup> Asia Digital Library Workshop, Hong Kong, 1998
- General chair for the 1<sup>st</sup> Hong Kong ACM Post-graduate Research Day, Hong Kong, 1998
- Chair of the HKU Workshop on Information Systems Teaching and Research: Past, Present, and Future, Hong Kong, 1998

### Program Committee Members and Organizing Committee Members:

- Program committee member of the 10<sup>th</sup> International Conference on Asian Digital Libraries, Hanoi, Vietnam, 2007.
- Program committee member of the IEEE International Conference on Intelligence and Security

Informatics, New Brunswick, NJ, 2007.

- Program committee member of the International Conference on Information Systems, Motreal, 2007.
- Program committee member of the International Conference on Information Systems, Mauwaukee, 2006.
- Program committee member of the International Conference on Asia Digital Library, Kyoto, Japan, 2006.
- Program committee member of the IEEE International Conference on Intelligence and Security Informatics, CA, 2006.
- Technical program committee member of the IEEE International Conference on Information Technology: Research and Education (ITRE2006), Israel, 2006.
- Program committee member of the Third International Conference on Information Technology, Las Vegas, 2006.
- Program committee member of the 10<sup>th</sup> IEEE International EDOC Conference – The Enterprise Computing Conference (EDOC2006), Hong Kong, 2006.
- Program committee member of the 7<sup>th</sup> International Conference on Web-Age Information Management (WAIM'06), Hong Kong, 2006.
- Program committee member of the International Conference on Information Systems, Las Vegas, 2005.
- Program committee member of the International Conference on Asia Digital Library, Bangkok, Thailand, 2005.
- Program committee member of the Workshop on the Sciences of the Artificial, Taiwan, December, 2005.
- Program committee member of the Pacific Asia Conference on Information Systems, Bangkok, Thailand, 2005.
- Program committee member of the 43<sup>rd</sup> Annual Meeting of the Association for Computational Linguistics (ACL 2005), Ann Arbor, Michigan 2005.
- Program committee member of the 2<sup>nd</sup> International Joint Conference on Natural Language Processing (IJCNLP 2005), Jeju Island, Korea, 2005.
- Program committee member of the 3<sup>rd</sup> International Conference on Intelligence and Security Informatics (ISI 2005), Atlanta, GA, 2005.
- Program committee member of the International Conference on Digital Archive Technologies, Taipei, Taiwan, 2005.
- Reviewer of ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Long Beach, CA, 2005.
- Technical Program committee member of the IEEE International Conference on Information Technology: Research and Education, Hsinchu, Taiwan, 2005.
- Program committee member of the Seventh International Conference on Asia Digital Library, Shanghai, China, 2004.
- Program committee member of the 3<sup>rd</sup> Workshop on e-Business (Web), Washington D.C., USA, 2004.
- Program committee member of the Pacific Asia Conference on Information Systems (PACIS), Shanghai, 2004.
- Program committee member of the IEEE International Conference on Information Technology: Research and Education, New Jersey, U.S.A., 2004.
- Program committee member of the APEC Workshop on Resource Sharing in Digital Libraries,

Academia Sinica, Chinese Taipei, 2004.

- Program committee member of the International Conference on Digital Archive Technologies, Academia Sinica, Chinese Taipei, 2004.
- Program committee member of the 5th International Conference on Web-Age Information Management, Dalian, China, 2004.
- Program committee member of the Second NSF/NIJ Symposium on Intelligence and Security Informatics, Tucson, Arizona, U.S.A., 2004.
- Program committee member of the 2<sup>nd</sup> Workshop on e-Business, Seattle, USA, 2003.
- Program committee member of the Sixth International Conference on Asia Digital Library, Kuala Lumpur, Malaysia, 2003.
- Program committee member of the 20th International Conference on Computer Processing of Oriental Languages, Shenyang, China, 2003.
- Program committee member of the First NSF/NIJ Symposium on Intelligence and Security Informatics, Tucson, Arizona, U.S.A., 2003.
- Program committee member of Special Workshop on Applications of Fractals in Computer Science, Signal, and Image Processing in the International Conference on Imaging Science, Systems, and Technology, Las Vegas, U.S.A., 2003.
- Program committee member of the IEEE International Conference on Information Technology: Research and Education, New Jersey, U.S.A., 2003.
- Program committee member of the International Conference on Chinese Language Computing, Taiwan, 2002.
- Program committee member of the Eleventh International World Wide Web Conference, Honolulu, U.S.A., 2002
- Program committee member of the Fifth International Conference on Asia Digital Library, Singapore, 2002.
- Program committee member of Second Asia-Pacific Conference on Quality Software, Hong Kong 2001
- Program committee member of the Third Asia Digital Library Workshop, Seoul, Korea, 2000
- Program committee member of the International Conference on Chinese Language Computing, Chicago, U.S.A., 2000
- Program committee member of the First Asia-Pacific Conference on Quality Software, Hong Kong, 2000
- Organizing committee member of the 5th International Workshop on Information Retrieval with Asian Languages, Hong Kong, 2000
- Program committee member of the 5<sup>th</sup> IEEE International Computer Science Conference, Hong Kong, 1999
- Organizing committee member of the International Database Conference, Hong Kong, 1999
- Organizing committee member of the ACMHK Students Programming Contest, Hong Kong, 1999
- Organizing committee member for the Asian Conference on Computer Vision, Hong Kong, 1998
- Organizing committee member for the ACM Hong Kong Students Programming Contest, Hong Kong, 1998
- Program committee member for the IEEE International Conference on Systems, Man, and Cybernetics, Orlando, Florida, U.S.A., 1997

**Professional Organizations:**

- Steering committee member of IEEE International Conference on Intelligence and Security Informatics, 2006 – present
- Steering committee member of Pacific Asia Conference on Intelligence and Security Informatics, 2005 - present
- Steering committee member of the International Conference on Asia Digital Libraries, 1998 - present
- Member of Technical Committee on Homeland Security: Information, Communication, and Transportation in the IEEE Intelligent Transportation System Council
- Board Director of Chinese Association for Information Systems, 2006 – present
- *Chairman of the Association of Computing Machinery* Hong Kong Chapter, 2000 - 2001
- Executive committee officers of the Association of Computing Machinery Hong Kong Chapter, 1997-2001

**Proposal Reviewers:**

- Vetting committee member in Hong Kong Cyberport Management Co. Ltd., digital rights management programme, 2006 – 2007.
- *Invited Panelist of the Review Panel in the NSF*, U.S.A., 1998 – present.
- Reviewer of research grant proposals for Hong Kong Research Grant Council
- Reviewer of research grant proposals for the National Institute of Education, Singapore
- Reviewer of research grant proposals for the Ministry of Education, Singapore
- External reviewer for Institute of Information Science, Academic Sinica, Taiwan

**External Examiners:**

- External examiner of National Sun Yat Sen University
- External examiner of National Tsing Hua University
- External examiner of Nanyang Technological University
- External examiner of the University of Hong Kong
- External examiner of the Hong Kong Polytechnic University

**Journal Reviewers:**

- Reviewer for ACM Transactions on Information Systems
- Reviewer for Communications of the ACM
- Reviewer for IEEE Transactions on Knowledge and Data Engineering
- Reviewer for IEEE Transactions on Pattern Recognition and Machine Intelligence
- Reviewer for IEEE Transactions on Robotics and Automation
- Reviewer for IEEE Transactions on Systems, Man, and Cybernetics
- Reviewer for IEEE Transactions on Intelligent Transportations Systems
- Reviewer for IEEE Transactions on Fuzzy Systems
- Reviewer for IEEE Computer
- Reviewer for IEEE Intelligent Systems
- Reviewer for IEEE Internet Computing

- Reviewer for IEEE Multimedia
- Reviewer for IIE Transactions
- Reviewer for Journal of the American Society for Information Science
- Reviewer for Journal of the American Society for Information Science and Technology
- Reviewer for Information Processing & Management
- Reviewer for Information Processing Letters
- Reviewer for Information Sciences
- Reviewer for Journal of Information Science
- Reviewer for Journal of Information Science and Engineering
- Reviewer for Journal of Management Information Systems
- Reviewer for Data and Knowledge Engineering
- Reviewer for Decision Support Systems
- Reviewer for Knowledge and Information Systems
- Reviewer for International Journal of Electronic Commerce
- Reviewer for Electronic Commerce Research and Applications
- Reviewer and distinguished list of referees for Journal of Robotic Systems
- Reviewer for International Journal for Neural Systems
- Reviewer for Intelligent Automation and Soft Computing
- Reviewer for ASME Transactions on Computing and Information Science in Engineering
- Reviewer for International Journal of Computer, Systems and Signals
- Reviewer for Journal of Computer Science and Technology
- Reviewer for Machine Vision & Applications Journal
- Reviewer for International Journal on Computer Processing of Oriental Languages
- Reviewer for CRC Press

**Service Award:**

- *Recognition of Service Award*, the Association for Computing Machinery (ACM), 2000