

Zygmunt J. Haas

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I. GENERAL INFORMATION

(i) Personal Information

Name: Zygmunt J. Haas

Titles: ① Professor and Distinguish Chair in Computer Science (Univ. of Texas at Dallas)
② Professor Emeritus (Cornell University);

Professional Contact Information:

② Cornell University:

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(ii) Research Interests

*** Wireless and Mobile Systems and Networks**

- * Wireless Communications
- * Communication Protocols for Wireless Networks
- * Security in mobile and wireless networks
- * Ad Hoc and Sensor Networking Technologies
- * Energy-efficient Protocols

*** Big Data Systems**

- * Security and Privacy of Big Data Systems

*** Information Assurance and Network Security**

*** Cyber-Physical Systems (CPS) and Internet of Things**

*** Modeling of Communication Systems**

- * Complex Networks
- * Stochastic Routing

*** Design, Modeling, and Implementation of Cross-layer Protocols and Systems**

*** Cross-Disciplinary Research Initiatives**

(iii) Education/Degrees (in reverse chronological order)

- * **Ph.D.**, Electrical Engineering, Stanford University, CA, May 1988
Advisor: Prof. David Cheriton, Computer Science, Stanford University
Thesis: “Packet Switching in Fiber-Optic Networks”
- * **M.Sc.**, (*Summa Cum Laude*) Electrical Engineering, Tel-Aviv University, Israel, Feb. 1985
- * **B.Sc.**, (*Summa Cum Laude*) Electrical Engineering, Technion (IIT), Israel, August 1979

(iv) Employment History (in reverse chronological order)

- 8/13 – present: University of Texas at Dallas, Computer Science Department
Erik Jonsson School of Engineering and Computer Science
Richardson, TX, 75080
Title: Professor and Distinguish Chair in Computer Science
- 8/95 – present: Cornell University, School of Electrical and Computer Engineering, Ithaca, NY.,
Title: Professor Emeritus (as of 10/13)
- 7/2004 –10/2013: Tenured Full Professor
11/1998 - 6/2004: Tenured Associate Professor
8/1995 - 10/1998: Associate Professor
- 5/10 – 6/11: National Science Foundation, Engineering Directorate, Arlington, VA; **Title:** Program Director; **Comment:** on leave from Cornell University
- 09/94 - 7/95: AT&T Business Communication Services, Murry Hill, NJ; **Title:** Member of Technical Staff
- 05/88 - 7/95: AT&T Bell Laboratories, Network Research, Holmdel, NJ; **Title:** Member of Technical Staff
- 09/85 - 5/88: Electrical Eng. Dept., Stanford University, CA, **Title:** Research Assistant
- 10/79 - 8/85: R&D Department of Government of Israel, Tel-Aviv, Israel; **Title:** Engineer
- 10/81 - 6/85: Electrical Eng. Dept., Tel-Aviv University, Israel; **Title:** Teaching Assistant
- 8/79 - 10/79: Philips Research Laboratories, Eindhoven, Holland; **Title:** Engineer

(v) Selected Awards and Honors

- * 2016 IEEE ComSoc AHSN Recognition Award (“for outstanding contributions to securing ad hoc and sensor networks”) presented at *IEEE Globecom 2016*, December 5, 2016, Washington DC (*AHSN Recognition Award*); **Cornell’s faculty awards**
- * Status of “Professor Emeritus” at Cornell University (as of October 15, 2013)
- * **2012 IEEE ComSoc WTC Recognition Award** (the award recognizes individuals for “outstanding technical contributions in the field and for his service to the scientific and engineering communities”) presented at *IEEE Globecom 2012*, December 5, 2012, Anaheim, CA (*WTC Recognition Awards*)
- * “Best Paper Award” for the paper “**Collaborating with Correlation for Energy Efficient WSN,**” [M. Nikolov and Z.J. Haas], *First ACM Annual International*

Workshop on Mission-oriented Wireless Sensor Networking (ACM MiSeNet 2012), in conjunction with *ACM MobiCom 2012*, Istanbul, Turkey, August 26, 2012

- * IEEE Distinguished Lecturer Tour, Scandinavian Countries, May 25, 2009 – June 5, 2009
- * Elevation to *IEEE Fellow*, January 2007
- * Promotion to the rank of *Full Professor*, School of ECE, Cornell University, July 1, 2004
- * Distinguish Lecturer, IEEE Communications Society, (two terms) 01/2004 - 12/2005, 01/2005 - 12/2007
- * IEEE Distinguished Lecturer Tour, Australia, September 26-October 3, 2005
- * Expert Lecturer, IEEE Communications Society, 2002-2004
- * Michael Tien'72 Excellence in Teaching Award, Cornell College of Engineering for 2002-2003 academic year, November 2003
- * “Best Paper Award” for the paper “Optimal Resource Allocation for UWB Wireless Ad Hoc Networks,” [C. Zou and Z.J. Haas], IEEE 16th International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC'05)
- * Michael Tien'72 Excellence in Teaching Award, Cornell College of Engineering for 2002-2003 academic year, November 2003
- * “Highly Commended Paper Award” for the paper “Performance Evaluation of the Modified IEEE 802.11 MAC for Multi-Channel Multi-Hop Ad Hoc Network,” [J. Li, Z.J. Haas, M. Sheng, and Y. Chen], IEEE International Conference on Advanced Information Networking and Applications (AINA 2003)
- * Elected Chair of the IEEE Technical Committee on Personal Communications (TCPC), Jan. 2001 – Nov. 2002 (previously elected Vice Chair and Secretary)
- * Michael Tien'72 Excellence in Teaching Award, Cornell College of Engineering for 1999-2000 academic year, September 2000
- * Numerous *Marquis Who's Who* citations
- * Election to *Indefinite Tenure*, Cornell University, October 1998
- * Michael Tien'72 Excellence in Teaching Award, Cornell College of Engineering for 1996-1997 academic year, September 1997
- * AT&T Foundation Award, September 1995
- * President Award, Technion, Israel (1976, 1977, 1978, and 1979)
- * B.Sc. with “*Summa Cum Laude*,” August 1979
- * M.Sc. with “*Summa Cum Laude*,” February 1985

(vi) Memberships in Professional Societies

- * IEEE Communications Society (ComSoc)
- * IEEE Vehicular Technology
- * Association for Computing Machinery (ACM)
- * Special Interest Group on Mobile Communications (SIGMOBILE)

(vii) Membership in Graduate Fields (date awarded)

- * Electrical and Computer Engineering, Cornell University, July 1, 1995
- * Computer Science, Cornell University, February 2001
- * Center for Applied Math, Cornell University, April 2003
- * Electrical Engineering, University of Texas at Dallas, April 4, 2015

II. TALKS, INVITED TALKS, & KEYNOTE SPEECHES

Invited and Keynote Talks (in reverse chronological order)

- * Z.J. Haas, “Challenges of Internet of Things,” Spring 2017 Computer Science Distinguished Lecture Series, Norfolk State University, Computer Science Department, April 6, 2017 (plaque)
- * Z.J. Haas, “Research Directions of the Wireless Networks Lab,” Computer Science Department, Wesleyan University, Fort Worth, TX, March 31, 2016
- * Z.J. Haas, “Challenges of Internet of Things,” Fourth Annual International Workshop on Mission-Oriented Wireless Sensor Networking (*MiSeNet 2015*), Dallas, TX, October 19, 2015
- * Z.J. Haas, “Security of Big Data,” Third Annual International Workshop on Mission-Oriented Wireless Sensor Networking (*MiSeNet 2014*), Philadelphia, PA, October 27, 2014
- * Z.J. Haas, “Big Data and Its Security Implications,” National Taiwan University (NTU), Taipei, Taiwan, December 16, 2013
- * Z.J. Haas, “Big Data and Its Security Implications,” National Sun Yat-sen University, Kaohsiung, Taiwan, December 18, 2013
- * Z.J. Haas, “Big Data and Its Security Implications,” National Tsing Hua University, Hsinchu, Taiwan, December 19, 2013
- * Z.J. Haas, “Big Data and Security Implications,” Keynote Speech, *EUSPN’13, 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks*, Niagara Falls, Ontario, Canada, October 21-24, 2013
- * Z.J. Haas, “Security of Big Data,” at the Cornell Engineering Alumni Association conference, Washington, DC, May 13, 2013
- * Z.J. Haas, “Stochastic Routing,” DIMACS Workshop on Connectivity and Resilience for Large-Scale Networks, Rutgers University, Piscataway, NJ, April 12-13, 2012
- * Z.J. Haas, “Information Assurance for Sensor Networks,” Winter 2012 CIS Distinguished Lecture Series, Computer and Information Science Department, College of Engineering and Computer Science, University of Michigan-Dearborn, March 16, 2012
- * Z.J. Haas, “Information Assurance for Sensor Networks,” Invited Talk, Department of Electrical Engineering and Computer Science, UC Berkeley, Berkeley, CA, September 7, 2011
- * Z.J. Haas, “Information Assurance for Vehicular Sensor-based Networks,” Closing Keynote, 4th IEEE International Symposium on Wireless Vehicular Communications (*WiVeC’11*), San Francisco, CA, September 6, 2011
- * Z.J. Haas, “Information Assurance for Sensor Networks,” Invited Talk, Department of Electrical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan, August 15, 2011 (program)
- * Z.J. Haas, “New Directions and Challenges in Information Assurance with Applications for Sensor Networks,” Invited Talk, Department of Electrical Engineering, NCTU, Hsinchu, Taiwan, August 12, 2011

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