

Curriculum Vitae

1. Name, current academic rank, and tenure status

Lei Chen
Assistant Professor
Tenure Track (5th year under probation)

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

September 1st, 2007 – Assistant Professor

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	Auburn University, USA	Aug. 4, 2007
B.Eng.	Computer Science and Applications	Nanjing Univ. of Technology, China	June 20, 2000

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

N/A

5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improved teaching and professional competence in computer science.

CONFERENCE / WORKSHOP / SYMPOSIUM
2009-2012, Editor of book “Wireless Network Security: Theories and Applications”, to be published by Springer and Higher Education Press (China) in 2012
2012, Member of Technical Program Committee (TCP) for Third International Symposium on Networking and Wireless Communications, in conjunction with 9 th International Conference on Information Technology: New Generations (ITNG 2012)
2012, Co-chair of Pervasive Communication Security, Social Networking and Social Engineering Workshop, in conjunction with The International Conference on Computing, Networking and Communications (ICNC 2012)
2011, Member of Technical Program Committee (TCP) for the Seventh International Conference of Autonomic and Autonomous Systems (ICAS 2011)
2011, Member of Technical Program Committee (TCP) for Second International

Workshop on Interconnections of Wireless Sensor Networks (IWSN 2011) in conjunction with the 7th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS'11)

2011, Member of Technical Program Committee (TCP) for Second International Symposium on Networking and Wireless Communications, in conjunction with 8th International Conference on Information Technology: New Generations (ITNG 2011)

2010, Member of Technical Program Committee (TCP) for Workshop on Web and Pervasive Computing (WPS 2010), IEEE Globecom 2010

2010, Member of Technical Program Committee (TCP) for Workshop on Management of Emerging Networks and Services (MENS 2010), IEEE Globecom 2010

2010, Member of Technical Program Committee (TPC) for First International Workshop on Interconnections of Wireless Sensor Networks (IWSN'10), in conjunction with IEEE/ACM DCOSS 2010, June 21-23, 2010, Santa Barbara, CA, USA (http://people.hofstra.edu/Habib_M_Ammari/IWSN2010.html)

2010, Guest Panelist for Panel “Robustness and Trust in Autonomic Systems”, International Conference on autonomic and Autonomous Systems (ICAS), Cancun, Mexico, March 7 - 13, 2010

2009, Member of Technical Program Committee (TPC) for First International Symposium on Networking and Wireless Communications (Part of 7th International Conference on Information Technology: New Generations ITNG 2010)

2009, Co-chairing International Workshop on Networking Traffic, QoS, Communication Channels and Security (Part of 2009 IEEE International Conference on Ultra Modern Telecommunications)

2009, Member of Technical Program Committee (TPC) for Cognitive Networks and Dynamic Spectrum Allocation Workshop (Part of 2009 IEEE International Conference on Ultra Modern Telecommunications)

REVIEWS

2012 Pervasive Communication Security, Social Networking and Social Engineering Workshop, in Conjunction with The International Conference on Computing, Networking and Communications(ICNC 2012) (4 reviews)

2012 The 3th IEEE International Workshop on Management of Emerging Networks and Services (IEEE MENS 2011) in Conjunction with 2011 IEEE Globecom (3 reviews)

2011 The 3th IEEE International Workshop on Management of Emerging Networks and Services (IEEE MENS 2011) in Conjunction with 2011 IEEE Globecom (3 reviews)

2011 review chapters for Book Sustainable Green Computing Practices, Methodologies and Technologies (3 chapter reviews)

2011 First International Workshop on Interconnections of Wireless Sensor Networks

(IWSN'10), in conjunction with IEEE/ACM DCOSS 2010 (1 review)

2011 the Seventh International Conference of Autonomic and Autonomous Systems (ICAS 2011) (2 reviews)

2010 the Second International Symposium on Networking and Wireless Communications, in conjunction with 8th International Conference on Information Technology: New Generations (ITNG 2011) (6 reviews)

2010 the 4th Workshop on Web and Pervasive Security (IEEE WPS 2010) in Conjunction with 2010 IEEE Globecom (2 reviews)

2010 Journal of Supercomputing (1 review)

2010 the 2nd Workshop on Management of Emerging Networks and Services (IEEE MENS 2010) in Conjunction with 2010 IEEE Globecom (2 reviews)

2010 International Journal of Handheld Computing Research (IJHCR) (1 review)

2010 EURASIP Journal on Wireless Communications and Networking (1 review)

2010 First International Workshop on Interconnections of Wireless Sensor Networks (IWSN'10) (1 review)

2010 World Congress in Computer Science, Computer Engineering, & Applied Computing (WORLDCOMP'10) (1 review)

2010 International Journal of Security, CSC Journals (2 reviews)

2009 The 7th International Conference on Information Technology - New Generations (ITNG 2010) (6 reviews)

2009 International Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2009) (1 review)

2009 IEEE Network Magazine (1 review)

2009 International Workshop on Network Traffic, QoS, Communication Channels and Security, in conjunction with IEEE International Conference on Ultra Modern Telecommunications (5 reviews)

2009 Book "Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies" (1 review)

2009 World Congress in Computer Science, Computer Engineering, & Applied Computing (WORLDCOMP'09) (2 reviews)

2009 Book "Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering" (3 reviews)

2008 World Congress in Computer Science, Computer Engineering, & Applied Computing (WORLDCOMP'08) (4 reviews)

2008 Computer Communications Journal (Elsevier) (1 review)

2007 World Congress in Computer Science, Computer Engineering, & Applied Computing (WORLDCOMP'07) (4 reviews)

2007 Computer Communications Journal (the International Journal for the computer

and Telecommunications Industry) (3 reviews)

6. Consulting-list agencies and dates, and briefly describe each project.

N/A

7. Principal publications during the last five years. Given in standard bibliographic format.

DISSERTATION

Lei Chen, "On Secure Media Streaming with Path Diversity In MANETs", Auburn Theses and Dissertations, Aug. 15, 2007. (advisors: Drs. Chung-wei Lee, Kai H. Chang, and Yu Wang) <http://hdl.handle.net/10415/866>

BOOKS

B01 "Wireless Network Security: Theories and Applications", editors: Lei Chen, Jiahuang Ji, and Zihong Zhang, to be published by Springer and Higher Education Press (China) in 2012

REFEREED JOURNAL ARTICLES

- J06 Qingzhong Liu, Andrew H Sung, Zhongxue Chen, **Lei Chen**, Jianzhong Liu, Xudong Huang, Mengyu Qiao, Zhaohui Wang, and Youping Deng, "Gene selection and classification for cancer microarray data based on machine learning and similarity measures", BMC Genomics, BMC Genomics 2011, 12 (Suppl 5):S1, doi: 10.1186/1471-2164-12-S5-S1, Dec. 23, 2011. (Impact Factor: 4.21)
- J05 Ming Yang, Monica Trifas, **Lei Chen**, Lei Song, Dorothy Buenos-Aires, and Jaleesa Elston, "Secure Patient Information and Privacy in Medical Imaging", Journal of Systemics, Cybernetics and Informatics (JSCI), 8(3): 63-66, May, 2010
- J04 **Lei Chen**, and Chung-wei Lee, "Mobile Multimedia.Streaming Using Secure Multipath in Wireless Ad Hoc Networks", International Journal of Handheld Computing Research (IJHCR), 1(2): 54-74, April, 2010
- J03 Wen-Chen Hu, Yanjun Zuo, **Lei Chen**, and Hung-Jen Yang, "Contemporary Issues in Handheld Computing Research", International Journal of Handheld Computing Research (IJHCR), 1(1): 1-23, January, 2010
- J02 Ming Yang, Monica Trifas, Guillermo Francia III, and **Lei Chen**, "Cryptographic and Steganographic Approaches to Ensure Multimedia Information Security and Privacy", International Journal of Information Security and Privacy (IJISP), 3(3): 37-54, October, 2009
- J01 **Lei Chen**, Wen-Chen Hu, Ming Yang, and Lei Zhang, "Security and Privacy Issues in Secure E-mail Standards and Services", International Journal of Information Security and Privacy (IJISP), 3(3): 1-13, October, 2009

REFEREED BOOK CHAPTERS

- BC07 **Lei Chen**, Wen-Chen Hu, Ming Yang, and Lei Zhang, "Security and Privacy Issues in Secure E-Mail Standards and Services", in Security and Privacy Assurance in Advancing Technologies: New Developments, pp. 174-185, Information Science Publishing (IGI Global), 2011. ISBN-13: 978-1609602000 (editor: Hamid Nemati)
- BC06 Ming Yang, Monica Trifas, Guillermo Francia, **Lei Chen**, Yongliang Hu, "Multimedia Information Security and Privacy – Theory and Applications", Security and Privacy Assurance in Advancing Technologies: New Developments, Information Science Publishing (IGI Global), 2011. ISBN-13: 978-1609602000 (editors: Hamid R. Nemati)
- BC05 Ming Yang, Nikolaos Bourbakis, Monica Trifas, and **Lei Chen**, "Multimedia Information Security - Cryptography and Steganography", Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering, Information Science Publishing (IGI Global), 2011. ISBN-13: 978-1615207831 (editors: Hamid R. Nemati and Li Yang)
- BC04 **Lei Chen**, Wen-Chen Hu, Ming Yang, and Lei Zhang, "Applied Cryptography in E-mail Services and Web Services", Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering, Information Science Publishing (IGI Global), 2011. ISBN-13: 978-1615207831 (editors: Hamid R. Nemati and Li Yang)
- BC03 **Lei Chen**, Shaoen Wu, Yiming Ji, and Ming Yang, "Mobile and Handheld Security", Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies, pp. 313 – 327, Information Science Publishing (IGI Global), 2010. ISBN-13: 978-1615207619 (editors: Wen-Chen Hu and Yanjun Zuo)
- BC02 Wen-Chen Hu, Yanjun Zuo, Naima Kaabouch, and **Lei Chen**, "A Technological Perspective of Mobile and Electronic Commerce Systems", E-Commerce Trends for Organizational Advancement: New Applications and Methods (Advances in Electronic Commerce series), pp. 16 – 35, Information Science Publishing (IGI Global), 2010. ISBN-13: 978-1605669649 (editor: Mehdi Khosrow-Pour)
- BC01 Wen-Chen Hu, Yanjun Zuo, **Lei Chen**, and Chyuan-Huei Thomas Yang, "Adaptive Mobile Web Browsing Using Web Mining Technologies", Business Web Strategy: Design, Alignment, and Application, pp. 198 – 207, Information Science Publishing (IGI Global), 2009. ISBN-13: 978-1605660240 (editors: Latif Al-Hakim and Massimo Memmola)

REFEREED CONFERENCE PROCEEDING ARTICLES

- C19 **Lei Chen**, Narasimha Shashidhar, and Qingzhong Liu, "Scalable Secure MJPEG Video Streaming", to appear in Proceedings of the Eighth International Symposium on Frontiers of Information Systems and Network Applications (FINA-2012), in conjunction with the 26th IEEE International Conference on Advanced Information Networking and Applications (AINA-2012), Fukuoka, Japan, March 26-30, 2012. (acceptance rate: 131/445=29.4%)
- C18 Narasimha Shashidhar and **Lei Chen**, "A Phishing Model and Its applications to

- Evaluating Phishing Attacks", in Proceedings of the 2011 International Cyber Resilience Conference, August 1-2, 2011, Perth, Western Australia
- C17 Mark Wilson and **Lei Chen**, "Hashing Smartphone Serial Numbers: An ASLR Approach to Preventing Malware Attacks", in Proceedings of the 2011 International Conference on Security and Management (SAM'11) under the 2011 World Congress in Computer Science, computer Engineering and Applied Computing (WORLDCOMP 2011), Las Vegas, Nevada, USA, July 18-21, 2011 (acceptance rate: 23%)
- C16 Ming Yang, **Lei Chen**, Shengli Yuan, and Wenchen Hu, "Secure Processing and Delivery of Medical Images for Patient Information Protection", in Proceedings of the 2011 International Conference on Security and Management (SAM'11) under the 2011 World Congress in Computer Science, computer Engineering and Applied Computing (WORLDCOMP 2011), Las Vegas, Nevada, USA, July 18-21, 2011 (acceptance rate: 23%)
- C15 Alejandro Villegas and **Lei Chen**, "PPSAM: Proactive PowerShell Anti-Malware: Customizable Comprehensive Tool to Supplement commercial AVs", in Proceedings of the 2011 International Conference on Security and Management (SAM'11) under the 2011 World Congress in Computer Science, computer Engineering and Applied Computing (WORLDCOMP 2011), Las Vegas, Nevada, USA, July 18-21, 2011 (acceptance rate: 23%)
- C14 Chad Cook and **Lei Chen**, "Secure Common Web Server Session: Sharing object data across deployed Java web applications on the same web server", in Proceedings of the 2011 International Conference on Security and Management (SAM'11) under the 2011 World Congress in Computer Science, computer Engineering and Applied Computing (WORLDCOMP 2011), Las Vegas, Nevada, USA, July 18-21, 2011 (acceptance rate: 23%)
- C13 Wen-Chen Hu, Naima Kaabouch, **Lei Chen**, and Hung-Jen Yang, "Incremental Location Searching for Route Anomaly Detection", in Proceedings of the 2011 IEEE International Conference on Electro/Information Technology (EIT 2011), Mankato, May 15-17, 2011
- 2005 ~ 2010
- C12 Shengli Yuan, Balaji Raghavachari, and **Lei Chen**, "A Threat-aware Routing Algorithm for Maximum Physical-layer Path Survivability", in Proceedings of the 2010 IEEE GLOBECOM, Miami, FL, December 6 - 10, 2010 (acceptance rate: $1313/3688 = 35.6\%$)
- C11 Wen-Chen Hu, Yanjun Zuo, Naima Kaabouch, and **Lei Chen**, "An optimization neural network for smartphone data protection", in Proceedings of the 2010 IEEE International Conference on Electro / Information Technology (EIT 2010), pp. 1 - 6, Normal, Illinois, May 20-22, 2010
- C10 Yiming Ji and **Lei Chen**, "Dynamic Indoor Location Determination: Mechanisms and Robustness Evaluation", in Proceedings of the Sixth International Conference on autonomic and Autonomous Systems (ICAS 2010), pp. 70 - 77, Cancun, Mexico, March 7-13, 2010 (acceptance rate: ~ 27%)

- C09 Ziwei Ren, Wenfan Li, Qing Yang, Shaoen Wu, and **Lei Chen**, "Location Security in Geographic Ad Hoc Routing for VANETs", in Proceedings of 2009 IEEE International Conference on Ultra Modern Telecommunications (ICUMT 2009), pp. 1 - 6, St.-Petersburg, Russia, Oct. 12 - 14, 2009, (acceptance rate: 39%) (cited by 1, 3/6/2011)
- C08 Wen-Chen Hu, Hung-Jen Yang, **Lei Chen**, and Ruchitha Deshmukh "Web Content Adaptation for Internet-Enabled Mobile Handheld Devices", in Proceedings of the 42th Annual Midwest Instruction and Computing Symposium (MICS 2009), Rapid City, South Dakota, April 17 - 18, 2009
- C07 Wen-Chen Hu, Yanjun Zuo, **Lei Chen**, and Anusha Gopalakrishnan, "Contemporary Technologies and Platforms for Electronic and Mobile Commerce System Construction", in Proceedings of the 41th Annual Midwest Instruction and Computing Symposium (MICS 2008), pp. 508-522, La Crosse, Wisconsin, April 11 - 12, 2008
- C06 **Lei Chen** and Chung-wei Lee, "The Effects of Mobility and Redundancy on Wireless Video Streaming over MANETs", in Proceedings of the 22nd International Conference on Advanced Information Networking and Applications (AINA 2008), pp.949-953, GinoWan, Okinawa, Japan, March 25 - 28, 2008 (acceptance rate: $147/469 = 31.34\%$)
- C05 Daniela Marghitu, **Lei Chen**, and Jody Burks, "Technical, Pedagogical, Cultural and Social Research Study of a Traditional and Distance Learning Information Technology Minor: An Auburn University Case Study", in Proceedings of the World Conference on Integrated Design & Process Technology (IDPT 2006), San Diego, CA, June 25 - 30, 2006
- C04 **Lei Chen**, Chung-wei Lee, and Wen-Chen Hu, "Gene Intrusion on a Society of Hill-Climbers", in Proceedings of the 44th Annual ACM Southeast Conference (ACMSE 2006), Melbourne, Florida, March 10 - 12, 2006 (acceptance rate: $100/244 = 40.98\%$)
- C03 **Lei Chen**, Chung-wei Lee, and Jyh-haw Yeh, "Density-based Multipath Secure Communication over Mobile Ad Hoc Networks", in Proceedings of the 44th Annual ACM Southeast Conference (ACMSE 2006), Melbourne, Florida, March 10 - 12, 2006 (acceptance rate: $100/244 = 40.98\%$) (cited by 1, 3/6/2011)
- C02 **Lei Chen**, Chung-wei Lee, "Neighbor Stability Routing in MANETs", in Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2005), vol.4, pp. 1964-1969, March 13-17, 2005 (acceptance rate: ~ 40%) (cited by 9, 3/6/2011)
- C01 **Lei Chen**, and Chung-wei Lee, "Multi-level Secure Video Streaming over SRTP", in Proceedings of the 43rd Annual ACM Southeast Conference (ACMSE 2005), vol. 2, Kennesaw, Georgia, March 18 - 20, 2006 (acceptance rate: 60%)

8. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

2010, Enhancement Research Grant (ERG), Sam Houston State University "Secure Routing for Real-Time Media Streaming in MANETs", **\$15,000**

2009, Faculty Research Grant (FRG), Sam Houston State University "Securing Real-time Multimedia Data in MANETs", **\$5,000**

- 9. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.**

	Courses	Hours	Class Size
Spring 2012	DFSC 4317.01 Information Security	3	20
	DFSC 5317.01 Digital Security	3	5
	DFSC 5319.01 Network Security I	3	16
Fall 2011	DFSC 2317.02 Network Security	3	12
	DFSC 5325.01 Organizational System Security	3	16
	DFSC 5327.01 Digital Forensics Investigation	3	4
Summer 2011	DFSC 5319.01 Network Security	3	6
Spring 2011	CS 146.03 Introduction to Algorithms and Programming	3	20
	CS 146.08 Introduction to Algorithms and Programming (Lab)	1	20
	CS 534.01 Operating System Security	3	11
	DF 491.01 Information Security	3	22
Fall 2010	DF 138.02 Introduction to Digital Forensics and Information Assurance	3	12
	DF 291.01 Network Security	3	22
	DF 291.02 Network Security	3	10

- 10. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.**

Fall 2011 Chair of Faculty Search Committee
 Fall 2011 Undergraduate Curriculum Committee
 Spring 2011 Undergraduate Curriculum Committee
 Fall 2010 Undergraduate Curriculum Committee
 Spring 2010 Faculty Search Committee
 Spring 2010 Undergraduate Curriculum Committee

- 11. Number of students for which you served as academic advisor: 7**

12. Estimate the percentage of your time devoted to scholarly and/or research activities: 40 %. Please give a brief description of your major research and scholarly activities:

Research Interests

- Information and Network Security
- Wireless Computing
- Mobile Ad Hoc Networks (MANETs)
- Multimedia Networking

Actively engaged in research on the above topics; publish papers, book chapters and funding proposals.

13. If you are not a full-time faculty member, state what percentage of full-time you work: N/A % Percentage of this time allocated to the computer science program being evaluated: N/A %.