

Curriculum Vitae

Personal Information

First name(s) Surname(s)

Institution

Department

Address(es)

Nationality

Giorgio Taricco

Politecnico di Torino

Department of Electronics and Telecommunications

Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Italian

Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/11/2007 to present

Full Professor of Telecommunications

Teaching, research on communication systems, project management

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Education and Research

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/11/2002 to 31/10/2007

Associate Professor of Telecommunications

Teaching, research on communication systems, project management

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Education and Research

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/11/1991 to 31/10/2002

Assistant Professor of Telecommunications

Teaching, research on communication systems, project management

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Education and Research

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/01/1991 to 31/10/1991

Freelance Professional

Development of Communication System Simulators and User Interfaces

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Education and Research

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/11/1988 to 31/12/1990

Employee

Research on mobile communications within Project Prometheus

Centro Ricerche Fiat Orbassano TO, Italy

Car Manufacturer

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

01/01/1988 to 31/10/1988

Employee

Analysis of computer integrated manufacturing systems

SESAM, Torino TO, Italy (Fiat group)

Car Manufacturer

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

15/08/1985 to 31/12/1987

Employee

Research on land mobile radio communication systems

CSELT, via Reiss Romoli, Torino TO, Italy (Telecom Italia Labs)

Telecommunication Services Company

Education and training

Dates

Title of qualification awarded

Principal subjects/occupational skills

Name and type of organisation

providing education and training

1980-15/07/1985

Dr. Eng. Degree in Electronics Engineering, 110/110 *cum laude*

Mathematics, Physics, Electronics, Telecommunications, Computer Science

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 TORINO TO, Italy

Personal skills and competences

Research attainments and competences

His research activities focused on the following topics:

- Mobile communication networks
- Block codes
- Modulation and coding for the fading channel
- Information theory
- Multidimensional analysis
- Asymptotic expansions
- MIMO communication system design and analysis
- Cognitive radio networks
- Multibeam satellite communication systems
- Sensor networks
- Information theoretical analysis of MIMO communication systems
- LTE and 5G communication systems
- Narrowband Internet of Things

Organisational attainments and competences

- Associate Editor for the *IEEE Communication Letters* (2004-2008)
- Associate Editor for the *KICS Journal of Communications and Networks* (2004-2010)
- Associate Editor for the *IEEE Transactions on Information Theory* from (2008-2011)
- Senior Editor for the *IEEE Wireless Communications Letters* (2011-2017)
- Session chair in: *IEEE GLOBECOM '97, IEEE ISIT '98, IEEE GLOBECOM '99, IEEE ISIT 2000, ISITA 2004.*
- Finance chair in: *IEEE ISIT 2000, ISITA 2004 (co-chair), IEEE ITW 2009.*
- Technical Program Committee member in: *IEEE ITW 2003, IEEE ICC 2005 to 2007, IEEE WSA 2007, IEEE WCNC 2008, IEEE ISWCS 2010, International Zurich Seminar on Communications 2010 to 2018, International ITG Workshop on Smart Antennas 2009.*

Honors and Awards

- Andreoni graduation prize (1985).
- *WPMC'01* Best Paper Award (2001).
- *KICS JCN* Best Paper Award (2003).
- IEEE Senior Member (2003)
- IEEE Fellow (2010)
- ISI Highly Cited Researcher in the category Computer Science (2008-2013)

Publications

Journals

1. G. D'Aria, G. Taricco, and V. Zingarelli, "Burst error characteristics of narrowband digital mobile radio," CSELT Technical Reports, Vol.14, No.4, pp.253-261, Aug.1986.
2. G.D'Aria, G. Taricco, and V.Zingarelli, "Performance and burst error characteristics of PAM/FM in mobile radio channels," CSELT Technical Reports, Vol.15, No.2, pp.163-169, March 1987.
3. E. Biglieri and G. Taricco, "Bounds on the distribution of a random variable whose first moments are known," *AEÜ*, Vol.21, No.6, pp.330-336, November 1987.
4. M.Codogno, G.Pirani, and G. Taricco, "Error-correcting coding for the recognition of spoken sequences of digits," CSELT Technical Reports, Vol.16, No.7, pp.587-591, Dec.1988.
5. M. Elia and G. Taricco, "A note on automorphism groups of codes and symbol error probability computation," *EUROCODE '90*, Udine, November 1990, published in Lecture Notes in Computer Science No.514, Springer-Verlag, pp.6-20.

6. M. Elia and G. Taricco, "A note on linear equations modeling birth-and-death processes," *Mathematical and Computer Modeling*, Vol. 16, No.12, pp.61-69, 1992.
7. V.Castellani, M.Pent, G. Taricco and R.De Gaudenzi "TOPSIM IV: An advanced versatile user-oriented software package for computer-aided analysis and design of communication systems," *Esa Journal*, Vol. 16, No. 2, pp. 135-158, 1992.
8. G. Taricco, "The TOPSIM IV graphic user interface," *Esa Scientific and Technical Memoranda 247*, July 1993.
9. M. Elia and G. Taricco, "On a class of reversible binary cyclic codes and their algebraic decoding," *Journal of Information and Optimization Sciences*, Vol.15, No.1, pp.97-115, 1994.
10. G. Taricco, "The distance between two points moving on a graph," *International Journal of Modelling & Simulation*, Vol. 15, No. 3, March 1995, pp. 120-124.
11. G. Taricco, E. Biglieri and V. Castellani, "Applicability of four-dimensional modulations to digital satellites: A simulation study," *European Transactions on Telecommunications*, Vol.6, No.3, pp.1-10, May-June 1995.
12. E. Biglieri, G. Caire, and G. Taricco, "Approximating the pairwise error probability for fading channels," *IEE Electronics Letters*, Vol. 31, No. 19, pp. 1625-1627, 14 Sept. 1995.
13. M. Elia and G. Taricco, "A decoding algorithm for the (23,12,7) Golay code with errors and erasures correction," *Annales des Télécommunications*, Vol.50, No.9-10, pp.721-731, 1995.
14. G. Caire, G. Taricco, and G. Battail, "Weight distribution and performance of the iterated product of single-parity-check codes," *Annales des Télécommunications*, Vol.50, No.9-10, pp.752-761, 1995.
15. E. Biglieri, G. Caire, G. Taricco, and J. Ventura, "Simple method for evaluating error probabilities," *IEE Electronics Letters*, Vol. 32, No. 3, pp. 191-192, 1 Feb. 1996.
16. G. Taricco, "On the capacity of the binary input Gaussian and Rayleigh fading channels," *European Transactions on Telecommunications*, Vol.7, No. 2, pp. 201-208, March-April 1996.
17. G. Caire, G. Taricco and E. Biglieri, "Capacity of bit-interleaved channels," *IEE Electronics Letters*, Vol.32, No.12, pp.1060-1061, 6 June 1996.
18. G. Taricco and E.Viterbo, "Performance of component-interleaved signal sets for fading channels," *IEE Electronics Letters*, Vol.32, No.13, pp.1170-1172, 20 June 1996.
19. M.Ajmone Marsan, G. Taricco, G.Roncarolo and G.Tagliente, "Simulation of three MAC Protocols for intelligent highway packet radio network," *Computer Communications*, Vol.19, No.12, pp.943-953, Oct.1996.
20. J.Ventura, G. Caire, E. Biglieri, and G. Taricco, "Impact of diversity reception on fading channels with coded modulation. Part I: Coherent detection," *IEEE Trans.on Communications*, Vol.45, No.5, pp. 563-572, May 1997.
21. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "Impact of diversity reception on fading channels with coded modulation. Part II: Differential block detection," *IEEE Trans.on Communications*, Vol. 45, No.6, pp.676-686, June 1997.
22. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "Impact of diversity reception on fading channels with coded modulation. Part III: Co-channel interference," *IEEE Trans.on Communications*, Vol.45, No.7, pp.809-818, July 1997.
23. G. Taricco and M. Elia, "Capacity of the fading channel with no side information," *IEE Electronics Letters*, Vol.33, No.16, pp. 1368-1370, 31 July 1997.

24. E. Biglieri, G. Caire, G. Taricco, and J.Ventura, "A multiuser approach to narrowband cellular communications," *IEEE Trans.Inform. Theory*, Vol.43, No.5, pp.1503-1517, Sept.1997.
25. E. Biglieri, G. Caire, G. Taricco, and J.Ventura-Traveset, "Computing error probabilities over fading channels: A unified approach," *European Transactions on Telecommunications*, Vol.9, No.1, pp. 15-25, Jan.-Feb.1998.
26. E. Biglieri, G. Caire, G. Taricco, and J.Ventura-Traveset, "Co-channel interference in cellular mobile radio systems with coded PSK and diversity," *Wireless Personal Communications - Special Issue on Interference in Mobile Wireless Systems*, Vol.6, No.1-2, pp.39-68, Jan.1998.
27. G. Taricco and F.Vatta, "Capacity of cellular mobile radio systems," *IEE Electronics Letters*, Vol.34, No.6, pp.517-518, 19 March 1998.
28. G. Caire, G. Taricco, and E. Biglieri, "Bit-interleaved coded modulation," *IEEE Trans.Inform.Theory*, Vol.44, No.3, pp. 927-946, May 1998.
29. G. Taricco and E.Viterbo, "Performance of high diversity multidimensional constellations," *IEEE Trans.Inform.Theory*, Vol.44, No.4, pp.1539-1543, July 1998.
30. E. Biglieri, G. Caire, and G. Taricco, "Coding and modulation under power constraints," *IEEE Personal Communications Magazine*, Vol.5, No.3, June 1998, pp.32-39.
31. G. Caire, G. Taricco, and E. Biglieri, "Optimum power control over fading channels," *IEEE Trans. Inform. Theory*, Vol.45, No.5, pp. 1468-1489, July 1999.
32. G. Taricco, E. Biglieri, and G. Caire, "Impact of channel-state information on coded transmission over fading channels with diversity reception," *IEEE Trans. on Communications*, Vol.47, No.9, pp. 1284-1287, Sept. 1999.
33. M. Elia, G. Taricco, and E. Viterbo, "Optimal energy transfer in bandlimited communication channels," *IEEE Trans. on Inform. Theory*, vol. 45, No. 6, pp. 2020-2029, Sept. 1999.
34. E. Biglieri, G. Caire, and G. Taricco, "Coding for the fading channel: A survey," *Signal Processing*, Vol. 80, No. 7, pp. 1135-1148, July 2000.
35. E. Biglieri, G. Caire, and G. Taricco, "CDMA system design through asymptotic analysis," *IEEE Trans. on Communications*, Vol. 48, No. 11, pp. 1882-1996, Nov. 2000.
36. E. Biglieri, G. Caire, G. Taricco, and E. Viterbo, "How fading affects CDMA: An asymptotic analysis with linear receivers," *IEEE Journal on Selected Areas of Communication*, Vol. 19, No. 2, pp. 191-201, Feb. 2001.
37. E. Biglieri, G. Caire, and G. Taricco, "Limiting Performance of Block-Fading Channels with Multiple Antennas," *IEEE Trans. on Inform. Theory*, Vol. 49, No. 4, pp. 1273-1289, May 2001.
38. C. Mosquera, S. Scalise, G. Taricco, G. Garofalo and D. Giunta, "Time-transfer performance in burst-mode communication systems," *IEEE Journal on Selected Areas of Communication*, Vol. 19, No. 12, pp. 2310-2319, Dec. 2001.
39. G. Taricco and E. Biglieri, "Exact Pairwise Error Probability of Space-Time Codes," *IEEE Trans. Inform. Theory*, Vol. 48, No. 2, pp. 510-513, Feb. 2002.
40. F. Babich, G. Taricco and F. Vatta, "Spectral efficiency of cellular mobile radio systems with different traffic loads," *AEÜ*, Vol. 56, No. 2, pp. 99-108, March 2002.
41. E. Biglieri, G. Taricco, and A. Tulino, "Performance of space-time codes for a large number of antennas," *IEEE Trans. Inform. Theory*, Vol. 48, No. 7, pp. 1794-1803, July 2002.
42. E. Biglieri, G. Taricco, and A. Tulino, "Decoding space-time codes with BLAST architectures," *IEEE Trans. on Signal Processing (Special issue on signal*

- processing techniques for space-time-coded transmissions*), Vol. 50, No. 10, pp. 2547-2552, October 2002.
43. G. Taricco and E. Biglieri, "Correction to "Exact pairwise error probability of space-time codes"," *IEEE Trans. Inform. Theory*, vol. 49, no. 3, p. 766, March 2003.
 44. M. Elia and G. Taricco, "Integration of the exponential function of a complex quadratic form," *Applied Mathematics E-Notes*, Vol. 3, pp. 95-98, 2003.
 45. E. Biglieri and G. Taricco, "Large-system analyses of multiple-antenna system capacities," *Journal of Communications and Networks (Special issue on Coding and Signal Processing for MIMO systems)*, Vol. 5, No. 2, pp. 57-64, June 2003 (**Best Paper Award**).
 46. E. Biglieri, A. Nardio, and G. Taricco, "Suboptimum receiver interfaces and space-time codes," *IEEE Trans. on Signal Processing (Special issue on MIMO wireless communications)*, Vol. 51, No. 11, pp. 2720-2728, November 2003.
 47. E. Biglieri and G. Taricco, "Transmission and reception with multiple antennas: Theoretical foundations," *Foundations and Trends in Communications and Information Theory*, vol. 1, no. 2, 2004.
 48. E. Biglieri, A. Nardio, and G. Taricco, "Iterative receivers for coded MIMO signaling" (invited paper), *Wireless Communications and Mobile Computing*, vol. 4, no. 7, pp. 697-710, Nov. 2004.
 49. E. Biglieri, A. Nardio, and G. Taricco, "MIMO doubly-iterative receivers: Pre- vs. post-cancellation filtering," *IEEE Communications Letters*, vol. 9, no. 2, pp. 106-108, Feb. 2005.
 50. E. Biglieri, A. Nardio, and G. Taricco, "Doubly-iterative decoding of space-time turbo codes with a large number of antennas," *IEEE Trans. Commun.*, vol. 53, no. 5, pp. 773-779, May 2005.
 51. G. Taricco and E. Biglieri, "Space-time decoding with imperfect channel estimation," *IEEE Trans. Wireless Comm.*, vol. 4, no. 4, pp. 1874-1888, July 2005.
 52. A. Nardio and G. Taricco, "Separate linear receiver interfaces for MIMO multiple-access channels," *IEEE Signal Processing Letters*, vol. 13, no. 6, pp. 325-328, June 2006.
 53. W. Rhee and G. Taricco, "On the ergodic capacity-achieving covariance matrix of certain classes of MIMO channels," *IEEE Trans. Inform. Theory*, vol. 52, no. 8, pp. 3810-3817, August 2006.
 54. A. Nardio and G. Taricco, "Linear receivers for the multiple-input multiple-output multiple access channel," *IEEE Trans. On Communications*, vol. 54, no. 8, pp. 1446-1456, August 2006.
 55. G. Coluccia and G. Taricco, "An optimum blind receiver for correlated Rician fading MIMO channels," *IEEE Communications Letters*, vol. 11, no. 9, pp. 738-740, Sept. 2007.
 56. G. Taricco and G. Coluccia, "Optimum receiver design for correlated Rician fading MIMO channels with pilot-aided detection," *IEEE Journal on Selected Areas of Communication*, vol. 25, no. 7, pp. 1311-1321, Sept. 2007.
 57. G. Taricco, "Asymptotic mutual information statistics of separately-correlated Rician fading MIMO channels," *IEEE Trans. Inform. Theory*, vol. 54, no. 8, pp. 3490-3504, August 2008.
 58. G. Coluccia, E. Riegler, C. Mecklenbrauker, and G. Taricco, "Optimum MIMO-OFDM detection with pilot-aided channel state information," *IEEE Journal of Selected Topics in Signal Processing*, vol. 3, no. 6, pp. 1053-1065, December 2009.
 59. G. Taricco, "Optimum receiver design and performance analysis of arbitrarily correlated Rician fading MIMO channels with imperfect channel state information," *IEEE Trans. Inform. Theory*, vol. 56, no. 3, pp. 1114-1134, March 2010.

60. E. Riegler and G. Taricco, "Asymptotic statistics of the mutual information for spatially correlated Rician fading MIMO channels with interference," *IEEE Trans. Inform. Theory*, vol. 56, no. 4, pp. 1542–1559, April 2010.
61. G. Taricco, "On the accuracy of the Gaussian approximation with linear cooperative spectrum sensing over Rician fading channels," *IEEE Signal Processing Letters*, vol. 17, no. 7, pp. 651–654, July 2010.
62. G. Taricco, "Optimization of linear cooperative spectrum sensing for cognitive radio networks," *IEEE Journal of Selected Topics in Signal Processing*, vol. 5, no. 1, pp. 77–86, Feb. 2011.
63. G. Taricco and E. Riegler, "On the ergodic capacity of correlated Rician fading MIMO channels with interference," *IEEE Trans. Inform. Theory*, vol. 57, no. 7, pp. 4123–4137, July 2011.
64. G. Taricco, "Robust detection analysis of linear cooperative spectrum sensing for cognitive radio networks," *Physical Communication*, vol. 4, no. 3, pp. 244–250, September 2011.
65. G. Taricco, "On the beamforming capacity of MISO channels," *IEEE Wireless Communications Letters*, vol. 1, no. 2, pp. 141–144, April 2012.
66. G. Taricco, "Joint channel and data estimation for wireless sensor networks," *IEEE Wireless Communications Letters*, vol. 1, no. 5, pp. 532–535, October 2012.
67. G. Taricco, "Further results on the asymptotic mutual information of Rician fading MIMO channels," *IEEE Trans. Inform. Theory*, vol. 59, no. 2, pp. 894–915, February 2013.
68. L. Wei, Z. Zheng, J. Corander, and G. Taricco, "On the outage capacity of orthogonal space-time block codes over multi-cluster scattering MIMO channels," *IEEE Trans. on Commun.*, vol. 63, no. 5, pp. 1700–1711, May 2015.
69. G. Taricco, "On the Convergence of Multipath Fading Channel Gains to the Rayleigh Distribution," *IEEE Wireless Communications Letters*, vol. 4, no. 5, pp. 549–552, October 2015.

Book chapters

1. E. Biglieri, G. Caire, G. Taricco and J. Ventura, "Coded modulations and diversity for satellite cellular communications," in: B. Jabbari, P. Godlewski, and X. Lagrange (Eds.): *Multiaccess, Mobility, and Teletraffic for Personal Communications*, Kluwer Academic Publ., 1996.
2. E. Biglieri, G. Caire, and G. Taricco, "Coding and modulation for the fading channel," in: S.G. Glisc and P.A. Leppänen, *Wireless Communications - TDMA versus CDMA*, Kluwer Academic Publ., 1997.
3. E. Biglieri, G. Caire, and G. Taricco, "Coding vs. spreading over block fading channels," in: Francis Swarts (Ed.), *CDMA Techniques for Third Generation Mobile Systems*. Kluwer Academic Publ., 1998.
4. E. Biglieri, G. Caire, and G. Taricco, "Coding for the fading channel: A survey," in: J. S. Byrns (Ed.), *Signal Processing for Multimedia*, IOS Press, 1999, pp. 189–204.
5. E. Biglieri, G. Taricco, and G. Caire, "Coding for the wireless channel," in: N. Morinaga, R. Kohnno, and S. Sampei (Eds.), *Wireless Communication Technologies*. Boston, MA: Kluwer Academic Publ., 2000.
6. E. Biglieri, G. Caire, and G. Taricco, "Coding and modulation for power-constrained wireless channel," in: M. Shafi (Ed.), *Wireless Communications in the 21st Century*. New York: IEEE Press, 2002.
7. E. Biglieri and G. Taricco, "Multiple Antennas," in: M. Guizani (Ed.), *Wireless Communications Systems and Networks*. Kluwer, 2004.
8. E. Biglieri and G. Taricco, "Fundamentals of MIMO channel capacity," in: H. Bölcskei, D. Gesbert, C. Papadias, A.-J. van der Veen (Eds.), *Propagation Aspects of MIMO Channel Modelling*. Cambridge University Press, 2006.
9. E. Biglieri and G. Taricco, "MIMO Transmission Systems," in: E. Biglieri, R. Calderbank, G. Constantinides, A. Goldsmith, V. Poor, and J. Paulraj (Eds.), *MIMO Wireless Communications*. Cambridge University Press, 2006.

10. D.Christopoulos, S.Chatzinotas, G.Taricco, M.A. Vázquez, A. Peérez-Neira, P.-D. Arapoglou, and A. Ginesi , "Multibeam joint precoding: Frame-based design," in: S.Chatzinotas, B.Ottersten, and R.De Gaudenzi (Eds.), *Cooperative and Cognitive Satellite Systems*, Elsevier, 2015.

Patents

1. "Procedimento e dispositivo per la decodifica di messaggi a blocchi con correzione di errori", No. 67438-A/87 (domanda depositata in Italia il 20 maggio 1987), brevetto europeo No. EP 0 291 961 sotto il titolo "Method of and Device for Decoding Block-Coded Messages Affected by Symbol Substitutions, Insertions and Deletions."
2. "Procedimento e dispositivo di decodifica con rivelazione di cancellature per sistemi di trasmissione multilivello", No. 68104-A/87 (domanda depositata il 22 dicembre 1987), brevetto europeo No. EP 0 323 606 sotto il titolo "Decoding Method and Device with Erasure Detection for Multilevel Transmission Systems."

Conference papers

1. G. D'Aria, G. Taricco, and V. Zingarelli, "Burst error characteristics of narrowband digital systems in land mobile radio," *IEEE Vehicular Technology Conference '86*, Dallas (TX), May 1986.
2. G. D'Aria, G. Taricco, and V. Zingarelli, "Performance and burst error characteristics of PAM/FM in mobile radio systems," *IEEE GLOBECOM '86*, Houston (TX), December 1986.
3. M. Codogno, G. Pirani, and G. Taricco, "An application of error-correcting coding to the recognition of spoken sequences of digits," *EUSIPCO (European Signal Processing Conference)*, Grenoble (Francia), Sept. 1988.
4. M. Ajmone Marsan and G. Taricco, "PROPHET: A tool for the performance evaluation of protocol hierarchies in the PROMETHEUS scenario," *2nd PROMETHEUS Workshop*, Stockholm, October 30-31, 1989.
5. Coda and G. Taricco, "Simulation of data communication in the Hand-Shake project," *3rd PROMETHEUS Workshop*, Torino, April 26-27, 1990.
6. M. Ajmone Marsan, F. Neri, and G. Taricco, "A Simulation Study of the CRMA Protocol," *Fourth IEEE Workshop on Metropolitan Area Networks*, Captiva Island, FL (USA), November 1990.
7. M. Ajmone Marsan and G. Taricco, "PROPHET: A tool for the simulation of communication protocols in vehicle networks," *5th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation*, Italy, February 1991.
8. M. Ajmone Marsan, F. Neri, M. Perino, and G. Taricco, "Simulation and analysis of the CRMA protocol," *International Workshop on Advanced Communications and Applications for High Speed Networks*, pp. 261-72, Munich, Germany, March 1992.
9. G. Taricco, "Simulazione di tre protocolli a livello MAC per reti radio mobili cellulari," *I Convegno Nazionale Progetto Finalizzato Trasporti 2 del Consiglio Nazionale delle Ricerche*, Roma, 19-21 ottobre 1993, pp. 2615-2633.
10. G. Taricco, E. Biglieri and V. Castellani, "Applicability of four-dimensional modulations to digital satellites: A simulation study," *IEEE GLOBECOM '93 - Communication Theory Mini-Conference*, Houston (TX), Nov. 29-Dec. 2, 1993, pp. 28-34.
11. G. Taricco, "On the weight distribution of the iterated product of single-parity-check codes," *6th JCCC Selva di Valgardena (BZ)*, Feb. 26 - March 5, 1994.
12. E. Biglieri, G. Caire and G. Taricco, "On the convergence of the iterated decoding algorithm," *SBT/IEEE International Telecommunications Symposium*, Rio de Janeiro, Brasil, August 22-25, 1994, pp. 78-82.
13. M. Elia and G. Taricco, "Generalized minimum distance decoding of Golay-coded M-PSK schemes over the rayleigh fading channel," *ICUPC '94 - International Conference on Universal Personal Communications*, San Diego - CA, USA, Sept. 27-Oct. 1, 1994, pp. 178-182.

14. M. Elia and G. Taricco, "Complete decoding of the (23,12,7) Golay code with the correction of errors and erasures," *EUROCODE '94*, L'abbaye de La Bussière sur Ouche, Côte d'Or, France, Oct. 24-28 1994.
15. G. Caire, G. Taricco and G. Battail "Weight distribution and performance of the iterated product of single-parity-check codes," *EUROCODE '94*, L'abbaye de La Bussière sur Ouche, Côte d'Or, France, Oct. 24-28 1994.
16. G. Caire, G. Taricco and G. Battail, "Weight distribution and performance of the iterated product of single-parity-check codes," *IEEE GLOBECOM '94 - Communication Theory Mini-Conference*, San Francisco, USA, Nov. 28-Dec. 2, 1994, pp. 206-211.
17. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "A multi-user approach to combating co-channel interference in narrowband mobile communications," *7th International Tyrrhenian Workshop on Digital Communications*, Viareggio, Italy, Sept. 10-14, 1995, p. 308-320.
18. J. Ventura-Traveset, G. Caire, E. Biglieri and G. Taricco, "Synergy of diversity reception and coded modulation in mobile communication channels," *Proceedings of European Personal and Mobile Communications Conference EPMCC '95*, Bologna, Italy, Nov. 28-30, 1995.
19. E. Biglieri, G. Caire and G. Taricco, "On the convergence of the iterated decoding algorithm," *IEEE ISIT 1995*, Whistler, British Columbia, Canada, Sept. 17-22, 1995, p. 472.
20. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "Are fading codes essential?" *Mediterranean Workshop on Coding and Information Integrity*, Palma de Mallorca, Spain, Feb. 28 - March 1, 1996.
21. G. Caire, E. Biglieri, and G. Taricco, "The iterated decoding algorithm," *Mediterranean Workshop on Coding and Information Integrity*, Mallorca, Spain, Feb. 28-March 1, 1996.
22. G. Caire, E. Biglieri, G. Taricco, and J. Ventura, "A multi-user approach to narrowband cellular communications," *30th Annual Conference on Information Sciences and Systems*, Princeton NJ, USA, March 20-22, 1996.
23. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "Are fading codes essential?" *International Telecommunications Conference*, Istanbul, Turkey, April 13-17, 1996.
24. J. Ventura, G. Caire, E. Biglieri, and G. Taricco, "Are fading codes essential?" *IEEE Communication Theory Workshop*, Destin, FL, April 14-17, 1996.
25. E. Biglieri, G. Caire, G. Taricco, J. E. Häkegård, and J. Ventura-Traveset, "System capacity enhancement by using multiuser processing techniques in narrowband satellite mobile communications," *Fifth International Conference on Satellite Systems for Mobile Communications and Navigation*, London, UK, May 13-15, 1996.
26. G. Taricco and E. Biglieri, "Coded-modulation schemes for unequal error protection in radio communications," *25th URSI General Assembly*, Lille, France, Aug. 28 - Sept. 5, 1996.
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