

Prof. Yuh-Jong Hu
Curriculum Vitae-2007



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Research Interests

Semantic Web, Social Network Analysis, Information and Law

Education

Ph.D. in Computer Science, University of Missouri-Rolla, 1991.
Dissertation: *In Search of the Optimal Adaptive Load Sharing Policy for Distributed Systems*
M.S. in ORSA, University of North Carolina at Chapel Hill, 1984.
Thesis: *Queueing Networks: Theory and Applications*
B.S. in Applied Mathematics, National Chengchi University, 1980.

Employment

Aug/2002--Professor, Dept. of Computer Science, National Chengchi University.
Aug/1999-July/2002--Chairman of Dept. of Computer Science, National Chengchi University.
Aug/1993-July/2002--Associate Professor, Dept. of Computer Science, National Chengchi University.
Jan/1991-July/1993--Associate Professor, Dept. of MIS, National Chengchi University.
Aug/1984-July/1987--Assistant Researcher, Network Planning Dept., DGT, Taiwan.

ACM (1993-)
IEEE in Computer (1993-2005)
The New York Academy of Sciences (1993) TAAI Taiwan (1994-)
IICM Taiwan(1995-)

Awards and Honors

Marquis Who's Who in the World 1995
1994 National Chengchi University Research Award

Publications

In preparation

- Hu, Y.J. and Cheng-Yuan Yu, "A Semantic Social Network-Based Blog Portal."
- Hu, Y. J. and C. C. Chen, "SWRL-Based Digital Rights Management Policy and Application on the Web."
- Hu, Y. J. and Chun-Chu Yang, "The Creative Commons (CC) Rights Description Control System on the Peer to Peer (P2P) Network."

Appeared or In Press

2005

- Hu, Y. J., "Pre-proposal Idea" Semantic Web Services with Constraints Policy for P2P (Grid) Systems, *2005 Euro-Taiwan IT Co-operation (EuroTaiwan 2005)* (poster), Apr. 28-29, 2005.
- Hu, Y. J., "Combining Ontology and Rules as Service Constraint Policy for P2P Systems." *Web Service Semantics: Towards Dynamic Business Integration Workshop at WWW 2005* (position statement), May 10-14, 2005.
- Hu, Y. J., "How to Legally and Fair Share Digital Contents in the Peer to Peer Information System." *The Pilot Project Workshop for Public Domain Information Access in the Information Age*, Law Institute, Academic Sinica, Oc. 14, 2005 (In Chinese).

2004

- Hu, Y., J., "A New Infrastructure for E-Government: Building A Knowledge Management Portal for E-Government Services.", *The workshop for government staff service capabilities in E-Government*, Dept. of Public Administration, National Taipei University, Dec. 11, 2004 (In Chinese).

2003

- Hu, Y. J. and C. W. Tang, "Agent-Oriented Public Key Infrastructure for Multi-Agent E-Service." *Seventh International Conference on Knowledge-Based Intelligent & Engineering System (KES'2003)*, University of Oxford, UK.
- Hu, Y. J., "Trusted Agent-Mediated E-Commerce Transaction Services via Digital Certificates Management." *Electronic Commerce Research (ECR) Journal*, Vol. 3, Issues 3-4, July-October, 2003, pp. 221-243.

2002

- Huang, T. C. and Y. J. Hu, “Incentives of Agent-Based Distributed Intrusion Detection Systems on the Open Internet.” *The 2002 International Conference on Security and Management (SAM’02)*.

2001

- Hu, Y. J., “Some Thoughts on Agent Trust and Delegation.” *The Fifth International Conference on Autonomous Agents (AA’01)*, May 28 - June 1, 2001, Montreal, Canada.
- Lee, I. C. and Y. J. Hu, “An Agent-Based Secure E-Commerce Environment with Distributed Authentication and Authorization Services.” *The 2001 International Conference on Internet Computing (IC-2001) Session on Agents for E-Business on the Internet*,” Monte Carlo Resort, Las-Vegas, USA, June 25-28, 2001.
- Hu, Y. J. et al., “The Study of Monitoring Mechanisms and Systems for Encryption Messages on the Information Network.” *NSC Technical Report*, NSC 90-CS-7-004-001, Dec, 2001.
- Hu, Y. J. et al., “The Evaluation and Development of Embedded Online Intrusion Detection Prototype Systems (EOIDS).” *Technical Report*, XU90H72P.

2000

- Hu, Y. J., “Agent-Based Attack and Defense for an Intranet Environment, *RSA Conference 2000*, Jan. 16-20, 2000 in San Jose, CA.
- Hu, Y. J., “The Study of Cyberspace Users to Participate Government Affairs,” *Technical Report*, Research, Development, and Evaluation Commission(RDEC), RDEC-MIS-089-027 (In Chinese).

1998

- Hu, Y. J., “Autonomous Security Agents: Negotiating Compatible Crypto Protocols on Behalf of the End-User, *1998 RSA Data Security Conference*, Jan. 13-16, 1998 in San Francisco.
- Hu, Y. J., “Automated Negotiation Protocols: Embedded the Negotiation Policies into the Agent Conversation Protocols” *Technical Report* Taiwan National Science Council , NSC 87-2213-E-004-005.

1997

- Hu, Y. J., “My Secure Java Agents Use Secure Agent Communication Protocols to Autonomously Proceed Secure Conversation, *The First Agent Workshop in Taiwan, ATWORK’97*, Dec.-4-1997.
- Hu, Y. J., “Secure Agent Communication Protocols for Distributed Open Multi-Agent Systems” *Technical Report* Taiwan National Science Council , NSC 86-2213-E-004-007.

1996

- Hu, Y. J., “Interaction Protocols for Intelligent Agents in Distributed Services Environment”, *The International Conference on Distributed Platforms, ICDP’96*, Dresden, Germany, Feb. 1996.
- Hu, Y. J., “Cooperation, Negotiation, and Conflict Resolution Protocols for Automatic Services and Resources Allocation,” *Seventh European Workshop on Modelling Autonomous Agents in a Multi-Agent Work, MAAMAW’96*, The Netherlands, Jan. 1996.

1995

- Hu, Y. J., “Intelligent Autonomous Resources Allocation in Distributed Open Multiagent System”, *The Workshop of Decentralized Intelligent and Multi-Agent Systems*, DIMAS’95, Cracow, Poland, 1995.
- Hu, Y. J., “Agent Communication Protocols for Automatic Services and Resources Allocation” *Technical Report* Taiwan National Science Council , NSC 83-0408-E-004-001, NSC 84-2213-E-004-002.

1994

- Hu, Y.J. et al., “How to Use a Client-Server Framework to Build Application Systems in the Heterogeneous Environment,” *5th International Conference on Information Management*, Taipei, May 1994, pp.229-237.
- Hu, Y.J., et al., “Design Open On-Line Transaction Processing Application Systems,” Technical Report, Taiwan National Science Council, NSC 82-0415-004-004 *Technical Report*, April 1994.

1993

- Hu, Y.J., “The Strategic Planning for Open Systems Environments,” *1993 Pan Pacific Conference on Information Systems*, May 1993, Kaoshiung, Taiwan, pp. 127-132.

1992

- Hu, Y.J. and Billy E. Gillett, “In Search of the Optimal Adaptive Load Sharing Policy for Distributed Systems,” *The Second International Computer Science Conference*, Hong-Kong, Dec. 1992, pp. 523-529.
- Wu, Ming-Ch’uan and Y.J. Hu, “Implementing a Workload Notifier System for Adaptive Load Balancing by Remote Procedure Calls,” *Proceeding of the Third National Conference on Information Management*, Taipei, May 1992, pp. 119-127.

1991

- Hu, Y.J. and Billy E. Gillett, “Simulating Adaptive Load Sharing Policies on an iPSC/2 Multicomputer,” *The Sixth Distributed Memory Computing Conference*, Portland, OR, Apr. 1991, pp. 238-241.

Funded Research and Grants**Proposals Selected for Funding****Awarded**

- Ministry of Education (MOE) 5Y50B Project, Information and Society: Information and Law, 2006-
- Trusted Semantic Web Services Infrastructure: Certification Theory vs. Social Network, NSC 95-2221-E-004-001-MY3, 2006/08/01-2009/07/31.
- Combining Ontology and Rules as Policy to Constraint Services in the Peer-to-Peer Information Sharing Systems, NSC 94-2213-E-004-009.
- Some Issues and Challenges for Policy Representation and Enforcement on the Semantic Web, NSC 93-2213-E-004-005.
- Resolving Some Trusted Agent Issues on the Semantic Web, NSC 92-2213-E-004-005.
- Trust Verification Through Digital Certificates for Open Agent E-Services Environment, NSC 91-2213-E-004-014, 2002.

- Agent-Oriented Public Key Infrastructure (PKI) for Distributed Trust Management, NSC 90-22130-E-004⁵008, 2001.
- The Evaluation and Development of Embedded Online Intrusion Detection Prototype Systems (EOIDS), XU90H72P, 2001.
- The Study of Monitoring Mechanisms and Systems for Encryption Messages on the Information Network, NSC 90-CS-7-004-001, 2001.
- The Study of Cyberspace Users to Participate Government Affairs, Research, Development, and Evaluation Commission(RDEC), the Executive Yuan, RDEC-MIS-089-027, Dec. 2000.
- A Secure Software Agent Framework for Robust Agent Management Services, NSC 89-2213-E-004-002, .
- Internet Security Technology and its Applications, Ministry of Education(MOE) project for network and communication courses improvement, 1999.
- Cooperative Agent Group for a Highly Efficient Web Service Environment, NSC 88-2213-E-004-005.
- Automated Negotiation Protocols: Embedded the Negotiation Policies into the Agent Conversation Protocols, NSC 87-2213-E-004-005.
- Secure Agent Communication Protocols for Distributed Open Multi-Agent Systems, NSC 86-2213-E-004-007
- Agent Communication Protocols for Automatic Services and Resources Allocation, NSC 83-0408-E-004-001, NSC 84-2213-E-004-002.
- Design Open On-Line Transaction Processing Application Systems, NSC 82-0415-E-004-004, 1993.
- The Framework of Taiwan EDGAR System for Information Dissemination, SEC, Department of Finance, Taiwan, Dec 1992.
- The Multimedia Tourism Information Systems, The Bureau of Tourism, Taiwan, Aug 1992.

Academic Services

- Journal of Information Technology and Politics (Reviewer) (2007-)
- The Handbook of Computer Networks (John Wiley & Sons) (Handbook of Computer Networks) (Reviewer).
- Taiwan National Science Council Information Project Review Board Committee during 2003-2006
- 2006 Taiwan Government Officer Examination Grading Board Committee.
- The 2005 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-05)(Program Committee and Reviewer).
- The 2004 International Conference on "Agent Technology for Autonomous Business Processing" (ABA) (Program Committee and Reviewer).
- The 2003 International Conference on "Agent Technology for Autonomous Business Processing" (ABA) (Program Committee and Reviewer).
- Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS) (Reviewer).
- AAMAS(Autonomous Agents & Multi-Agent System) 2005 (AAMAS2005) (Program Committee and Reviewer).
- AAMAS(Autonomous Agents & Multi-Agent System) 2004 (AAMAS2004) (Program Committee and Reviewer).

- AAMAS(Autonomous Agents & Multi-Agent System) 2003 (AAMAS2003) (Program Committee and Reviewer).
- AAMAS(Autonomous Agents & Multi-Agent System) 2002 (AAMAS2002) (Program Committee and Reviewer).
- Electronic Commerce Research Journal (ECR) (Reviewer).
- IEEE Transactions on Systems, Man, and Cybernetics (Reviewer).
- Journal of Information Science and Engineering (JISE)(Reviewer).
- Journal of Internet Technology (JIT) (Reviewer).
- Journal of E-Business (JEB) (Reviewer).

Talks

- DRM vs. CC: Knowledge Creation and Diffusion on the Internet Panel Discussion for Information and Law, Law School, National Chengchi University, Taipei, Taiwan, Oct. 13, 2006.
- The Semantic Web: From Teaching To Research, Information Management Dept., National Yunlin Science & Technology University, Nov. 21, 2005.
- The New Trend of Electronic Democracy: The Trust and Security Issues of E-Voting, Panel Discussion for 2004 e-Democracy, Kaoshiung, Taiwan, Sep. 2, 2004
- The Semantic Web: Current Status and Future Directions, MIS Dept., National Chengchi University, June 1, 2004.
- Information Security, iThome, Apr-22, Apr-30, 2003.
- A Pyramid Framework for the Semantic Web: Some Issues and Challenges, *Agent, Mobile Commerce, and Security* Seminar, III, Taiwan.
- Trusted Agent-Mediated E-Services via Semantic Web Rules Inference, *2002 AI Forum*, May 25, 2002.
- Trusted Agent-Mediated E-Services via Semantic Web Rules Inference, National Dept. of CSIE, Chiao-Tung University, May-2, 2002.
- Exploring the Authenticity, Privacy, and Security Issues from the Existing Cyberspace, National Tsing-Hua University, Nov-8, 2001.
- FIPA 23rd Special Interesting Group on Agent Security, Oct. 2001.
- Secure Electronic Commerce, Top Information System Corp., Taipei, June 22-23, 2001.
- Some Thoughts on Agent Trust and Delegation, Information Management Dept. at National Sun Yat-Sen University, Apr-19, 2001.
- Agent Trust and Delegation, Panel Discussion for *ATWORK2000*, May 30, 2000 at Academic Sinica.
- Internet Security Technology and its Applications, World Consulting Corp. on April 24-25, 2000.
- Agent-Based Information Warfare for an Intranet Environment, National Tsing Hua University on March 22, 2000.
- Some Design Issues on Generic Software Agent Systems Framework, Tatung University, January 11, 1999.
- A Generic Framework for Agent-Based Software Systems, National Dong Hwa University, Oct-30, 1998.

- Security and Billing, Panel Discussion for Rams'98 on Sep-12, 1998 at Academic Sinica.
- Network Security and Cryptography Applications, National Security Bureau on July-30, 1998.
- Internet Security Technology and its Applications, World Consulting Corp. on May 28-29, 1998.

Courses Taught

Department of CS, National Chengchi University

- Semantic Web and Web Services (graduate)
- Secure E-Commerce (graduate)
- Internet Security (graduate)
- Advanced Information Security (graduate)
- Computer Networks (undergraduate)
- Internet Concepts and Applications (undergraduate)
- Distributed Systems (graduate, math. dept.)
- Parallel Processing (graduate, math. dept.)
- Operating Systems (undergraduate)
- Foundation of Computer Science (undergraduate)
- Basic Computer Concepts and Applications (undergraduate)
- Introduction to Algorithm (undergraduate)

Department of MIS, National Chengchi University

- Open Systems and Computer Networks (graduate)
- Principles of Operations Research (graduate)
- Management Information Systems (undergraduate)
- Introduction to Distributed Systems (undergraduate)
- Business Data Communication (undergraduate)
- Special Topics for Client-Server Model (undergraduate)

Dissertation Supervision

Master Supervisor

- Cheng-Yuan Yu
- Chen-Chi, Chen
- Chun-Chu Yang
- Chao-Wei Tang

- Min-Huei Yang
- Se-Ting Chen
- Ting-Chien Huang
- Ing-Chung Lee