

Tal Lavian, Ph.D.

Expert Services in Internet Network Communications

Technology consulting: Network communications, telecommunications, and Internet protocols

Scientist, educator and technologist with over 25 years of experience

- Litigation support, technology education, and consulting
- Named inventor on over 80 issued and filed patents
- Co-author of over 25 scientific publications, journal articles, and peer-reviewed papers
- Industry Fellow and Lecturer at UC Berkeley Engineering CET

Education

- **Ph.D.**, Computer Science specializing in networking and communications, UC Berkeley
- **M.Sc.**, Electrical Engineering, Tel Aviv University
- **B.Sc.**, Computer Science, Tel Aviv University

Expertise

Network communications, telecommunications, and Internet Protocol technologies:

- **Routing/switching:** LAN; WAN; VPN; routing protocols; RIP; BGP; MPLS; OSPF; IS-IS; DNS; QoS; switching; packet switching; network infrastructure; network communication architectures
- **Communication networks:** Internet Protocols; TCP/IP suite; TCP; UDP; IP; VoIP; Ethernet; network protocols; network software applications; Data Link, Network, and Transport Layers (L2, L3, L4)
- **Mobile Wireless:** Wireless LAN; 802.11; cellular systems; mobile devices; smartphone technologies
- **Internet Software:** Internet software applications; Internet protocols; distributed computing; Web applications; FTP; HTTP; Java; C; C++; client server; file transfer; multicast; streaming media

Litigation Support Services

- Expert witness in Federal courts, USPTO, and the ITC (over 30 cases)
- Expert witness in USPTO reexamination, interference, and *inter partes* review (IPR)
- Expert reports, depositions, and courtroom testimonies
- Skilled articulation of technical material for both technical and non-technical audiences
- Product and technology analysis, patent portfolios, claim charts, patentability research
- Litigation support and technology education in patent disputes and patent reexaminations
- Past cases involved Google, Cisco, Juniper, HP, Ericsson, Microsoft, Apple, and Samsung

Research

- Member of UC Berkeley's RAD Lab—SAHARA and ICEBERG research projects
- DARPA Principal Investigator—DWDM-RAM and Active Networks projects
- Leader of a network communications research project for an undisclosed US federal agency
- Scientist at Nortel Research Labs—bridging between academic and industrial research
- Technical Chair of Nortel's EDN Patent Committee

Professional Affiliations

- IEEE Senior Member, IEEE Communications Society, IEEE Computer Society, IEEE SMCS, ACM, SIGCOM, SIGWEB, IEEE-CNSV, and the Internet Society

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