



SCIENTIFIC ADVISOR, AiRANACULUS

Ken Byers Chair Professor Emeritus in
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EDUCATION

PhD Electrical & Computer Engineering,

- University of Erlangen-Nürnberg, Germany, 1984.

MS Electrical & Computer Engineering,

- University of Erlangen-Nürnberg, Germany, 1981.

BS Electrical & Computer Engineering,

- University of Erlangen-Nürnberg, Germany, 1978.

HONORS

1. **Principal Investigator and Capture Team Lead on many research Government R&D projects - NSF, DoD, NASA and private companies.**
2. **Received 10 patents**
3. **Gave hundreds of keynote speeches all over the world**
4. **Published 6 textbooks**
5. **2018 ACM WUWNET Pioneer Award** by the ACM International Conference on Underwater Networks & Systems (WUWNet'18) with citation "in recognition of all the help in promoting the International Conference on Underwater Networks & Systems and the sound technical contribution to the field".
6. **2017 IEEE ComSoc TCCN Recognition Award** by the IEEE ComSoc Technical

Committee on Cognitive Networks (TCCN) with citation "*for pioneering contributions to spectrum sensing, spectrum sharing algorithms and communication protocols for cognitive radio networks*".

7. **2016 Milestone Award** from ACM NanoCom, October 2016.
8. **2014 ACM MSWIM Reginald A. Fassenden Award** with the citation "For pioneering contributions for modeling and analysis of cellular and multi-hop wireless communication systems", September 2014.
9. **2014 Humboldt Research Award from German Humboldt Foundation in November 2013.**
10. **2011 TUBITAK (Turkish National Science Foundation) Exclusive Award** with the citation "For his outstanding contributions to the advancement of scholarship/research at international level," Dec. 2011.
11. **2011 IEEE Computer Society W. Wallace McDowell Award** with the citation "For pioneering contributions in wireless sensor network architectures and communication protocols," May 2011.
12. **2010 IEEE Communications Society Ad Hoc and Sensor Networks Technical Committee (AHSN TC) Technical Recognition Award** with the citation: "For pioneering contributions to wireless sensor networks and wireless mesh networks", December 2010.
13. **Best Paper Award** for "Deployment Algorithms for Wireless Underground Sensor Networks using Magnetic Induction" in the IEEE Global Communications Conference (Globecom), December 2010.
14. **Best paper award** for "Interferer Classification, Channel Selection and Transmission Adaptation for Wireless Sensor Networks" in the Ad Hoc and Sensor Networks (AHSN) symposium at IEEE ICC, June 2009.
15. **2009 Georgia Tech Outstanding Doctoral Thesis Advisor Award** for his 20+ years of service and dedication to Georgia Tech and producing outstanding PhD students.
16. **2009 ECE Distinguished Mentor Award** by the Georgia Tech School of Electrical and Computer Engineering Faculty Honors Committee.
17. **2005 Distinguished Faculty Achievement Award** from School of Electrical and Computer Engineering at Georgia Tech", March 18, 2005.

18. **2004 Institute Outstanding Faculty Research Author Award**, from Georgia Tech, April 7, 2004.
19. **2003 ACM SIGMOBILE AWARD** with the citation: "For pioneering contributions in the area of mobility and resource management for wireless communication networks", September 2003.
20. **2003 Best Tutorial Paper Award (IEEE Communications Society)**, May 2003, for his paper entitled: "A Survey on Sensor Networks", IEEE Communications Magazine, Vol. 40, No. 8, pp. 102-114, August 2002.
21. **IEEE 2002 HARRY M. GOODE MEMORIAL AWARD**: Citation: For significant and pioneering contributions to advanced architectures and protocols for wireless and satellite networking.
22. **ACM Fellow (1996)**: Citation: For fundamental research contributions to finite capacity queuing network models, performance evaluation of Time Warp parallel simulations, traffic control in ATM Networks, and mobility management in wireless networks.
23. **IEEE Fellow (1996)** (IEEE Computer Communications Society): Citation: For fundamental research contributions to Performance Analysis of Computer Communication Networks.
24. **IEEE 1997 Leonard G. Abraham Prize** (Best original paper published in the IEEE Journal on Selected Areas in Communications (JSAC) in 1996).
25. **Best Paper Award from IEEE Journal of Selected Areas in Communications (JSAC)** (January 1996).
26. **ACM Distinguished Lecturer Award** in 1994.
27. **Federico Santa Maria Medal** from Universidad Tecnica Federico Santa Maria, Chile. (1986).
28. **Advised 48 PhD students; 20 Master students; 20 Post Docs**

AREAS OF EXPERTISE

All types of wireless communication paradigms; all layers from protocol stack from physical layer to applications layer; protocols and algorithms. On the cross roads of wireless communications and networking and signal processing.

WORK EXPERIENCE

- **Ken Byers Chair Professor in Telecom**, Chair of the Telecom Group, Georgia Institute of Technology, Atlanta, GA. (2000 - present)
- **Professor, Georgia Institute of Technology**, Atlanta, GA. (1995 - 1999)
- **Associate Professor**, Georgia Institute of Technology, Atlanta, GA. (1989 - 1994)
- **Assistant Professor**, Georgia Institute of Technology, Atlanta, GA. (1985 - 1989)
- **Research Engineer**, University of Erlangen-Nürnberg, Germany. (1981 - 1985)
- **President and CEO of TRUVA Inc.** (Consulting Company). (1989-present)
- **CTO of AIRANACULUS (R&D)**, (2020-present)

BIO

Dr. Ian F. Akyildiz served as the **Ken Byers Chair Professor** with the School of Electrical and Computer Engineering (ECE) at **Georgia Institute of Technology (Georgia Tech)**, the **Director of the Broadband Wireless Networking (BWN) Laboratory** and Chair of the Telecommunications Group at the School of ECE at Georgia Tech. According to Google Scholar, his **H-index is 122** and the total number of **citations to his papers is 116K+**. His research interests are in **Terahertz Communications, Nanonetworks, Internet of Nano Things, Internet of Bio Nano things, 5G/6G Wireless Systems, Internet of Space Things/CUBESATs, and Wireless Sensor Networks in Challenged Environments**. Among his many honors, Dr. Akyildiz is an **IEEE FELLOW (1996)** with the citation: "For contributions to performance analysis of computer communication networks". Dr. Akyildiz is an **ACM FELLOW (1997)** with the citation: "For fundamental research contributions in: finite capacity queueing network models; performance evaluation of Time Warp parallel simulations; traffic control in ATM networks, and mobility management in wireless networks". He received the **"Don Federico Santa Maria Medal"** for his services to the Universidad of Federico Santa Maria in Chile in 1986. He served as a National Lecturer for ACM from 1989 until 1998 and received the ACM Outstanding Distinguished Lecturer Award for 1994. Dr. Akyildiz received the **1997 IEEE Leonard G. Abraham Prize award** (IEEE Communications Society) for his paper entitled "Multimedia Group Synchronization Protocols for Integrated Services Architectures" published in the IEEE Journal of Selected Areas in Communications (JSAC) in January 1996.