

**IEEE BROWDER J. THOMPSON MEMORIAL PRIZE AWARD
RECIPIENTS**

- 1997 - KAI YEUNG (SUNNY) SIU
Massachusetts Institute of Technology
Cambridge, MA, USA
and HONG-YI TZENG
Lucent Technologies
Holmdel, NJ, USA
"On the Message and Time Complexity of
Protocols for Reliable Broadcasts/Multicasts in
Networks with Omission Failures," IEEE
JOURNAL ON SELECTED AREAS IN
COMMUNICATIONS, Vol. 13, No. 7, September
1995, pp.1296-1308.
- 1996 - CARL W. BAUM
Clemson University
Clemson, SC, USA
and VENUGOPAL V. VEERAVALLI
Rice University
Houston, TX, USA
"A Sequential Procedure for Multihypothesis
Testing," IEEE TRANSACTIONS ON
INFORMATION THEORY, Vol. 40, No. 6,
November 1994, pp. 1994-2007.
- 1995 - NO AWARD
- 1994 - OLIVER M. COLLINS
The Johns Hopkins University
Baltimore, MD, USA
"The Subtleties and Intricacies of Building a
Constraint Length 15 Convolutional Decoder,"
IEEE TRANSACTIONS on Communications, Vol.
40, No. 12, December 1992, pp. 1810-1819.
- 1993 - RAMSEY W. HADDAD
Digital Equipment Corporation
Palo Alto, CA, USA
and ANTON T. DAHBURA
Motorola Inc.
Cambridge, MA, USA
and ANUP B. SHARMA
AT&T Bell Laboratories
Murray Hill, NJ, USA
"Increased Throughput for the Testing and
Repair of RAM's with Redundancy," IEEE
TRANSACTIONS on Computers, Vo. 40, No. 2,
February 1991, pp. 154-166
- 1992 - BERTRAND S. CLARKE
Purdue University
West Lafayette, IN, USA
and ANDREW R. BARRON
Univeristy of Illinois, Urbana
Champaign, IL, USA
"Information-Theoretic Asymptotics of Bayes
Methods," IEEE TRANSACTIONS on information
Theory, Vol. 36, No. 3, May 1990, pp. 453-471
- 1991 - KESHAB K. PARHI
University of Minnesota
Minneapolis, MN, USA
"Algorithm Transformation Techniques for
Concurrent Processors," PROCEEDINGS OF
THE IEEE, December 1989
- 1990 - ROBERTO G. ROJAS
The Ohio State University
Columbus, OH, USA
"Wiener-Hopf Analysis of the EM Diffraction by
an Impedance Discontinuity in a Planar Surface
and by an Impedance Half-Plan." IEEE
TRANSACTIONS on Antennas and Propagation,
January 1988
- 1988 - LOTHAR THIELE
University of the Saarland
Muenchwen, West Germany
"On the Sensitivity of Linear State-Space
Systems," IEEE TRANSACTIONS on Circuits
and Systems, May 1986

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- 1987 - JONATHAN P. WEBB
McGill University
Montreal, Canada
and DANIEL WELT
MPB Technologies, Inc.
Dorval, Canada
"Finite-Element Analysis of Dielectric Waveguides with Curved Boundaries," IEEE TRANSACTIONS on Microwave Theory and Techniques, July 1985
- 1986 - JOHN K. OUSTERHOUT
University of California
Berkeley, CA, USA
"Corner Stitching: A Data Structuring Technique for VLSI Layout Tools," IEEE TRANSACTIONS on Computer-Aided Design, January 1984
- 1985 - DOUGLAS MACGREGOR
and DAVID S. MOTHERSOLE
Motorola Inc.
Austin, TX, USA
"Virtual Memory and the MC68010," IEEE MICRO, June 1982
- 1984 - JOHN C. CURLANDER
California Institute of Technology
Pasadena, CA, USA
"Location of Spaceborne SAR Imagery," Transactions on Geoscience and Remote Sensing, July 1982
"Virtual Memory and the MC68010," IEEE MICRO, June 1983
- 1983 - DANIEL S. KIMES
and JULIE A. KIRCHNER
NASA/Goddard Space Flight Center
Greenbelt, MD, USA
"Modeling the Effects of Various Radiant Transfers in Mountainous Terrain on Sensor Response," IEEE TRANSACTIONS on Geoscience and Remote Sensing, April 1981
- 1982 - STIG SKELBOE
Elektronikcentralen
Horsholm, Denmark
"Computation of the Periodic Steady-State Response of Nonlinear Networks by Extrapolation Methods," IEEE TRANSACTIONS on Circuits and Systems, March 1980
- 1981 - LAWRENCE H. GOLDSTEIN
Sandia Laboratories
Albuquerque, NM, USA
"Controllability/Observability Analysis of Digital Circuits," IEEE TRANSACTIONS on Circuits and Systems, September 1979
- 1980 - ALAN S. WILLSKY
Massachusetts Institute of Technology
Cambridge, MA, USA
"Relationships Between Digital Signal Processing and Control and Estimation Theory," PROCEEDINGS OF THE IEEE, September 1978
- 1979 - MARVIN B. LIEBERMAN
Harvard University
Cambridge, MA, USA
"A Literature Citation Study of Science-Technology Coupling in Electronics," PROCEEDINGS OF THE IEEE, January 1978
- 1978 - DAVID A. HOUNSHELL
University of Delaware
Newark, DE, USA
"Bell and Gray: Contrasts in Style, Politics, and Etiquette," PROCEEDINGS OF THE IEEE, September 1976
- 1977 - MICHAEL R. PORTNOFF
Massachusetts Institute of Technology
Cambridge, MA, USA
"Implementation of the Digital Phase Vocoder Using the Fast Fourier Transform," IEEE TRANSACTIONS on Acoustics, Speech and Signal Processing, June 1976

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- 1976 - RUSSELL M. MERSEREAU
Massachusetts Institute of Technology
Cambridge, MA, USA
and DAN E. DUDGEON
Bolt, Beranek, & Newman
Cambridge, MA, USA
"Two Dimensional Digital Filtering,"
PROCEEDINGS OF THE IEEE, April 1975
- 1975 - NUGGEHALLY S. JAYANT
Bell Laboratories
Murray Hill, NJ, USA
"Digital Coding of Speech Waveforms: PCM,
DPCM, and DM Quantizers, PROCEEDINGS OF
THE IEEE, May 1974
- 1974 - JORN JUSTESEN
Technical University of Denmark
Lyngby, Denmark
"A Class of Constructive Asymptotically Good
Algebraic Codes," IEEE TRANSACTIONS on
Information Theory, September 1972
- 1973 - JERRY MAR
Bell Telephone Labs
Murray Hill, NJ, USA
"A Two-Terminal Transistor Memory Cell Using
Breakdown," IEEE JOURNAL of Solid-State
Circuits, October 1971
- 1972 - G. DAVID FORNEY, JR.
Codex Corporation
Newton, MA, USA
"Convolutional Codes I: Algebraic Structure,"
IEEE TRANSACTIONS on Information Theory,
November 1970
- 1971 - LLOYD J. GRIFFITHS
Barry Research Corporation
Palo Alto, CA, USA
"A Simple Adaptive Algorithm for Real-Time
Processing in Antenna Arrays," PROCEEDINGS
OF THE IEEE, October 1969
- 1970 - JOHN D. RHODES
Microwave Development Laboratories
Natick, MA, USA
"The Stepped Digital Elliptic Filter," IEEE
TRANSACTIONS on Microwave Theory and
Techniques, April 1969
- 1969 - MALVIN CARL TEICH
Columbia University
New York, NY, USA
"Infrared Heterodyne Detection,"
PROCEEDINGS OF THE IEEE, January 1968
- 1968 - MICHAEL L. DERTOUZOS
Massachusetts Institute of Technology
Cambridge, MA, USA
"PHASEPLOT: An On-Line Graphical Display
Technique," IEEE TRANSACTIONS on
Electronic Computers, April 1967
- 1967 - LEON O. CHUA
Purdue University
West Lafayette, IN, USA
and RONALD A. ROHRER
State University of New York
Stonybrook, NY, USA
"On the Dynamic Equations of a Class of
Nonlinear RLC Networks," IEEE
TRANSACTIONS on Circuit Theory, December,
1965
- 1966 - KENNETH M. JOHNSON
Texas Instruments Incorporated
Dallas, TX, USA
"High-Speed Photodiode Signal Enhancement at
Avalanche Breakdown Voltage," IEEE
TRANSACTIONS on Electron Devices, February,
1965

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1965 - STEVEN R. HOFSTEIN
and FRED P. HEIMAN
RCA Laboratories
Princeton, NJ, USA

"The Silicon Insulated-Gate Field-Effect Transistor," PROCEEDINGS OF THE IEEE, September 1963

1964 - HARRY B. LEE
Massachusetts Institute of Technology
Cambridge, MA, USA

"A New Canonic Realization Procedure," IEEE TRANSACTIONS on Professional Technical Group on Circuit Theory, March 1963

1963 Chih-Tang Sah
1962 Henri B. Smets
1961 Eiichi Goto
1960 J. W. Gewartowski
1959 F. H. Blecher
1958 Arthur Karp
1957 D. A. Buck
1956 J. E. Bridges
1955 B. D. Smith, Jr.
1954 R. L. Petritz
1953 R. C. Booton, Jr.
1952 H. W. Welch, Jr.
1951 A. B. Macnee
1950 J. F. Hull
1950 A. W. Randals
1949 R. V. Pound
1948 W. H. Huggins
1947 C. L. Dolph