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Current Positions: Director, Columbia Institute for Tele-Information, 1983-1987 (Founder); 1990- present. (CITI was the Sloan Foundation's national center for telecommunications and information industry studies)

Paul Garrett Professor of Public Policy and Business Responsibility, 2011-present

Professor of Finance and Economics, 1976 - present, incl. Assistant and Associate Professor, Graduate School of Business, Columbia University, 1976-present

Taught also at Columbia Law School, and on faculty of Columbia School of Public and International Affairs

Princeton University, Department of Economics and Woodrow Wilson School, Visiting Asst. Professor, 1975-1976.

Virtual Visiting Professor, University of St. Gallen, Switzerland, 1998-2002

Visiting Professor, University of Pennsylvania, Annenberg School of Communications, 2016

Other Positions: Commissioner, New York State Public Service Commission 1987-1990.

Honors:

Honorary Doctorate, Université de la Méditerranée (University of Marseille and University of Aix-le-Provence), 2008

Honorary Doctorate, Ludwig-Maximilian University, Munich, 2004 (Recognized by German government as one of Germany's top 3 universities).

Distinguished Member Award, American Economic Association, Transportation and Public Utilities Group, 2006

Senior Fellow Award, DeSantis Center for Film Studies, 2009

Distinguished Service Award. Public Utilities Center (University of Florida) 2009.

Best Book in Media Economics 2010, Association for Education in Journalism and Mass Communication

Best Book in Media Economics 2017, Association for Education in Journalism and Mass Communication

Education:

Ph.D., 1975, Harvard University, Department of Economics. Dissertation Advisors: Martin Feldstein, Thomas Schelling

J.D., 1975, Harvard Law School.

M.A., 1972, Harvard University, Department of Economics.

B.A., 1970, Harvard College, Economics and History, Phi Beta Kappa, Summa Cum Laude Thesis, 1970, John Harvard Scholar

Publications:**I. Books:**

Telecommunications Regulation: Today and Tomorrow, Editor. New York: 477 pp. Law and Business: Harcourt Brace Jovanovich, 1982.

Video Media Competition: Regulation, Economics, and Technology, Editor. 468 pp. New York: Columbia University Press, 1985.

Services in Transition: The Impact of Information Technologies on the Service Sector, Co-editor. 218 pp. Cambridge, Mass.: Ballinger, 1986.

Law of International Telecommunications in the United States, Co-editor. 271 pp. Baden-Baden: Nomos, 1988.

The Cost of Libel, Co-editor. 283 pp. Columbia University Press, 1989.

Technologies without Boundaries, Editor for Ithiel de Sola Pool (posthumously). Translated into Japanese and Arabic. Harvard University Press 1990.

Television in Europe. 395 pp., Oxford University Press 1991.

Telecommunications in Europe. 523 pp. Oxford University Press, 1992.

The Telecommunications Revolution. Co-editor. (Also in Japanese). 217 pp., Routledge, 1992.

The International Market for Film and Television, Co-editor. 202 pp., Ablex, 1992.

Asymmetric Deregulation, Co-Editor. 264 pp., Ablex, 1992.

Privacy in Telecommunications: Markets, Rights, and Regulations, Monograph, United Church of Christ, 1994.

Telecommunications in the Pacific Basin, Co-editor. 514 pp., Oxford University Press, 1994.

Private Networks and Public Objectives, Co-Editor, Elsevier, Amsterdam 1996.

Globalism and Localism in Telecommunications, Co-Editor. 391 pp., Amsterdam 1997.

Telecommunications in Western Asia and the Middle East. 244 pp., Oxford University Press 1997.

Public Television in America. 181 pp., Bertelsmann Foundation Publishers, 1998.

Telecommunications in Latin America. 265 pp., Oxford University Press, 1998

Telecommunications in Africa. 306 pp., Oxford University Press 1999.

The New Investment Theory of Real Options and its Implication for Telecommunications Economics. co-editor, 280 pp., Kluwer Academic Publishers, 1999.

Interconnecting the Network of Networks, NJ, 318 pp., MIT Press, 2001.

Internet Television, co-editor, 249 pp., Lawrence Erlbaum, Mahwah, NJ 2004.

Competition for the Mobile Internet, co-editor, 223pp., Artech, 2004.

Telecommunications Meltdown (in Japanese), co-author, 185 pp., Tokyo, NTT Publishing Company, 2005.

Mobile Media: Content and Services for Wireless Communications, co-editor, 241 pp., Erlbaum, 2006.

Peer- to-Peer Video as a Distribution Medium: The Economics, Policy, and Culture of Today's New Mass Medium, Co-editor, Springer Publishers, 2008

Ultrabroadband: The Next Stage in Communications, Communications and Strategies, special issue, Co-editor, 2008

Media Ownership and Concentration in America, Oxford University Press, 2009

Broadband Networks, Smart Grids and Climate Change, Co-editor, New York: Springer, 2012

Media Industry Dynamics – Management, Concentration, Policies, Convergence and Competition, Co-editor, Media XXI, 2015.

Who Owns the World's Media? Media Concentration and Ownership around the World, Oxford University Press, 2016

Digitized Labor: The Impact of the Internet on Employment, Co-editor, Palgrave, 2018.

The Telecommunications Revolution, Co-editor, Routledge, 2018.

Digital and Media Management – Foundations, Palgrave/MacMillan. January 2019.

Managing Media and Digital Organizations – Advanced,

Palgrave/MacMillan. January 2019.

The Technology, Business, and Economics of Streaming Video: The Next Generation of Media Emerges, Edward Elgar Publishing, forthcoming.

The Content, Impact, and Regulation of Streaming Video: The Next Generation of Media Emerges, Edward Elgar Publishing, forthcoming.

Books in Preparation:

1. Monographs

Broadband Nation: The Dark Side of the Internet

Competing for Attention Span

Media Industries

II. Articles:

A. Articles on Public Choice and Regulation (General)

"Confidentiality Claims of Business Organizations," with Kent Greenawalt, in *Business Disclosure: Government's Need to Know*, Harvey Goldschmidt, ed., New York: McGraw Hill (1979), pp. 210-219.

"The Efficiency of Direct Democracy," *Journal of Political Economy*, Vol. 88, No. 4 (August 1980), pp. 803-10.

"The Interaction of Federal De-Regulation and State Regulation," *Hofstra Law Review*, Vol. 9, No. 1 (Fall 1980), pp. 195-210.

"Divergent Goals for the Deregulators," *New York Times*, editorial page article (August 6, 1981).

"The Valuation of Legal Rights," *The Quarterly Journal of Economics*, Vol. 46, No. 3 (August 1981), pp. 465-476.

"The Choice of Government Level in Regulation," *Kyklos*, Vol. 35 (June 1982), pp. 276-291.

"Does Independence Matter? An Analysis of Regulatory Behavior," *Quarterly Review of Economics and Business*, Vol. 22, No. 4 (Winter 1982), pp. 51-60.

"Government Regulation of Business in a Federal State: Allocation of Power Under Deregulation," *Osgoode Hall Law Journal*, (Canada Law Review), Vol. 20, No. 4 (December 1982), pp. 762-79.

"The Interaction of Building Codes and Housing Prices," *Journal of the American Real Estate and Urban Economics Association*, Vol. 10 (1983), pp. 394-404.

"Market Power and Regulation: A Simultaneous Approach," *The Journal of Industrial Economics*, Vol. 32, No. 3 (March 1984), pp. 335-347.

"A Local Regulator's Rewards for Conformity in Regulation," *Public Choice*, vol. 45, no. 3 (1985), pp. 291-302.

"The Effect of Unionization and Civil Service on the Salaries and Productivity of Regulators," *Research in Labor Economics*, Vol. 5 (1983), pp. 157-70.

B. Articles on Public Finance

"The Optimal Budget," *National Tax Journal*, Vol. 32, no. 2 (June 1979), pp. 165-72.

"Tax Limitations and Fiscal Federalism," *National Tax Journal*, Vol. 32, No. 2, supplement (June 1979), pp. 181-88.

"Income Sensitivity of Price Elasticities: Effects on the Demand for Public Goods," *Public Finance Quarterly*, Vol. 9, No. 1 (January 1981), pp. 23-34.

"Public Preferences for Economic Policies," *Journal of Economic Psychology*, Vol. 1, No. 4 (December 1981), pp. 273-81.

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"The Effects of U.S. Tax Laws on the Tax Systems of Developing Countries," *United States Taxation and Developing Countries*, R. Hellawell, ed., New York: Columbia University Press (1980), pp. 210-19.

"Measuring Subjective Valuation and Demand for Government Services," *Journal of Consumer Research, Papers and Proceedings*, Vol. 8 (October 1981), pp. 534-38.

"The Dynamics of Media Concentration: The American Experience," *The Media Industries and their Markets – Quantitative and Econometric Analyses*. Annual Volume of the Applied Econometrics Association, J.B. Lesoud, ed. Palgrave Macmillan, 2010. Forthcoming

C. Articles on the Economics of Criminal Justice

"The Criminal Justice System: An Economic Model," *Modeling the Criminal Justice System*, Stuart Nagel, ed., Beverly Hills: Sage Press (1977), pp. 41-56.

"The Negotiated Guilty Plea," *NYU Law Review*, Vol. 54 (April 1979), pp. 280-87.

"Blindfolded Justice Led by an Invisible Hand: Criminal Justice as a Variable of Exchange Transactions," *Law and Policy Quarterly*, Vol. 3, No. 4 (October 1981), pp. 490-501.

"The Optimal Size of the Criminal Court System," *Social Dimensions of Economics*, Vol. 2 (1981), pp. 145-61.

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"Jury Trial vs. Guilty Plea: A Prosecutor's Cost-Benefit Comparison," *Journal of the New York State Economic Association*, Vol. 12 (1982), pp. 76-83.

"Resource Allocation and Access to the Criminal Courts: An Economic Model," *The Windsor Yearbook of Access to Justice*, Vol. 2 (1982), pp. 208-23.

D. Articles on Communications

"Opening up Cable TV," *The New York Times*, editorial page article (March 19, 1981).

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Also reprinted as: "Should the Cable TV Operators Choose the Programs and Also Distribute?" *Moneysworth* (July 1981).

Also reprinted as: "Summing Up: An Assessment of Economic Trends and Financial Moves," *American Business* (September 1981).

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“Is Telecom Liberalization as an Expansionary Process," *Communications in the Nineties, Proceedings of the 10th International Conference*, IDATE, France, (Nov. 1988), pp. 7-15.

"International Telecommunications in Transition," Robert Crandall and Kenneth Flamm, ed., *Changing the Rules: Technological Change in International Competition and Regulation in Communications*, Brookings Institute, Washington, D.C., (1989), pp. 257-297.

"Network Pluralism and Regulatory Pluralism" Paula B. Newberg, ed., *New Directions in Telecommunications Policy*, Vol. 1, Duke University Press, (1989) pp. 66-91.

"Change in American Telecommunications," *Testimony before the German Parliamentary Committee on Telecommunications*, (March 18, 1989), pp. 123-126.

"Emerging Technology and the Potential for New Services," *Proceedings of the University of Utah Conference on Telecommunications*, Salt Lake City, Utah,(Jan. 1989), pp. 20-24.

"El Futuro De La Reglamentacion De Las Telecomunicaciones," Obdulio Martin Bernal, ed. *Telecomunicaciones 1989/ Tendencias*, Fundesco, Madrid, Spain, (1989), pp. 45-52.

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Media: Change and Challenges. Lisbon: Media XXI, 2015.

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“Newspaper Business Sustainability and Management in Europe and North America: The Executives Perspective.” With Paulo Faustino, forthcoming.

E. Book Reviews

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Review, W. Hirsch, "Law and Economics: An Introductory Analysis," *Kyklos*, Vol. 34, No. 2 (1981), pp. 310-11.

Review, R. Posner, "The Economics of Justice," *American Bar Foundation Research Journal* (Winter 1982), pp. 269-74, *Kyklos*, Vol. 35, No. 1 (1982), pp. 179-80.

Review, L. White, "Reforming Regulation: Processes and Problems," *Hofstra Law Review*, Vol. 10, No. 3 (spring 1982), pp. 969-72.

Review, R. Posner, "The Economics of Justice," *Kyklos*, Vol. 35, No. 1 (1982), pp. 179-80.

Review, P. Temin, "The Fall of the Bell System," *Journal of Economic Literature*, forthcoming.

Review, C. Shooshan, "The AT&T Divestiture," *Journal of Economic Literature*, Vol. XXIII, No. 2, pp. 650-51.

Review, A. Stone, "Disconnecting Bell," *The Journal of Economic Literature*, Vol. XXIII, No. 3, pg. 650.

F. Working Papers

“Economies of Scale, Network Effects, and the Dynamics of the Telecom Industry Structure”, *International Journal of Management and Network Economics*

“Trends in the Music Industry: Crisis and Restructuring”

“Facing Asia : The American Consumer Electronics Industry 1984 -2011“

“Vertical Disintegration in the American Computer Industry”

“Concentration Trends of the American Computer Software Sector”

“Cyclicalilty in the American Telecommunications Equipment Industry”

“Did Deregulation and Diverstiture Achieve Competition in the American Telecommunications Sector?”

“From Ben Franklin to i-Pad: Consolidation in American Book Publishing”

“Magazines: Last Print Medium Standing?”

“The Ownership by Financial Institution of American Media”

“Concentration and the Decline of the Newspaper Industry”

“Institutional Ownership of the American IT Industries”

“Vertical Ownership Trends in American Mass Media, 1983-2008”

“Vertical Concentration in the American IT Sector”

“Local Media Markets: From Oligopoly to Monopoly”

“A New Concentration Index for Media Industries”

“Restructuring of Traditional Media: The American Radio Industry, 1984-2009”

“Distribution of TV and Video to the Home: Empirical Evidence and Regulatory Implications”

“Content and Ownership: Diversity in TV Program Channels”

“The Internet: Still Wide Open?”

“The World’s Most Permanent Oligopoly: the American Film Industry”

“American Broadcast Television: Decline or Dominance?”

Editorships:

General Editor of the Columbia University Press Book series,
"Business, Government, and Society."

Faculty Committee on Publications, Columbia University Press
(1987-1990).

Member, Editorial Board: *The Communications Review*

New Media

Telecommunications Policy

Telematics

Transborder Data Report

Utility Policy

Communications and Strategies

International Journal of Media Management

Info: the International Journal of Information

*International Journal of Management and
Network Economics*

Revue européenne des médias

Appointed regular columnist of the *Financial Times*, online edition, on the
subject of the New Economy, 2002-2012.

**Teaching and
University Service
(partial; past and/or
present):**

Chairman, MBA Concentration in Media Management, Columbia
University, 1994-2003. Initiated the program.

Executive Committee of Ph.D. Program in Communication (initiated university-wide task force to establish Ph.D. program)

Extensive development of web-based distance education courses in media management, with the support of Bertelsmann Foundation and the University of St. Gallen, Switzerland.

University Senate, Senator representing the tenured faculty of the Business School.

Member, University Senate Committee on Budget

Member, University Senate Committee on External Relations and Research Policy

Member, University Senate Special Committee on School of Professional Studies

Member, University Senate Committee on Honors & Prizes

Member, Tenure and Promotions Committee, Columbia Business School

Chairman, Search committees on several faculty positions

Chairman, Committee on Executive Education Faculty Planning

Chairman and member, Faculty Committee on Admissions Policy

Member, Committee on Information Technology, Columbia Business School

Member, Disciplinary Committee, Columbia Business School

Bar Admissions: New York State; District of Columbia; U.S. Supreme Court.

Present and Main Past Outside Activities and Affiliations: Chairman of the Board, Nexus Mundi Foundation (Vatican-based organization for the creation of tele-medicine centers in developing countries), Rome and New York – current

Member, Board of Trustees, Jones International University

Member, Council on Foreign Relations – current

Member, Advisory Committee for the Federal FTS-2000 network, largest U.S. government civilian procurement project.

Faculty Committee, University Seminars, Columbia University (1987-1990).

Member, Advisory Board, IRS Tax system modernization.

Member, Faculty Steering Committee of the Centre National de la Recherche Scientifique, Paris, France.

Research Advisory Board, New York City Police Department, 1976-1980.

Member, National Committee on Mass Media of the American Civil Liberties Union. 1982-1986.

Advisor, Consumer Information Project, United Church of Christ, Office of Telecommunications.

Member, Advisory Board on Technology Impact, Office of Technology Assessment, U.S. Congress.

Member, Scientific Board, Institute de L'Audiovisuel et Telecommunication en Europe.

Co-Chairman of Board, Annual Telecommunications Policy Research Conference 1997.

Member, New York State Governor's Task Force on the Communication Sector of New York

Member, Advisory Board, Minority Media and Telecommunications Council

Commissioner, Commission on the Status of Women in Computing

National Academy of Science, Expert Committee on Broadband Last Mile Technology

Director and initiator of the *Virtual Institute of Information*, an electronic information platform, based at Columbia.

Oxford Internet Institute, Advisory Board

Member, Board of Directors, Intek Global Corporation

Honorary Fellow, International Engineering Consortium

Participant, World Economic Forum (Davos, Switzerland) 5 times.

Member, World Economic Forum, Global Agenda Councils

National Academy of Science, Expert Committee on Telecommunications Research and Development

Member, International Scientific Advisory Board, France Telecom

Member, Advisory Board, Irish Telecom Board ComReg

Member, President's Information Technology Advisory Committee (PITAC) (White House Appointment, 2003-2005)

Grants & Research Support:

National Science Foundation: "Technical Innovation under Monopoly and Competition: Established Cable Television Franchises and the State of the Art."

National Science Foundation, "The Impact of New Information Technology on the Service Sector".

National Science Foundation, "The Dynamics of One-Sided Liberalization".

Fellow of the German Marshall Fund of the United States: "The Growing Divergence of American and European Telecommunications Infrastructure and its Implications for Information Supply."

Resident Fellow, Freedom Forum Media Studies Center, 1994-95.

Association of Academic Health Centers, Annual Award Lectureship, 1997.

Alfred P. Sloan Foundation, obtained award of multi-year grant for national research center on the telecom industry, 2000; renewed, 2003; renewed 2006.

Alfred P. Sloan Foundation, grant for project, "Remedies for Telecommunications Recovery," 2002.

Time Warner Cable Research Program on Digital Communications, www.twcresearchprogram.com, and (An open competitive research grant program) “Next Generation Content for Next Generation Networks,” 2011

Canadian Radio–Television and Telecommunications Commission, report “TV or Not TV – Three Screens, One Regulation,” 2009

Open Society Institute, grant for project “International Media Concentration”, 2010

“The Challenge of Telecom 3.0,” Commissioned paper for Annual Meeting of European Telecom Network Organization, 2008.

Bill & Melinda Gates Foundation, grant for 2 years (2016-2018), for Digital Financial Services Regulatory and Policy Observatory at Columbia Institute for Tele-Information. \$1.05 million. Principal Investigator.

Bill & Melinda Gates Foundation, grant for 2 years (2018-2020), for Phase 2 of Digital Financial Services Regulatory and Policy Observatory at Columbia Institute for Tele-Information. \$1.62 million. Principal Investigator.

Patents: US Patent 7,203,657, granted 4/10/2007, “General Packet-Based Payment and Transaction Method and System”

Personal: Born 1946. Married since 1980 to Nadine Strossen, John Marshall Harlan II Professor of Law, New York Law School, and National President, American Civil Liberties Union 1990-2009.

Military Service: Israel Air Force, 1966-68. Six Days War, 1967; October War, 1973

Hobbies: Skiing; flying own plane; radio amateur, advanced class; theater; scuba diving.

Other: Commercially rated pilot. Actively flying with Civil Air Patrol, Mission Pilot for aerial search and rescue (SAR), 1st Lt.