

APPENDIX A BIBLIOGRAPHY

- [1] S. Moshavi, "Multi-user detection for DS-CDMA communications," *IEEE Communications Magazine*, pp. 124-136, Oct. 1996.
- [2] "Minimum Bit Error Rate Multiuser Detection in Multiple Antenna Aided OFDM" M.Y.Alias, A.K. Samangan, S.Chen, L. Hanzo, Dept of ECS., Univ . of Southampton, SO17 1BJ, UK.
- [3] T. Ojanpera, K. Rikkinen, H. Hakkinen, K. Pehkonen, A. Hottinen, J. Lilleberg, "Design of a 3rd Generation Multirate CDMA System with Multiuser Detection," *MUD-CDMA, Proceedings of the 1996 IEEE 4th International Symposium on Spread Spectrum Techniques and Applications*, vol. 1, pp. 334-338, 1996.
- [4] C. Shannon, "A Mathematical Theory of Communication," *Bell Syst. Tech. Journal*, vol. 27, pp. 379-423, July 1948 and vol. 27, pp. 623-656, Oct. 1948.
- [5] S. Verdu, *Multiuser Detection*, Cambridge University Press, Cambridge, UK, 1998.
- [6] Fredrik Nordström, *Interferer Detection and Cancellation in TDMA-Systems*, PhD thesis, Centre for Mathematical Sciences, Lund University, Sweden, 2002.
- [7] David Gesbert, Mansoor Shafi, "From Theory to Practice: An Overview of MIMO Space Time Coded Wireless Systems" *IEEE Journal on selected areas in Communications*, vol. 21, No. 3, April 2003.
- [8] "MSE Extension of V-BLAST based on Sorted QR decomposition", Dirk Wubben, Volker Bohnke, Volker Kuhn, and Karl-Dark Kammeyer, Dept. of Communication Engineering, University of Bremen, Otto-Hahn-Allee, D-28357 bremen, Germany.
- [9] K.Yu, M. Bengtsson, B. Ottersten, D. McNamara, P. Karlsson, and M.Beach, "A wideband statistical model for NLOS indoor MIMO channels," in *Proc. IEEE 55th Veh. Technol. Conf. Birmingham, AL*, vol.1, May6-9, 2002, pp.370-374.
- [10] Foschini G.J. and M.J. Gans, "On Limits of Wireless Communications in a Fading Environment When Using Multiple Antennas", *Wireless Personal Communications*, Volume 6, March 1998, no. 3, pp. 311-335.
- [11] M. Uysal, N. Al-Dhahir and C.N. Georgiades, "A space-time block coded OFDM scheme for unknown frequency-selective fading channels", *IEEE Communications Letters*, Vol. 5, No. 10, Oct. 2001, pp. 393-395.
- [12] H.Che, R.Prasad, L.P.Ligthart, "A Strategy for Adaptive Modulation Algorithms Using Rician K Gain of MIMO", submitted to *IEEE Microwave and Wireless Components Letter*.
- [13] H.Che, A.Nassereddine, H.Nikookar, R.Prasad, L.P.Ligthart, "Another Parameter Representing QoS Gain of MIMO System" *European Microwave Week-European Conference on Wireless Technology (ECWT) 2004, Amsterdam, the Netherlands*;

APPENDIX A - BIBLIOGRAPHY

- October 2004.
- [14] H.Che, M.Hajian, L.P.Ligthart, R.Prasad, "Software radio is walking into implementation stage", 12th Tyrrhenian International Workshop on Digital Communications "Software Radio Technologies and Services", Portoferraio, Italy; September 2000, invited paper.
 - [15] "TURBO-BLAST for Wireless Communication: Theory and Experiments", Mathini Sellathuraim, Member, IEEE, and Haykin, Fellow, IEEE
 - [16] 'Log-Likelihood Ratio based Detection Ordering for the V-BLAST', Sang Wu Kim, Dept. of Electrical and Computer Engineering, Iowa State University, Ames, Iowa 50011.
 - [17] <http://www.bwif.org/> (Broadband Wireless Internet Forum)
 - [18] Paulraj, A. and Kailath, T. , "Increasing capacity in wireless broadcast systems using distributed transmission/directional reception," U. S. Patent, no. 5,345,599, 1994
 - [19] Gesbert, D., Bolcskei, H., Gore, D., and Pauraj, A., "MIMO wireless channels: capacity and performance prediction," Global Telecommunications Conference, 2000. GLOBECOM'00. IEEE, Vol. 2, pp. 1083-1088, 2000
 - [20] Wolniansky, P. W., et al, "V-BLAST: An architecture for realizing very high data rates over the rich-scattering wireless channel," Proc. IEEE ISSSE-1998, Pisa, Italy, 30 September 1998.
 - [21] www.hut.fi/Units/Radio/courses/S26300/3A.pdf
 - [22] Bolcskei, H. and Paulraj, A., "Multiple -Input Multiple-output (MIMO) wireless systems," In J. Gibson, editor, *The communications Handbook*. CRC Press, 2001
 - [23] Bello P. (1963) Characterization of Randomly Time-Variant Linear Channels. *IEEE Transactions on Communication Systems*, pp. 360-393.
 - [24] Chizhik D., Foschini G.J., Gans M.J. & Valenzuela R.A. (2002) Keyholes, Correlations, and Capacities of Multielement Transmit and Receive Antennas. *IEEE Transactions on Wireless Communications*, pp. 361-368.
 - [25] Telatar I.E. (1999) Capacity of Multi-antenna Gaussian Channels. *European Transactions on Telecommunications*.
 - [26] C. Darwin, *On the Origin of Species*. London: John Murry, 185.
 - [27] U. Hammel and H.P. Schwefel. "Evolutionary computation: comments on the history and current state." *IEEE Transactions on Evolutionary Computation*, Vol. 1.
 - [28] I. Rechenberg, "Cybernetic solution path of an experimental problem," tech. rep. Ministry of Aviation, Royal Aircraft Establishment, U.K., 1965.
 - [29] H.P. Schwefel. *Evolutionsstrategie and numerische optimierung*. PhD thesis, Technische Universitat Berlin, 1975
 - [30] L. Fogel. A.J. Owens and M.J. Walsh. *Artificial Intelligence through simulated Evolution*. New York : johnWiley, 1966
 - [31] J. Holland. *Adaptation in Natural and Artificial Systems*. Ann Arbor, Michigan : University of Michigan Press, 1975

APPENDIX A - BIBLIOGRAPHY

- [32] D.E. Goldberg. *Genetic Algorithms in Search, optimization, and Machine Learning*. Reading, Massachusetts: Addison-Wesley, 1999
- [33] B.L. Milder and D.E. Goldberg. "Genetic Algorithms, selection schemes, and varying effects of noise" *Evolutionary computation*, vol-4.
- [34] M.D. Vose and G.E. Liepins, "Punctuated equilibria in Genetic search," *Complex Systems*, vol-4
- [35] G. Harik, E. Cantu-Paz, D.E. Goldberg and B.L. Milder, "The gamblers ruin problem, Genetic Algorithms. And the sizing of population," in *proceeding of the IEEE Conference on Evolutionary Computation* (T. Back, ed.). (New York)
- [36] R. Tanese, "Distributed Genetic Algorithms for Function Optimization". PhD thesis, University of Michigan, 1989
- [37] M. Mitchell, "An introduction to Genetic Algorithms" Cambridge, Massachusetts: MIT Press, 1996.
- [38] J.E. Baker. "Adaptive selection methods for genetic algorithms," in *Proceedings of the first International Conference on Genetic Algorithms and their applications* (J.J. Grefenstette, ed.), (New Jersey, USA).
- [39] T. Bickel and L. Thiele, "A Comparison of Selection schemes used in evolutionary algorithms," *Evolutionary Computation* vol-4.
- [40] D.E. Goldberg and K. Deb, *foundations of Genetic Algorithms, A comparative analysis of Selection Schemes Used in Genetic Algorithms*. California, USA: G. Rawlins, ed. Morgan Kaufmann. 1991.
- [41] S. Verdu, *Multi-user detection*. New York, USA: Cambridge University Press, 1998.
- [42] J.G. Proakis, *Digital Communication*. Mc-Graw Hill International Edition, 3rd ed. 1995
- [43] Book: *Mobile Communication* by Jochen Schiller
- [44] Book: *Modern Digital and Analog Communication Systems* by B.P. Lathi
- [45] *Single and Multi-Carrier DS-CDMA* by L. Hanzo, L-L. Yang, K. Yen
- [46] L. Hanzo et al., *Single & Multi-Carrier DS-CDMA*, IEEE Press, John Wiley & Sons Ltd., England, 2003.
- [47] S. Moshavi, "Multi-user Detection for DS-CDMA communications", *IEEE communication Magazine*, pp. 124-136, Oct. 1996.
- [48] V. Poor and S. Verdu, "Probability of error in MMSE multiuser detection," *IEEE Trans. Signal Processing*, Vol. 49.
- [49] Juntti, M.J. Latva-Aho, "Multiuser receivers for CDMA systems in Rayleigh fading channels" *IEEE Transaction on* Volume 49, Issue 3, May '00 Page(s): 885-899
- [50] R. Lupas and S. Verdu, "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," *IEEE Transaction. Info Theory*, Vol. 35, pp.

APPENDIX A - BIBLIOGRAPHY

- 123-136, January 1989.
- [51] Jack Holtzman and A.D-Hallen, "Multiuser Detection for CDMA Systems", *IEEE Personal Communication*, April 1995.
 - [52] Halil Tanyar Eyyuboglu, "MATLAB simulation of mutliuser detection in CDMA,," *WORLD INFORMATICA SOCIETY*,2004.
 - [53] Y.Kabashima, " A and T. Tanaka, "Iterative Multiuser Joint Decoding: Opimal Power Allocation and Low- CDMA Multiuser detection algorithm on the basis of belief propogation," *J. Phys. A: Math. Gen.*, Vol.36, pp. 11111-11121, Oct.2003.
 - [54] G. Caire, R. Muller Complexity Implementation," *submitted IEEE Tans. On Inform. Theory*, Mar.2003.
 - [55] M. K. Varanasi and B. Aazhang, *Near-optimum detection in synchronous code-division multiple access systems*, *IEEE Trans. Commum.* Vol.39, pp. 725-736, May. 1991.
 - [56] A. Duel-Hallen, *Decorrelating Decision Feedback Multiuser Detector for synchronous code-division multiple access channel*, *IEEE Trans. Commun.*, Vol. 41, pp. 285-290, Feb.1993.
 - [57] Y. Bar-Shamon, and X. R. Li, *Estimation and Tracking: Principles, Technique and Software*, Artech House, Dedlham, May-1993.
 - [58] M.K. Varansi, *Group Detection for synchronous Gaussian Code-Division Multiple Access Channels*, *IEEE Trans. Infrom. Theory*, Vol. 44, pp. 1083-1096, July-1995.
 - [59] M.K. Varansi, *Decision Feedback Multiuser Detection: A systematic approach*, *IEEE Trans. Inform. Theory*, Vol. 45, pp. 219-240, Jan-1999.
 - [60] G. Levchuk, P. Willet, *A class of coordinate Descent Methods for Multiuser Detection*, *ICASSP2000, Istanbul, Turkey*, June 2000.
 - [61] S. Ulukus, R. Yates, *Optimum multiuser detection is tractable for synchronous CDMA systems using M-sequences*, *IEEE Commun. Latt.* Vol. 2, pp. 89-91, '98
 - [62] Peng Hui Tan, "Multi-user Detection Based On Reduced Complexity Probabilistic Data Association", *Department of Computer Engineering, Chalmers University of Technology, Sweden*