Zygmunt J. Haas Curriculum Vitae

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*

(ii) Main 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

✳ **Information Assurance and Network Security**

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

✳ **Design, Modeling, and Implementation of Multimedia Protocols and Systems**

✳ **Modeling of Communication Systems**
   ✳ Complex Networks
   ✳ Stochastic Routing

✳ **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
                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

           1/03-05/03: Visiting Fellow, Princeton University, EE Department

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 *Association for Computing Machinery (ACM),* 2021 (UTD announcement)
✱ "How 5G Technology May Improve and Impact Our Lives" *Authority Magazine* Interview, June 4, 2021 (link) (UTD Announcement)
✱ Fellow of the AAIA (Asia-Pacific Artificial Intelligence Association), 6/2021 (9/28/2021)
✱ Best Paper Award for the paper [Z.J. Haas and Z. Zheng, "Engineering a Network in the Sky," The 35th International Conference on Information Networking, (*ICOIN21*), January 13−16, 2021, Jeju Island, S. Korea] (UTD announc.) (Cornell announc.)
✱ *Guide2Research* Scientists 2020 Ranking: 315th (US) and 495 (Worldwide)
✱ Distinguished Member of the European Alliance for Innovation (EAI), 2021
✱ Fellow of the *European Alliance for Innovation (EAI),* May 2019 (Fellow selection)
✱ Fellow of *The Institute of Engineering and Technology (IET),* March 2019
✱ "5 Things to Know About 5G" *UT Dallas Magazine*, October 14, 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
✱ Elevation to *IEEE Fellow*, January 2007, *"for contribution to wireless and mobile ad hoc networks"* (award letter)
✱ 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)***
- ✳ **Distinction of *Classic Paper by Google Scholar* for the paper "Gossip-based Ad Hoc Routing," *IEEE/ACM Transactions on Networking,* vol.14, no.3, June 2006**
- ✳ **"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 – June 5, 2009**
- ✳ **Promotion to the rank of *Full Professor,* School of ECE, Cornell Univ., 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), ICC Berlin, Germany, September 11-14, 2005**
- ✳ **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**
- ✳ **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 (letter) (banquet)**
- ✳ **AT&T Foundation Award, September 1995**
- ✳ **President Award, Technion, Israel (1976, 1977, 1978, and 1979)**
- ✳ **B.Sc. w/ "*Summa Cum Laude,*" Aug. 1979; M.Sc. w/ "*Summa Cum Laude,*" Feb. 1985**

(vi) <u>Memberships in Professional Societies</u>
- ✳ **IEEE Communications Society (ComSoc)**
- ✳ **Association for Computing Machinery (ACM)**
- ✳ **Special Interest Group on Mobile Communications (SIGMOBILE)**

(vii) <u>Membership in Graduate Fields + Affiliate Membership</u> (date awarded)
- ✳ **Electrical and Computer Engineering, Cornell University, August 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)

* Zygmunt J. Haas, "Reconfigurable Distributed MIMO for Physical-layer Security in Mobile Networks," *Invited Talk,* 40th IEEE Sarnoff Symposium, NJIT, Newark, NJ, Sep. 23, 2019 (Invited Talks) (plaque)

* 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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