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Availability: Available as of May 2009.

EDUCATION	
2002 - Present	Ph.D. in Computer Science (ABD) – University of Central Florida , Orlando, FL Thesis: “Connectionless Approach to Mobile Ad Hoc Network”
2001 – 2002	M.S. in Computer Science – University of Central Florida , Orlando, FL
1997 – 2001	B.S. in Computer Science – University of Central Florida , Orlando, FL
RESEARCH INTERESTS	
Communications & Networking (Wireless Communication Protocols, Intelligent Vehicles, Location-based Services), File Sharing and Broadcast Techniques in Mobile Ad Hoc Network, Video Streaming in High Mobility Networks, Evacuation Management in Urban Environment, Images Retrieval System and Multicast in Multimedia Applications, Backup System in Grid Environment.	
PUBLICATIONS:	
JOURNAL PAPERS	
1.	Yao H. Ho , Ai Hua Ho, Georgiana L. Hamza-Lup and Kien A. Hua, “3-CE: A Cooperation Enforcement Technique for Connectionless-Oriented Approach in Vehicular Networks,” the <i>International Journal on Advance Networks and Services</i> , Vol. 1, No. 2, May 2009 (invited paper).
2.	Yao H. Ho , Ai H. Ho, Kien A. Hua, and Fei Xie “Cooperation Enforcement in a Highly Dynamic Mobile Ad Hoc Network.” the <i>Journal of Telecommunication Systems - Special Issue on Security for Multimedia and Ubiquitous Applications</i> 2009.
3.	Yao H. Ho , Ai H. Ho, and Kien A. Hua, “Routing Protocols for Inter-Vehicular Networks: A Comparative Study in High-Mobility and Large Obstacles Environments,” <i>Computer Communications Journal - Special Issue on Mobility Protocols for ITS/VANET</i> 2008.
4.	Yao H. Ho , Ai H. Ho, and Kien A. Hua, “Connectionless Protocol – A Localized Scheme to Ad Hoc Network.” <i>Proc. of International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)</i> Vol. 2, Issue 1/2, pp. 21 – 35, 2007.
CONFERENCE PAPERS	
5.	Ai Hua Ho, Yao H. Ho , Kien A. Hua, and Roy Villafane, “A Near-Optimal Broadcast Technique for Vehicular Networks,” the <i>IEEE Wireless Telecommunications Symposium (WTS)</i> 2009.
6.	Yao H. Ho , Ai Hua Ho, Georgiana L. Hamza-Lup and Kien A. Hua, “Cooperation Enforcement in Vehicular Networks,” the <i>IEEE International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ)</i> 2008 (as one of the best papers at IEEE CTRQ’08 with overall acceptance rate of 26%).
7.	Yao H. Ho , Kien A. Hua, Ning Jiang, and Fei Xie, “Dynamic Route Diversion in Connectionless Mobile Ad Hoc Network.” the <i>IEEE International Conference on Networking, Architecture, and Storage (NAS)</i> 2008.
8.	Yao H. Ho , Ai Hua Ho, and Kien A. Hua, “Dynamic Route Diversion in Vehicular Network,” the <i>IEEE 15th International Conference on Telecommunications (ICT)</i> 2008.
9.	Hao Cheng, Yao H. Ho , Kien A. Hua, Danzhou Liu, and Fei Xie, “A Software Approach to Storage Backup,” the <i>IEEE International Conference on Service Computing: Industry Track</i> 2008 on February

	18, 2008.
	10. Georgiana L. Hamza-Lup, Yao H. Ho , and Kien A. Hua, "A Corsim-Based Simulation Framework for Real-Time Traffic Evacuation Management," <i>Proc. of the 15th World Congress on Intelligent Transportation System</i> , New York, NY, 2008.
	11. Fei Xie, Kien A. Hua, Wenjing Wang, and Yao H. Ho , "Performance Study of Live Video Streaming over Highway Vehicular Ad hoc Networks," <i>Proc. of IEEE International Symposium on Wireless Vehicular Communication (WiVEC)</i> , 2007.
	12. Fei Xie, Ning Jiang, Yao H. Ho , and Kien A. Hua, "Semi-Split TCP: Maintaining End-to-End Semantics for Split TCP." <i>The 32nd Annual IEEE Conference on Local Computer Networks (LCN)</i> , 2007.
	13. Yao H. Ho , Ai H. Ho, and Kien A. Hua, "Adapting Connectionless Approach to Mobile Ad Hoc Networks in Obstacle Environment." <i>The IEEE International Symposium on Wireless Pervasive Computing 2006</i> , Phuket, Thailand 16-18 January 2006.
	14. Tai Do, Kien A. Hua, and Yao H. Ho . "An Efficient Decentralized Keyword Lookup Scheme for MANETs," <i>Proc. of International Conference on Wireless Network</i> , Las Vegas, Nevada 2005.
	15. Ai Hua Ho, Yao H. Ho , and Kien A. Hua. "Adapting Connectionless Approach to Ad-hoc Networks in Urban Environments," <i>Proc. of International Conference on Wireless Network</i> , Las Vegas, Nevada 2005.
	16. Georgiana L. Hamza-Lup, Kien A. Hua, Rui Peng, and Yao H. Ho . "Real-Time Evacuation Management under Multiple Coordinated Human-Caused Threats," <i>Proc. Of the 12th World Congress on Intelligent Transportation Systems</i> , San Francisco, CA, November 6-10, 2005.
	17. Ai Hua Ho, Yao Hua Ho , and Kien A. Hua. "A Connectionless Approach to Mobile Ad Hoc Networks in Streets Environment," <i>The IEEE Intelligent Vehicles Symposium 2005</i> , Las Vegas, Nevada.
	18. Ning Jiang, Yao H. Ho , and Kien A. Hua. "Range Multicast Routers for Large-Scale Deployment of Multimedia Application," <i>The ACM Multimedia 2004</i> , NY, USA.
	19. Yao H. Ho , Ai Hua Ho, Kien A. Hua, and Georgiana L. Hamza-Lup. "A Connectionless Approach to Mobile Ad Hoc Network," <i>The Ninth IEEE Symposium on Computers and Communications (ISCC)</i> . 2004.
	20. Nualsawat Hiransakolwong, Kien A. Hua, Khanh Vu, and Yao H. Ho , "ASIA: An Automatic Annotation Technique For Query-by-concept in Image Retrieval Systems," in <i>Proc. of the 9th International Conference on Multi-Media Modeling (MMM'03)</i> , January 8-10, 2003, Taiwan.
UNDER REVIEW/PERPARATION	
	21. Ai Hua Ho, Yao H. Ho , and Kien A. Hua, "Handling High Mobility in Next-Generation Wireless Ad Hoc Networks," Submitted to the <i>Special Issue on Next Generation Network (NGN) for International Journal of Communication System 2009</i> on March 25, 2009.
	22. Yao H. Ho , Ai H. Ho, and Kien A. Hua, "Routing Protocols for Wireless Mobile Ad Hoc Network: A Comparative Study in High-Mobility Environment." Submitted to <i>Elsevier International Journal on Performance Evaluation – Special issue on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks</i> on November 18, 2008.
	23. Ai Hua Ho, Yao H. Ho , and Kien A. Hua, "A Map Assisted Broadcast Protocol for Disseminating Information and Request in Street Environments," Under preparation.
RESEARCH EXPERIENCE	
	Symantec® Backup Storage Grid Project (Symantec Grant)
Grid Computing	<ul style="list-style-type: none"> • Proposed a virtual backup server for Symantec Backup Exec to backup between clients using data grid architecture. • Develop prototype using Globus to demonstrate the proposed architecture and its performance. • Patent Pending No. VRT0238US.
Cross-Lay Design	Dynamic Route Diversion for Connectionless Approach (CLA) for MANET

	<ul style="list-style-type: none"> Proposed a dynamic route diversion which takes the workload of individual virtual routers, and dynamically reroute packets as necessary to prevent virtual router overload. Develop simulator using C/C++ and GloMoSim to demonstrate the proposed technique and its performance.
Network Security	<p>Cooperation Enforcement Technique for Connectionless Approach (CLA) for MANET</p> <ul style="list-style-type: none"> Proposed a cooperation enforcement technique, called 3-Counter Enforcement (3CE) which detect the behavior of nodes and punish misbehaving nodes for Connectionless type routing. Develop simulator using C/C++ and GloMoSim to demonstrate the proposed technique and its performance.
Vehicle Networks	<p>Inter-vehicle Communications</p> <ul style="list-style-type: none"> Proposed a new wireless environment to allow robust communications between fast moving vehicles in large cities. Develop simulator using C/C++ and GloMoSim to demonstrate the proposed technique and its performance.
Wireless Networks	<p>Connectionless Approach to Wireless Ad hoc Networks</p> <ul style="list-style-type: none"> Proposed the first connectionless approach to infrastructureless communications using GPS (Global Positioning System) technology. Develop simulator using C/C++ and GloMoSim to demonstrate the proposed technique and its performance.
Computer Architectures	<p>Computer Compiler (class project)</p> <ul style="list-style-type: none"> Design and implement a compiler for a subset of the C language using Microsoft Visual C Studio. The software includes basic compiler functions such as lexical analysis, syntax analysis, syntax-directed translation, semantic analysis, intermediate code generation, code generation, and code optimization.
Database Systems	<p>Relational Database System (class project)</p> <ul style="list-style-type: none"> Design and implement a Graduate Teaching Assistant Information System using Microsoft Access.
Operating Systems	<p>Operating System Simulator (class project)</p> <ul style="list-style-type: none"> Design and implement software, using C/C++ on a SUN machine, to simulate a simple operating system with basic functions such as bootstrapping, deadlock handling, and process synchronization.
Artificial Intelligent	<p>Simulation of Neuron Model (class project)</p> <ul style="list-style-type: none"> Implement software, in Microsoft Visual C Studio, to model neuron as point electric circuit to simulate how human brain gets input, analyzes, and responds. This system also includes a back-propagation network to simulate how brain learns and memorizes things.
TEACHING EXPERIENCE	
Spring 2009	Lab Instructor – Concepts in Computer Science
Fall 2008	Lab Instructor – Concepts in Computer Science
Summer 2008	Lab Instructor – Design and Implementation of Computer Communication Networks
Summer 2008	Lab Instructor – Concepts in Computer Science
Spring 2008	Teaching Assistant – Introduction to Computer Science.

Spring 2008	Teaching Assistant – Computer Fundamentals for Business.
Fall 2006	Teaching Assistant – Computer Forensics I (Graduate Level)
Fall 2004	Teaching Assistant – Advanced Database Management System (Graduate Level)
Spring 2004	Teaching Assistant – Transaction Processing Systems (Graduate Level)
Fall 2003	Teaching Assistant – Parallel & Distributed Databases (Graduate Level)
AWARDS & SCHOLARSHIPS	
2008	Best Paper Award , IEEE International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ).
2008	Top Paper Award , IEEE Symposium on Computer and Communication (ISCC).
2008	Outstanding Dissertation Award , University of Central Florida.
2008	Patent , Backup Storage Grid – UCF and Symantec®.
2006 – 2008	Teaching Assistantship , Computer Science Department, University of Central Florida.
2004 – 2006	Research Assistantship , Symantec Corporation and Computer Science Department, University of Central Florida.
2003 – 2004	Research Assistantship , Computer Science Department, University of Central Florida.
2001 – 2002	Teaching Assistantship , Computer Science Department, University of Central Florida.
PROFESSIONAL MEMBERSHIPS & ASSOCIATIONS	
<p><i>Association of Computing Machinery (ACM).</i></p> <p><i>Institute of Electrical and Electronics Engineers (IEEE).</i></p> <p><i>Upsilon Pi Epsilon (UPE) – International Honor Society for Computing Sciences.</i></p> <p><i>Blue Key Honor Society.</i></p> <p><i>Data System Group (DSG) – University of Central Florida.</i></p> <p><i>Taiwanese Students Association (TSA) – University of Central Florida.</i></p>	
SERVICE:	PROFESSIONAL
Delegate reviewer:	
<ul style="list-style-type: none"> - 2009 Reviewer, IEEE Vehicular Technology Society Conference (VTC). - 2009 Reviewer, International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ). - 2008 Reviewer, IEEE International Conference on Ubi-Media Computing (U-Media). - 2008 Reviewer, IEEE International Conference on Networking, Architecture, and Storage (NAS). - 2008 Reviewer, International Conference on Mobile Data Management (MDM). - 2008 Reviewer, IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC). - 2008 Reviewer, International Journal on Multimedia Tools and Application (MTAP). - 2007 Reviewer, International Journal on Multimedia Tools and Application (MTAP). - 2006 Reviewer, International Conference on Multimedia and Expo (ICME). - 2006 Reviewer, ACM Multimedia. - 2005 Reviewer, International Journal on Multimedia Tools and Application (MTAP). - 2005 Reviewer, IEEE International Conference on Data Engineering (ICDE). - 2005 Reviewer, ACM Multimedia. - 2005 Reviewer, International Conference on Communications and Computer Network (CCN). - 2004 Reviewer, IEEE Transactions on Parallel and Distributed System (TPDS). 	
Conference/ Invited Presentation:	
<ul style="list-style-type: none"> - 2009 University of Central Florida – Industry Day Poster Presentation. - 2008 International Conference on Service Computing: Industry Track. 	

- 2008 IEEE 15th International Conference on Telecommunications (ICT).
- 2008 IEEE International Conference on Networking, Architecture, and Storage (NAS).
- 2008 IEEE International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ).
- 2007 Symantec ® Cutting Edge Conference.
- 2007 IEEE Conference on Local Computer Networks (LCN).
- 2007 IEEE International Symposium on Wireless Vehicular Communication (WiVEC).
- 2006 IEEE International Symposium on Wireless Pervasive Computing.
- 2005 IEEE Intelligent Vehicles Symposium.
- 2005 World Congress on Intelligent Transportation Systems.
- 2005 International Conference on Wireless Network.
- 2004 IEEE Symposium on Computers and Communications.
- 2004 ACM Multimedia.
- 2003 International Conference on Multi-Media Modeling.

TSA President - UCF 2001.

VOLUNTEER

2007 Volunteer Teacher for Adults Learning (Teaching basic computer skill to elder).
 2006 Volunteer Teacher for Adults Learning (Teaching Chinese to kids).
 2005 Volunteer for Food Drive with Osceola Regional Medical Center.
 2004 Volunteer for Food Drive with Osceola Regional Medical Center.
 2003 Volunteer Teacher for Adults English (Teaching elder Chinese English lessons).
 2002 Volunteer Sunday School Teacher (Teaching kids between ages 6 to 8).
 2002 Volunteer Teacher for Adults English Teacher (Teaching elder Chinese English lessons).

REFERENCES

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