

# Zygmunt J. Haas

<u>Section #</u>	<u>Title</u>	<u>Pages</u>
<b>I.</b>	<i>General Information</i>	2 – 4
<b>II.</b>	<i>Talks, Invited Talks, Keynote Speeches</i>	5 – 9
<b>III.</b>	<i>Publications</i>	10 – 26
(i)	<i>Refereed Journal &amp; Archival Publications</i>	10 – 16
(ii)	<i>Refereed Conference &amp; Workshop Papers</i>	16 – 24
(iii)	<i>Books &amp; Book Chapters</i>	24 – 25
(iv)	<i>Miscellaneous Publications</i>	26
<b>IV.</b>	<i>Teaching &amp; Advising</i>	27 – 31
(i)	<i>Graduate Students</i>	27
(ii)	<i>Post Docs and Visiting Scholars</i>	28 – 29
(iii)	<i>Undergraduate Research/Advising</i>	29
(iv)	<i>Master of Engineering Project/Research Advising</i>	29
(v)	<i>Courses Taught</i>	29 – 31
<b>V.</b>	<i>Professional &amp; Scientific Service</i>	32 – 39
(i)	<i>University Committees</i>	32 – 33
(ii)	<i>Editorial Service</i>	33
(iii)	<i>Service to the Scientific Community at Large</i>	33 – 35
(iv)	<i>Technical Program Committees</i>	35 – 39
<b>VI.</b>	<i>Patents: Granted &amp; Pending</i>	40 – 41

## 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](#)

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.