

# Zygmunt J. Haas

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## 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](mailto: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](mailto:haas@utdallas.edu)

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

#### Private Contact Information:

E-mail: [haas@acm.org](mailto: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 16<sup>th</sup> 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, 4<sup>th</sup> 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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