

Zygmunt J. Haas

<u>Section #</u>	<u>Title</u>	<u>Pages</u>
I.	<i>General Information</i>	2 – 4
II.	<i>Talks, Invited Talks, Keynote Speeches</i>	5 – 9
III.	<i>Publications</i>	10 – 26
(i)	<i>Refereed Journal & Archival Publications</i>	10 – 16
(ii)	<i>Refereed Conference & Workshop Papers</i>	16 – 24
(iii)	<i>Books & Book Chapters</i>	24 – 25
(iv)	<i>Miscellaneous Publications</i>	26
IV.	<i>Teaching & Advising</i>	27 – 31
(i)	<i>Graduate Students</i>	27
(ii)	<i>Post Docs and Visiting Scholars</i>	28 – 29
(iii)	<i>Undergraduate Research/Advising</i>	29
(iv)	<i>Master of Engineering Project/Research Advising</i>	29
(v)	<i>Courses Taught</i>	29 – 31
V.	<i>Professional & Scientific Service</i>	32 – 39
(i)	<i>University Committees</i>	32 – 33
(ii)	<i>Editorial Service</i>	33
(iii)	<i>Service to the Scientific Community at Large</i>	33 – 35
(iv)	<i>Technical Program Committees</i>	35 – 39
VI.	<i>Patents: Granted & Pending</i>	40 – 41

I. GENERAL INFORMATION

(i) Personal Information

Name: Zygmunt J. Haas

Titles: ① Professor and Distinguished Chair in Computer Science (Univ. of Texas at Dallas)

② Professor Emeritus (Cornell University; Electrical and Computer Engineering)

Professional Contact Information:

② Cornell University:

Address: School of Elect. & Comp. Eng, Ithaca, NY 14853

E-mail: zhaas@cornell.edu

URL: <http://people.ece.cornell.edu/~haas>

Lab URL: <http://wnl.ece.cornell.edu>

① University of Texas at Dallas

Address: Erik Jonsson School of Engineering and Computer Science

ECSS Room 4.405

Richardson, TX 75080

Phone: (972)-883-3571

E-mail: haas@utdallas.edu

URL: <http://www.utdallas.edu/~haas>

Private Contact Information:

E-mail: haas@acm.org

(ii) Research Interests

* Information Assurance and Network Security

* 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

* 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**

- * Fellow of the *European Alliance for Innovation (EAI)*, May 20129
- * Fellow of *The Institute of Engineering and Technology (IET)*, March 2019
- * 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 + Affiliate Membership (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, "Reconfigurable Distributed MIMO for Physical-layer Security in Mobile Networks," *ECE Seminar Series*, Stevens Institute of Technology, March 27, 2019 \(announcement\)](#)
- * [Z.J. Haas, "Reconfigurable Distributed MIMO for Physical-layer Security in Mobile Networks," *Invited Talk*, Joint ECE/CS Seminar, Stony Brook University, February 28, 2019 \(announcement\)](#)
- * [Z.J. Haas, "Reconfigurable Distributed MIMO for Physical-layer Security in Mobile Networks," *ACCESS Distinguished Lecture*, KTH Royal Institute of Technology, Stockholm, Sweden, September 13, 2018 \(announcement\)](#)
- * [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](#)

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