

The IEEE Communications Society Leonard G. Abraham Prize in the Field of Communications Systems

Given annually to the best original paper published in any journal financially sponsored or co-sponsored by the Communications Society in the previous 3 calendar years.

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Prize

Plaque and honorarium up to \$500 for each author (total awards not to exceed \$1000).

Eligibility

Publication of an original paper, in the category Communications Systems, published in any journal financially sponsored or co-sponsored by the Communications Society in the previous 3 calendar years; author need not be an IEEE member.

Basis for Judging

Quality, originality, utility, timeliness, clarity of presentation.

Nominee Solicitation

Nominations solicited by Journal Editor-in-Chief from the Editorial Board, guest Editors, and readership (through published notice).

Selection Process

Nominations screened and reduced to a short list by a committee of the Editorial Board and submitted to the Communications Society Awards Committee for final selection.

Presentation

Annually (as soon as possible after recommendation). Award may not be given if a paper of high quality is not uncovered.

(first presented in 1958; category defined in 1975)

AWARDEES

- 2012** Pulkit Grover
Kristen Woyach
Anant Sahai
"Towards a Communication-Theoretic Understanding of System-Level Power Consumption," *IEEE Journal on Selected Areas in Communications*, Vol. 29, No. 8, September 2011, pp.1744-1755.
- 2011** Watcharapan Suwansantisuk
Marco Chiani
Moe Z. Win
"Frame Synchronization for Variable-Length Packets," *IEEE Journal on Selected Areas in Communications*, Vol. 26, No. 1, pp. 52-69, January 2008
- 2010** *No Award*
- 2009** Niranjay Ravindran
Nihar Jindal
"Limited Feedback-Based Block Diagonalization for the MIMO Broadcast Channel", *IEEE Journal on Selected Areas in Communications*, Vol. 26, No. 8, pp. 1473–1482, October 2008
- 2008** M. Kodialam
T. V. Lakshman
James B. Orlin
Sudipta Sengupta
"Preconfiguring IP-over-Optical Networks to Handle Router Failures and Unpredictable Traffic", *IEEE Journal on Selected Areas in Communications*, Vol. 25, No. 5, pp. 934 – 948, June 2007
- 2007** George Theodorakopoulos
John S. Baras
"On Trust Models and Trust Evaluation Metrics for Ad Hoc Networks", *IEEE Journal on Selected Areas in Communications*, Vol. 24, No. 2, pp. 318-328, February 2006
- 2006** Moritz Borgmann
Helmut Bölcskei
"Noncoherent Space-Frequency Coded MIMO-OFDM", *IEEE Journal on Selected Areas in Communications*, Vol. 23, No.9, pp. 1799 -1810, September 2005
- 2005** Parvathinathan
Venkitasubramaniam
Srihari Adireddy
Lang Tong
"Sensor Networks With Mobile Access: Optimal Random Access and Coding", *IEEE Journal on Selected Areas in Communications*, Vol. 22, No. 6, pp. 1058-1068, August 2004

- 2004** Shiwen Mao **"Video Transport Over Ad Hoc Networks: Multistream Coding With Multipath Transport"**, *IEEE Journal on Selected Areas in Communications*, Vol. 21, No. 10, pp. 1721-1737, December 2003
Shunan Lin
Shivendra S. Panwar
Yao Wang
Emre Celebi
- 2003** Giovanni **"Filtered Multitone Modulation for Very High-Speed Digital Subscriber Lines"**, *IEEE Journal on Selected Areas in Communications*, Vol. 20, No. 5, pp. 1016-1028, June 2002
Cherubini
Evangelos Eleftheriou
Sedat Olcer
- 2002** Ralf R. Müller **"Design and Analysis of Low-Complexity Interference Mitigation on Vector Channels"**, *IEEE Journal on Selected Areas in Communications*, Vol. 19, No. 8, pp 1429-1441, August 2001
Sergio Verdù
- 2001** Tai-Ann Chen **"A Space-Time Model for Frequency Nonselective Rayleigh Fading Channels with Applications to Space-Time Modems"**, *IEEE Journal on Selected Areas in Communications*, Vol. 18, No. 7, pp. 1175-1190, July 2000
Michael. P. Fitz
Wen-Yi Kuo
Michael. D. Zoltowski
Jimm. H. Grimm
- 2000** Baochun Li **"A Control-Based Middleware Framework for Quality-of- Service Adaptations"**, *IEEE Journal on Selected Areas in Communications*, Vol. 17, No. 9, September 1999, pp. 1632-1650
Klara Nahrstedt
- 1999** Robert J. **"Turbo Decoding as an Instance of Pearl's "Belief Propagation" Algorithm"**, *IEEE Journal on Selected Areas in Communications*, Vol 16, No 2, Feb 1998, pp. 140-152
McEliece
David J.C.
MacKay
Jung-Fu Cheng
- 1998** Chi-Yuan Hsu **"Joint Selection of Source and Channel Rate for VBR Video transmission Under ATM Policing Constraints"**, *IEEE Journal on Selected Areas in Communications*, Aug 1997
Antonio Ortega
Amy R. Reibman
- 1997** Akyildiz **"Multimedia Group Synchronization Protocols for Integrated Services"**, *IEEE Journal on Selected Areas in Communications*, Jan. 1996, Volume 14, Number 1, pp. 162-173
Yen
- 1996** Gi-Hong Im **"Bandwith-efficient digital transmission over unshielded twisted pair wiring"**, *IEEE Journal on Selected Areas in Communications*, Vol. 13, No. 9, Dec 1995
Jean-Jacques Werner

- 1995** Donald E. Smith **"Effects of Feedback Delay on the Performance of Transfer-Controlled Procedure in Controlling CCS Network Overloads"**, *IEEE Journal on Selected Areas in Communications*, Vol. 12, No. 3, April 1994
- 1994** L. Gong **"Protecting Poorly Chosen Secrets from Guessing Attacks"**,
M. A. Lomas *IEEE Journal on Selected Areas in Communications*, Volume 11, No. 5,
R. M. June 1993
Needham
J.H. Saltzer
- 1993** Brian H. **"Finite-State Modulation Codes for Data Storage"**, *IEEE Journal on*
Marcus *Selected Areas in Communications*, Vol. 10, No. 1, pp. 5-37, January 1992
Paul H. Siegel
Jack K. Wolf
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