# CURRICULUM VITAE

(Updated on February 2014)

# Zygmunt J. Haas

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# I. GENERAL INFORMATION

# (i) Personal Information

Name: Zygmunt J. Haas

**<u>Title:</u>** 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

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**\*** University of Texas at Dallas

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## (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.,

**<u>Title:</u>** 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; <u>Title:</u> Program Director; <u>Comment:</u> on leave from Cornell

University

09/94 - 7/95: AT&T Business Communication Services, Murry Hill, NJ; <u>Title:</u> 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; <u>Title</u>: 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 <a href="IEEE Globecom 2012">IEEE Globecom 2012</a>, 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

## <u>Invited and Keynote Talks</u> (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, 4th 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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