

# ***CURRICULUM VITAE***

*(Updated on February 2014)*

## **Zygmunt J. Haas**

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## I. GENERAL INFORMATION

### (i) Personal Information

Name: Zygmunt J. Haas

Title: Professor Emeritus, Cornell University;

Professor and Distinguished Chair in Computer Science, Univ. of Texas in Dallas

#### Professional Contact Information:

\* 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>

\* 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

- \* Secure protocols
- \* Communications Protocols
- \* Ad Hoc and Sensor Networking Technologies
- \* Energy-efficient Protocols

\* Cyber-Physical Systems (CPS)

\* Modeling of Communication Systems

- \* Complex Networks
- \* Stochastic Routing

\* Biologically-inspired Systems

- \* Biologically-inspired Network Protocols and Algorithms
- \* Modeling of Biological Phenomena
- \* Communication Systems for in-vivo Applications

\* Information Assurance and Network Security

\* 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  
Richards, TX, 75080  
**Title:** Professor and Distinguished 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**

- \* 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
- \* Distinguished 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), January 2001 - November 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
- \* Applied Math, Cornell University, April 2003

## II. TALKS & INVITED TALKS

### Invited and Keynote Talks (in reverse chronological order)

- \* [Z.J. Haas, "Big Data and Security Implications," invited talks delivered at: \(1\) National Taiwan University \(NTU\), Taipei, Taiwan, December 16, 2013; \(2\) National Sun Yat-sen University, Kaohsiung, Taiwan, December 18, 2013; \(3\) 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](#)
- \* [Z.J. Haas, "New Directions and Challenges in Information Assurance with Application to Sensor Networks," Invited Talk, Department of Electrical Engineering, Boston University, July 14, 2011](#)
- \* [Z.J. Haas, "Information Assurance and Sensor Network Security," Department of Electrical and Computer Engineering, University of Florida, Gainesville, FL, April 14, 2011](#)
- \* [Z.J. Haas, "Information Assurance and Sensor Network Security," Computer and Information Sciences department, Temple University, Philadelphia, PA, March 31, 2011](#)
- \* [Z.J. Haas, "Information Assurance for Sensor Networks," Keynote Speech, IEEE PerCom 2011 \(Information Quality and Quality of Service \(IQ2S\) Workshop\), Seattle, WA, March 21, 2011](#)
- \* [Z.J. Haas, "Stochastic Routing for Delay Tolerant Networks," Invited Talk, IEEE Communications Society North Jersey Chapter, NJIT Department of ECE, Newark, NJ, November 29, 2010](#)

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