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Professor Gregory W. Wornell is a principal investigator in the Research Laboratory of Electronics (RLE) at the Massachusetts Institute of Technology (MIT). He received the B.A.Sc. degree (with honors) from the University of British Columbia, Canada, and the S.M. and Ph.D. degrees from the Massachusetts Institute of Technology, all in Electrical Engineering and Computer Science, in 1985, 1987 and 1991, respectively.

Since 1991 he has been on the faculty at MIT, where he is Professor of Electrical Engineering and Computer Science. At MIT he leads the Signals, Information, and Algorithms Laboratory within the Research Laboratory of Electronics, and co-directs the MIT Center for Wireless Networking. He is also chair of Graduate Area I (Systems, Communication, Control, and Signal Processing) within the EECS department's doctoral program, and a member of the MIT Computational and Systems Biology Initiative. He has held visiting appointments at the Department of Electrical Engineering and Computer Science at the University of California, Berkeley, CA, in 1999–2000, at Hewlett-Packard Laboratories, Palo Alto, CA, in 1999, and at AT&T Bell Laboratories, Murray Hill, NJ, in 1992–3.

His research interests and publications span the areas of signal processing, digital communication, and information theory, and include algorithms and architectures for wireless and sensor networks, broadband systems, and multimedia environments. He has been involved in the Signal Processing and Information Theory societies of the IEEE in a variety of capacities, and maintains a number of close industrial relationships and activities. He has won a number of awards for both his research and teaching, and is a Fellow of the IEEE.

#### Keywords

signal and information manipulation, wireless networks, interference cancellation techniques, multimedia content authentication, source coding algorithms, sensors

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