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David G. Forney

Adjunct Professor

Princeton, BSE (EE), 1961

MIT, ScD (EE), 1965

BRIEF BIOGRAPHY

Dr. Forney joined Codex Corp. in 1965, where he developed the first "modern" high-speed telephone line modem and served as vice president of R&D. After Motorola acquired Codex in 1977, he continued as vice president until he retired in 1999. He has been an adjunct professor in LIDS since 1996.

SELECTED PUBLICATIONS

- D.J. Costello Jr. and G.D. Forney Jr., "Channel coding: The road to channel capacity," Proc. IEEE, vol. 95, pp. 1150-1177, June 2007 (invited). (2009 Donald G. Fink Prize Paper Award).
- G.D. Forney Jr., M. Grassl, and S. Guha, "Convolutional and tail-biting quantum error-correcting codes," IEEE Trans. Inform. Theory, vol. 53, pp. 865-880, Mar. 2007.
- G.D. Forney Jr. and M.D. Trott, "The dynamics of group codes: Dual abelian group codes and systems," IEEE Trans. Inform. Theory, vol. 50, pp. 2935-2965, Dec. 2004.

SELECTED AWARDS

- Fellow, IEEE, 1973
- Member, National Academy of Engineering (USA), 1983
- IEEE Donald G. Fink Prize Paper Award, 1990
- IEEE Edison Medal, 1992
- Fellow, American Association for the Advancement of Science, 1993
- Honorary member, Popov Society (Russia), 1994
- IEEE Information Theory Society, Shannon Award, 1995
- Christopher Columbus International Communication Award, 1996
- Marconi International Fellowship, 1997
- IEEE Information Theory Society, Golden Jubilee Awards (3), 1998
- Fellow, American Academy of Arts and Sciences, 1998
- Member, National Academy of Sciences (USA), 2003
- Honorary PhD, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, 2007
- IEEE Donald G. Fink Prize Paper Award, 2009

COURSES TAUGHT

- 6.451 Principles of Digital Communications II



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