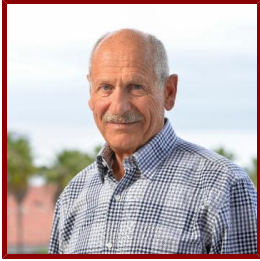


Stanford



Fouad Tobagi

Professor of Electrical Engineering

Bio

BIO

Tobagi works on network control mechanisms for handling multimedia traffic (voice, video and TCP- based applications) and on the performance assessment of networked multimedia applications using user-perceived quality measures. He also investigates the design of wireless networks, including QoS-based media access control and network resource management, as well as network architectures and infrastructures for the support of mobile users, all meeting the requirements of multimedia traffic. He also investigates the design of metropolitan and wide area networks combining optical and electronic networking technologies, including topological design, capacity provisioning, and adaptive routing.

ACADEMIC APPOINTMENTS

- Professor, Electrical Engineering

PROFESSIONAL EDUCATION

- PhD, UCLA (1974)

Teaching

COURSES

2018-19

- Internet Routing Protocols and Standards: EE 384A (Win)
- Introduction to Computer Networks: EE 284 (Aut)
- Introduction to Internet of Things: EE 284A (Spr)

2017-18

- Internet Routing Protocols and Standards: EE 384A (Win)
- Introduction to Computer Networks: EE 284 (Aut)
- Wireless Local and Wide Area Networks: EE 384C (Spr)

2016-17

- Internet Routing Protocols and Standards: EE 384A (Win)
- Introduction to Computer Networks: EE 284 (Aut)
- Multimedia Communication over the Internet: EE 384B (Spr)

2015-16

- Internet Routing Protocols and Standards: EE 384A (Win)

- Introduction to Computer Networks: EE 284 (Aut)
- Wireless Local and Wide Area Networks: EE 384C (Spr)

STANFORD ADVISEES

Master's Program Advisor

Noah Gamboa

Publications

PUBLICATIONS

- **Cross-tier Interference Mitigation for Two-tier OFDMA Femtocell Networks with Limited Macrocell Information** *IEEE Global Telecommunications Conference (GLOBECOM 2010)*
Kim, M., Je, H. W., Tobagi, F. A.
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- **Optical network design to minimize switching and transceiver equipment costs** *8th International Workshop on Optical Networking Technologies*
Chen, B. K., Tobagi, F. A.
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Cho, Y., Kim, M., Tobagi, F. A.
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- **Throughput analysis of a path in an IEEE 802.11 Multihop Wireless Network** *IEEE Wireless Communications and Networking Conference*
Hira, M. M., Tobagi, F. A., Medepalli, K.
IEEE.2007: 441–446
- **Network topology design to optimize link and switching costs** *IEEE International Conference on Communications (ICC 2007)*
Chen, B. K., Tobagi, F. A.
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- **Interactions Between the Physical Layer and Upper Layers in Wireless Networks, and their Impact on Applications**
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- **Towards performance modeling of IEEE 802.11 based wireless networks: A unified framework and its applications** *IEEE INFOCOM 2006 Conference/25th IEEE International Conference on Computer Communications*
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