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LIST OF INDEPENDENT CITATIONS

Only the citations of independent authors are considered, that is, each self-citation is excluded.

Topics of cited publications:

- Theory of sampling phase-locked loop
- Chaotic behavior of phase-locked loops
- Chaotic modulation schemes
- Noise performance of chaotic digital communication system in single-ray AWGN and multi-path channels
- Theory and performance analysis of chaotic digital communication systems
- Application of chaotic signals as wideband excitation in measurement engineering
- Generation of pseudo-random sequences by chaotic signal generators

Number of citations:

	Number of known citations on October 28, 2006
Number of cited publications:	63
Number of independent citations without multiple citations:	642
Citations in list of references:	4
Extra citation due to multiple citation in one publication:	129
Total number of independent citations:	775
Total number of independent citations done by non-Hungarian authors:	694

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A. Book chapters

- A1** G. Kolumbán and M. P. Kennedy: “Correlator-Based Chaotic Communications: Attainable Noise and Multipath Performance,” **Chaos in Circuits and Systems**. (G. Chen and T. Ueta, Editors), World Scientific, Series on Nonlinear Science, Series B - vol. 11, Singapore, 2002.
- A1-c1** G. Kis: **Performance Analysis of Chaotic Communications Systems**. *PhD Thesis*, Budapest University of Technology and Economics, Budapest, Hungary, 2003.
- A2** G. Kolumbán and M. P. Kennedy: “Overview of Digital Communications,” **Chaotic Electronics in Telecommunications**. (M.P. Kennedy, R. Rovatti and G. Setti, Editors), Florida: CRC Press, 2000, pp. 131-149.
- A2-c1** J. M. González-Miranda: “Synchronization and Control of Chaos: An Introduction for Scientists and Engineers,” *IEEE Control System Magazin*, pp. 97-99, April 2006.
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- A3** M. P. Kennedy, G. Kolumbán and Z. Jákó: “Chaotic Modulation Schemes,” in **Chaotic Electronics in Telecommunications**. (M.P. Kennedy, R. Rovatti and G. Setti, Editors), Florida: CRC Press, 2000, pp. 151-183.
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- A4** G. Kolumbán, M. P. Kennedy and G. Kis: “Performance Evaluation of FM-DCSK,” in **Chaotic Electronics in Telecommunications**. (M.P. Kennedy, R. Rovatti and G. Setti, Editors), Florida: CRC Press, 2000, pp. 185-220.
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- A7-c1** G. Kis: **Performance Analysis of Chaotic Communications Systems**. *PhD Thesis*, Budapest University of Technology and Economics, Budapest, Hungary, 2003.

B. Referred international journal papers

- B1** G. Kolumbán, M. P. Kennedy, Z. Jákó, and G. Kiss: “Chaotic Communications with Correlator Receiver: Theory and Performance Limits,” *Proceedings of the IEEE*, vol. 90, pp.711-732 , May 2002, invited paper.
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- B4-c2** L. Kocarev, J. Makraduli and P. Amato: “Public-Key Encryption Based on Chebyshev Polynomials,” *Circuits, Systems and Signal Processing*, vol. 24, No. 5, pp. 497-517, 2005.
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- C1** G. Kolumbán: “The Theory and Implementation of a Robust Chaotic Digital Communication System,” Invited talk at *Winter School 2002* organized by the UCSD/UCLA/Stanford ARO MURI Program in Chaotic Communications, University of California, San Diego, USA, January 13–16, 2002, “<http://www.ims2003.org/technical/workshop/WMA.htm>”.
- C1-c1** F. C. M. Lau and C. K. Tse: **Chaos-Based Digital Communication Systems** Springer Verlag, Berlin, Heidelberg, 2003.
- C1-c2** T. Wai-Man: **Study of Chaos-Based Communication Systems in a Multiple Access Environment.** *PhD Thesis*, The Hong Kong Polytechnic University, Hong Kong SAR, China, 2003.
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- C2** M. P. Kennedy and G. Kolumbán: “Chaotic Modulations: from BCSK to FM-DCSK,” Presymposium tutorial at *IEEE-ISCAS’2000*, Geneva, Switzerland, May 28–31, 2000, “<http://www.mit.bme.hu/research/chaos/tutorials/modulation/>”.
- C2-c1** G. Kis: **Performance Analysis of Chaotic Communications Systems.** *PhD Thesis*, Budapest University of Technology and Economics, Budapest, Hungary, 2003.
- C3** G. Kolumbán and M. P. Kennedy: “DCSK: Chaotic Modulation for Multipath Environments,” Presymposium tutorial at *IEEE-ISCAS’2000*, Geneva, Switzerland, May 28–31, 2000, “<http://www.mit.bme.hu/research/chaos/tutorials/performance/>”.
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- C4** G. Kolumbán and M. P. Kennedy: “Performance Comparison of FM-DCSK and Conventional Modulation Schemes in Multipath Environment,” invited keynote address in *Proc. NDES’99*, Rønne, Island of Bornholm, Denmark, July 15–17, 1999, pp. 151-156.
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 - C4-c3** A. Abel, W. Schwarz and M. Götz: “Noise Performance of Chaotic Communication Systems,” *IEEE Trans. Circuits and Syst. I*, vol. 47, pp. 1726-1732, December 2000.
 - C4-c4** G. Kis: “Performance of Fast and Slow Chaotic Frequency Hopping Modulation in WLAN Applications,” in *Proc. ISSC’2000*, Dublin, Ireland, June 29–30, 2000, pp. 149-156.
 - C4-c5** G. M. Maggio and O. De Feo: “T-CSK: A Robust Approach to Chaos-Based Communications,” in *Proc. NDES’2000*, Catania, Italy, May 18–20, 2000, pp. 37-41.
 - C4-c6** Z. Jákó: “Optimum Spectral Shaping of Transmitted Signal in FM-DCSK Communications System,” in *Proc. NDES’2000*, Catania, Italy, May 18–20, 2000, pp. 208-211.
- C5** G. Kolumbán: “Performance Evaluation of Chaotic Communications Systems: Determination of Low-Pass Equivalent Model,” invited tutorial in *Proc. NDES’98*, Budapest, Hungary, July 16–18, 1998, pp. 41-51.
- C5-c1** F. C. M. Lau and C. K. Tse: **Chaos-Based Digital Communication Systems** Springer Verlag, Berlin, Heidelberg, 2003.
 - C5-c2** T. Wai-Man: **Study of Chaos-Based Communication Systems in a Multiple Access Environment**. *PhD Thesis*, The Hong Kong Polytechnic University, Hong Kong SAR, China, 2003.
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 - C5-c4** A. Abel and W. Schwarz: “Chaos Communications - Principles, Schemes, and System Analysis,” *Proceedings of the IEEE*, vol. 90, pp. 691–710, May 2002.
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 - C5-c6** W. M. Tam, W. C. M. Lau, C. K. Tse and M. M. Yip: “An Approach to Calculating the Bit-Error Rate of a Coherent Chaos-Shift Keying Digital Communication System Under a Noisy Multiuser Environment,” *IEEE Trans. Circuits and Syst. I*, vol. 49, pp. 210-223, February 2002.
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- C5-c9** A. Abel, W. Schwarz and M. Götz: “Noise Performance of Chaotic Communication Systems,” *IEEE Trans. Circuits and Syst. I*, vol. 47, pp. 1726-1732, December 2000.
- C5-c10** W. Schwarz, M. Götz, K. Kelber, A. Abel, T. Falk and F. Daschelt: “Statistical Analysis and Design of Chaotic Systems,” in **Application of Chaotic Electronics to Telecommunications**. (M.P. Kennedy, R. Rovatti and G. Setti Editors), Florida: CRC Press, 2000, p. 253-305.
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- C5-c12** G. Kis and G. Baldwin: “Modeling and Simulation Issues in RF Chaotic Communications,” in *Proc. NDES’99*, Rønne, Denmark, July 15–17, 1999, pp. 173-176.
- C5-c13** J. Schweizer: **Application of Chaos to Communication**. *PhD Thesis*, Swiss Federal Institute of Technology, Lausanne, Switzerland, 1999.

D. Proceedings of referred international conferences

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 - D1-c1** A. Salberg and A. Hanssen: “A Subspace Theory for Differential Chaos-Shift Keying,” *IEEE Trans. Circuits and Syst. II: Express Briefs*, vol. 53, pp. 51-55, January 2006.
 - D1-c2** L. Ye, G. Chen and L. Wang: “Essence and Advantages of FM-DCSK versus Conventional Spread-Spectrum Communications,” *Circuits, Systems and Signal Processing*, vol. 24, No. 5, pp. 657-673, 2005.
- D2** G. Kolumbán and G. Kis: “Reception of M -ary FM-DCSK Signals by Energy Detector,” in *Proc. NDES’2003*, Scuol, Switzerland, May 18-22, 2003, pp. 133-136.
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 - D3-c1** W. M. Tam and C. K. Tse: “A Near-Optimal Noncoherent Chaos-Based Communication Scheme,” *Circuits, Systems and Signal Processing*, vol. 24, No. 5, pp. 675-687, 2005.
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- D5-c1** T. Schimming: **Statistical Analysis and Optimization of Chaos Based Broadband Communications.** *PhD Thesis*, Swiss Federal Institute of Technology, Lausanne, Switzerland, 2002.
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- D7** G. Kolumbán: “FM-DCSK: A Noncoherent Digital Modulation Scheme for Multipath Environments,” in *Proc. ISSC’2000*, Dublin, Ireland, June 29–30, 2000, pp. 241-248.
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