

# Zygmunt J. Haas

## June 27, 2017

<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 – 25
(i)	<i>Refereed Journal &amp; Archival Publications</i>	10 – 16
(ii)	<i>Refereed Conference &amp; Workshop Papers</i>	16 – 23
(iii)	<i>Books &amp; Book Chapters</i>	23 – 24
(iv)	<i>Miscellaneous Publications</i>	25
IV.	<i>Teaching &amp; Advising</i>	26 – 30
(i)	<i>Graduate Students</i>	26
(ii)	<i>Post Docs and Visiting Scholars</i>	27 – 28
(iii)	<i>Undergraduate Research/Advising</i>	28
(iv)	<i>Master of Engineering Project/Research Advising</i>	28
(v)	<i>Courses Taught</i>	28 – 30
V.	<i>Professional &amp; Scientific Service</i>	31 – 37
(i)	<i>University Committees</i>	31
(ii)	<i>Editorial Service</i>	32
(iii)	<i>Service to the Scientific Community at Large</i>	32 – 34
(iv)	<i>Technical Program Committees</i>	34 – 37
VI.	<i>Patents: Granted &amp; Pending</i>	38 – 39

## 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:

Address: School of Elect. & Comp. Eng, 324 Frank Rhodes Hall, Ithaca, NY 14853

Phone: (607)-255-3454

E-mail: [haas@ece.cornell.edu](mailto:haas@ece.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:

Phone: (607) 592-0467

Fax: (888) 990-1956

E-mail: [haas@acm.org](mailto:haas@acm.org)

### (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 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 (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, 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**
- \* **Z.J. Haas, “Information Assurance for Vehicular Sensor-based Networks,” Closing Keynote, 4<sup>th</sup> 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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