



People>Yuan

Prof. Jinhong Yuan

Address:

School of Electrical Engineering and Telecommunications
The University of New South Wales
SYDNEY NSW 2052
AUSTRALIA

Email: j(dot)yuan(at)unsw(dot)edu(dot)au

Phone: +61 2 9385 4244

Fax: +61 2 9385 5993

Employment History:

- **The University of Sydney**, Research Fellow, 1997-2000
- **The University of New South Wales**, Lecturer, 2000-2001
- **The University of New South Wales**, Senior Lecturer, 2002-2005
- **The University of New South Wales**, Assoc. Professor, 2006-2009
- **The University of New South Wales**, Professor, 2010-

Membership:

- IEEE FELLOW
- Editor for IEEE Transactions on Communications 2012-now
- Editor for European Transactions on Telecommunications 2011-now
- Guest Editor for EURASIP Journal on Wireless Communications and Networking, 2008
- Editor for ETRI Journal, South Korean, Oct. 2006- Sept. 2009
- A TPC Member of IEEE ICC 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 Globecom 2003, 2004, 2005, 2007, 2008, 2009, 2010, 2011, VTC2004 2005, 2006 2007 , etc
- TPC CO-CHAIR FOR IEEE ICC WCS 2014
- TPC CO-CHAIR FOR IEEE GLOBECOM CTS 2016
- TUTORIAL CHAIR FOR IEEE VTC 2017 SPRING
- General Chair of the 10th Australian Communications Theory Workshop 2009, Sydney
- Chair of Communications Theory Symposium of The 13th IEEE international conference on communication technology (ICCT)
- Program Chair of Information and Coding Theory of the 7th International Conference on Communications and Networking in China(ChinaCOM 2012)
- General Chair for ACoRN workshop on cooperative wireless communications in 2007 in Sydney, 2008 in Melbourne, 2009 in NICTA at Australian Technology Park, and 2014 in Sydney

Research Interest:

- Mobile and Wireless Communications
- Information Theory
- Turbo Coding and Iterative Processing

- Space Time Coding and MIMO Techniques
- Wideband CDMA and OFDM

Awards:

2011: Best Paper Award of IEEE Wireless Communications and Networking Conference (WCNC), Cancun, Mexico, 2011. G. Wang, W. Xiang, J. Yuan, and T. Huang, "Outage Performance of Analog Network Coding in Generalized Two-way Multi-Hop Networks".

2007: Best paper award of IEEE International Symposium on Wireless Communications Systems (ISWCS), October 2007, Trondheim, Norway. I. Nevat and J. Yuan, "Error Propagation Mitigation for Iterative Channel Tracking, Detection and Decoding of BICM-OFDM Systems", Proceedings of IEEE International Symposium on Wireless Communications Systems (ISWCS), October 2007, Trondheim, Norway. (Sponsored jointly by IEEE Communications Society and IEEE Vehicular Technologies Society)

2007: Best paper award of International conference on wireless broadband and ultra wideband communications, Sept. 2007, Sydney, Australia. K. Huang, and J. Yuan, "Power Allocation for MMSE Feedback Precoder on Multi-Antenna Broadcast Channels", International conference on wireless broadband and ultra wideband communications, Sept. 2007, Sydney, Australia

2001: Anthony Mason International Fellowship, the University of New South Wales

1997: Norman I Fellowship, the University of Sydney

1996: Young Scientist Award of Chinese Institute of Electronics for a research paper

Publications:

- **Books**
- **Book Chapters**
- **Editorials**
- **Selected Journals**
- **Refereed Conferences**
- **Patents**

Books:

[Top](#)

- Branka Vucetic and Jinhong Yuan, **TURBO CODING: PRINCIPLES AND APPLICATIONS**, Kluwer Academic Publishers, May 2001.
- Branka Vucetic and Jinhong Yuan, **SPACE-TIME CODING**, John Wiley & Sons, April 2003.

Book Chapters:

[Top](#)

- **J. Yuan**, B. Vucetic, W. Feng, and M. Tan, Chapter 2. Design of Cyclic-shift interleavers for turbo codes, (pp. 10-28), Edited by Michel Jezequel and Ramesh Pyndiah, *Turbo Codes: Error-Correcting Codes of Widening Application*, Hermes Penton Science, 2002.
- K. Huang, and **J. Yuan**, Chapter 6. Power Allocation for MMSE Feedback Precoder on Multi-Antenna Broadcast Channels, (pp. 133-152) J. Agbinya et al. Ed., The River Publishers' Series in Communications on Advances on Broadband Communication and Networks, 2008.
- G. Geraci, and **J. Yuan**, Chapter 6. Physical Layer Security for Multiuser MIMO Communications, Recent Trends in Multi-user MIMO Communications, (pp.141-156), ISBN 978-953-51-1210-5, edited by Maha Ben Zid, Recent Trends in Multi-user MIMO Communications, 2013.

Editorial:

[Top](#)

- Y. Li, **J. Yuan**, A. Stefanov, and B. Vucetic, *Advanced Error Control Coding Techniques*, EURASIP Jour. on Wireless Communications and Networking, 2008.
- X. Cheng, **J. Yuan**, A. Tajer, A. Hu, W. Zhou, Special issue on recent advances in network and information security-security and communication networks journal, Security and Communication Networks 8(1):1-10 Jan 2015

- **J. Yuan**, Y. Yang and N. Zhou, Special Topic: Physical layer security for wireless and quantum communications, ZTE Communications, vol. 11, no. 3, Sept. 2013.

Selected Journal Papers:

Top

1. H. Deng, H. M. Wang, **J. Yuan**, W. Wang, Q. Yin, Secure Communication in Uplink Transmissions: User Selection and Multiuser Secrecy Gain. *IEEE Transactions on Communications*, 2016, 64(8), 3492-3506. doi:[10.1109/TCOMM.2016.2585128](https://doi.org/10.1109/TCOMM.2016.2585128)
2. L. Yang, T. Yang, Y. Xie, **J. Yuan**, and J. An, Linear physical-layer network coding and information combining for the K-user fading multiple-access relay network. *IEEE Transactions on Wireless Communications*, 2016, 15(8), 5637-5650.
3. F. K. Gong, G. Li, J. Ge, and **J. Yuan**, Distributed Concatenated Recursive Alamouti-Circulant STBC for Two-Way Multi-Relay Networks. *IEEE Transactions on Communications*, 2016, 64(8), 3262-3274. doi:[10.1109/TCOMM.2016.2589269](https://doi.org/10.1109/TCOMM.2016.2589269)
4. D. Jia, Z. Fei, **J. Yuan**, S. Tian, and J. Kuang, A Hybrid EF/DF Protocol With Rateless Coded Network Code for Two-Way Relay Channels. *IEEE Transactions on Communications*, 2016, 64(8), 3133-3147. doi:[10.1109/TCOMM.2016.2583422](https://doi.org/10.1109/TCOMM.2016.2583422)
5. L. Yang, T. Yang, Y. Xie, **J. Yuan** and J. An, Multiuser Decoding Scheme for K-user Fading Multiple-Access Channel Based on Physical-Layer Network Coding. *IEEE Communications Letters*, 2016, 20(5), 1046-1049. doi:[10.1109/LCOMM.2016.2542132](https://doi.org/10.1109/LCOMM.2016.2542132)
6. Y. Xie, L. Yang and **J. Yuan**, Q-Ary Chain-Containing Quantum Synchronizable Codes. *IEEE Communications Letters*, 2016, 20(3), 414-417. doi:[10.1109/LCOMM.2015.2512261](https://doi.org/10.1109/LCOMM.2015.2512261)
7. H. Wang, T. Zheng, **J. Yuan**, D. Towsley and M. Lee, Physical Layer Security in Heterogeneous Cellular Networks. *IEEE Transactions on Communications*, 2016, 64(3), 1204-1219. doi:[10.1109/TCOMM.2016.2519402](https://doi.org/10.1109/TCOMM.2016.2519402)
8. Y. Xie, L. Yang, P. Kang, & **J. Yuan**, Euclidean geometry based spatially-coupled LDPC codes for storage. *IEEE Journal on Selected Areas in Communications*, vol. 34, no. 9, Sept. 2016, pp. 2498-2509. doi:[10.1109/JSAC.2016.2603703](https://doi.org/10.1109/JSAC.2016.2603703)
9. Y. Liu, Z. Ding, M. ElKashlan, and **J. Yuan**, Non-orthogonal multiple access in large-scale underlay cognitive radio networks, *IEEE Transactions on Vehicular Technology*, Feb. 2016.
10. N. Yang, M. ElKashlan, T. Q. Duong, J. Yuan, and R. Malaney, Optimal transmission with artificial noise in MISOME wiretap channels, *IEEE Transactions on Vehicular Technology*, April 2016, vol 65, no. 4, pp. 2170-2181.
11. T. Zheng, H. Wang, **J. Yuan**, D. Towsley and M. Lee, Multi-Antenna Transmission with Artificial Noise Against Randomly Distributed Eavesdroppers, *IEEE Transactions on Communications*, vol. 63, no. 11, pp. 4347-4362, 2015.
12. S. Yan, N. Yang, G. Geraci, R. Malaney, and **J. Yuan**, Optimization of Code Rates in SISOME Wiretap Channels, *IEEE Transactions on Wireless Communications*, vol. 14, no. 11, pp. 6377-6388, 2015.
13. B. He, N. Yang, X. Zhou, and **J. Yuan**, Base Station Cooperation for Confidential Broadcasting in Multi-Cell Networks, *IEEE Transactions on Wireless Communications*, vol. 14, no. 10, pp. 5287-5299, 2015.
14. L. Yang, T. Yang, **J. Yuan**, and J. An, Achieving the near-capacity performance of two-way relay channels with modulation-coded physical-layer network coding, *IEEE Transactions on Wireless Communications*, vol. 14, no. 9, pp. 5225-5239, 2015
15. M. Shirvanimoghaddam, Y. Li, B. Vucetic, and **J. Yuan**, Binary Compressive Sensing Via Analog Fountain Coding, *IEEE Transactions on Signal Processing*, vol. 63, no. 24, pp. 6540-6552, 2015.
16. L. Yao, N. Yang, M. ElKashlan, and **J. Yuan**, Partial Channel Quality Information Feedback in Multiuser Relay Networks over Nakagami-m Fading, *IEEE Transactions on Wireless Communications*, vol. 14, no. 9, pp. 4783-4796, 2015.

17. J. Guo, T. Yang, **J. Yuan** and J. Zhang, Linear Vector Physical-Layer Network Coding for MIMO Two-Way Relay Channels: Design and Performance Analysis, *IEEE Transactions on Communications***63**(7):2591-2604 01 Jul 2015
18. C. Liu, N. Yang, **J. Yuan**, and R. Malaney, Location-Based Secure Transmission for Wiretap Channels, *IEEE Journal on Selected Areas in Communications*, **33**(7):1458-1470 01 Jul 2015
19. N. Yang, S. Yan, **J. Yuan**, R. Malaney, R. Subramanian, I. Land, Artificial noise: Transmission optimization in multi-input single-output wiretap channels, *IEEE Transactions on Communications*,**63**(5):1771-1783 01 May 2015
20. N. Yang, L. Wang, G. Geraci, M. El Kashlan, **J. Yuan**, M. Di Renzo, Safeguarding 5G wireless communication networks using physical layer security, *IEEE Communications Magazine*, **53**(4):20-27 01 Apr 2015
21. G. Wang, W. Xiang, **J. Yuan**, Multihop compute-and-forward for generalised two-way relay channels, *Transactions on Emerging Telecommunications Technologies***26**(3):448-460 01 Mar 2015
22. J. Li, **J. Yuan**, R. Malaney, Wireless network coding design based on LDPC codes for a multiple-access relaying system, *Transactions on Emerging Telecommunications Technologies***26**(3):380-388 01 Mar 2015
23. T. Yang, Q. T. Sun, **J. Yuan**, J. A. Zhang, A Linear Network Coding Approach for Uplink Distributed MIMO Systems: Protocol and Outage Behavior, *IEEE Journal on Selected Areas in Communications***33**(2):250-263 01 Feb 2015
24. I. Nevat, G. W. Peters, A. Doucet, **J. Yuan**, Joint channel and Doppler offset estimation in dynamic cooperative relay networks, *IEEE Transactions on Wireless Communications*, vol. 13, no. 12, pp. 6570-6579, Dec 2014
25. A. Razi, D. J. Ryan, **J. Yuan** and I. Collings, Sum rates for multi-user MIMO vector perturbation precoding with regularization, *Physical Communication*, vol. 13, Dec. 2014, pp. 187-196.
26. C. Cao, Z. Fei, **J. Yuan**, J. Kuang, Low complexity list successive cancellation decoding of polar codes, *IET Communications***8**(17):3145-3149 27 Nov 2014
27. M. Huang, and **J. Yuan**, Error Performance of Physical-Layer Network Coding in Multiple-Antenna TWRC, *IEEE Transactions on Vehicular Technology***63**(8):3750-3761 Oct 2014
28. G. Wang, W. Xiang, **J. Yuan**, Generalized Wireless Network Coding Schemes for Multihop Two-Way Relay Channels, *IEEE Transactions on Wireless Communications***13**(9):5132-5147 Sep 2014
29. F. Dong, A. Burr, **J. Yuan**, Linear Physical-Layer Network Coding Over Hybrid Finite Ring for Rayleigh Fading Two-Way Relay Channels, *IEEE Transactions on Communications***62**(9):3249-3261 Sep 2014
30. N. Yang, G. Geraci, **J. Yuan**, R. Malaney, Confidential Broadcasting via Linear Precoding in Non-Homogeneous MIMO Multiuser Networks, *IEEE Transactions on Communications***62**(7):2515-2530 Jul 2014
31. Q. Wang, D-W Yue, **J. Yuan**, An optimal cooperative spectrum sensing strategy with exponential primary link traffic, *Wireless Communications and Mobile Computing***14**(8):789-802 10 Jun 2014
32. G. Geraci, H. S. Dhillon, JG Andrews, **J. Yuan**, Collings IB, Physical Layer Security in Downlink Multi-Antenna Cellular Networks, *IEEE Transactions on Communications***62**(6):2006-2021 Jun 2014
33. G. Geraci, S. Singh, J. Andrews, **J. Yuan**, I. B. Collings, Secrecy Rates in Broadcast Channels with Confidential Messages and External Eavesdroppers, *IEEE Transactions on Wireless Communications***13**(5):2931-2943 May 2014
34. S. Yan, N. Yang, R. Malaney, and **J. Yuan**, "Transmit antenna selection with Alamouti coding and power allocation in MIMO wiretap channels," *IEEE Trans. Wireless Communications*, **13**(3):1656-1667 Mar 2014

35. L. Wang, N. Yang, M. ElKashlan, P. L. Yeoh, and **J. Yuan**, "Physical layer security of maximal ratio combining in two-wave with diffuse power fading channels," *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 2, pp. 247-258, Feb. 2014
36. M. A. Karim, **J. Yuan**, Z. Chen, and J. Li, Distributed Space-Time Code with Mutual Information Based Soft Information Relaying, *IEEE Communications Letters*, **17**(12):2276-2279, Dec 2013
37. N. Yang, M. ElKashlan, P. L. Yeoh, and **J. Yuan**, "An introduction to transmit antenna selection in MIMO wiretap channels," Invited Paper for *ZTE Communications*, vol. 11, no. 3, pp. 26-32, Sept. 2013
38. J.A. Zhang, I.B. Collings, C. Chen, L. Roullet, L. Luo, S. Ho and **J. Yuan**, "Evolving Small-Cell Communications Towards Mobile-Over-FTTx Networks", *IEEE Communications Magazine*, vol. 51, no. 12, pp. 92-101, Dec 2013.
39. Q. T. Sun, T. Huang, and **J. Yuan**, On Lattice-Partition-Based Physical-Layer Network Coding over GF(4), *IEEE Communications Letters*, vol. 17, No. 10, Oct 2013, pp. 1988-1991
40. N. Yang, P. L. Yeoh, M. ElKashlan, R. Schober, and **J. Yuan**, MIMO Wiretap Channels: Secure Transmission Using Transmit Antenna Selection and Receive Generalized Selection Combining, *IEEE Communications Letters*, vol. 19, no. 9, Sept 2013, pp. 1754-1757.
41. Z. Fei, A. Yang, C. Xing, **J. Yuan**, J. Kuang, "Performance of Superposition Coding for Downlink Coordinated Two-Point System", *IEEE Transactions on Vehicular Technology*, vol. 62, no. 8, Oct 2013, pp. 4057-4064.
42. G. Geraci, A. Y. Al-nahari, **J. Yuan**, and I. Collings, Linear Precoding for Broadcast Channels with Confidential Messages under Transmit-Side Channel Correlation, *IEEE Communications Letters*, Vol. 17, No. 6, pp. 1164-1167, June 2013.
43. G. Geraci, R. Couillet, **J. Yuan**, M. Debbah, and I. B. Collings, Large System Analysis of Linear Precoding in MISO Broadcast Channels with Confidential Messages, *IEEE Journal on Selected Areas in Communications-PHYSEC*, vol 31, no. 9, Sept 2013, pp. 1660-1671.
44. M. H. Azmi, J. Li, **J. Yuan**, and R. Malaney, LDPC codes for soft decode-and-forward in half-duplex relay channels, *IEEE Journal on Selected Area in Communications*, in Special Issue on Theories and Methods for Advanced Wireless Relays, vol. 31, no. 8, Aug. 2013, pp. 1402-1413
45. Q. T. Sun, **J. Yuan**, T. Huang, and K. W. Shum, Lattice Network Codes Based on Eisenstein Integers, *IEEE Transactions on Communications*, vol. 61, no. 7, Jul 2013, pp. 2713-2725
46. A. Yang, Z. Fei, C. Xing, M. Xiao, **J. Yuan**, and J. Kuang, Design of Binary Network Codes for Multi-user Multi-way Relay Networks, *IEEE Transactions on Vehicular Technologies*, vol. 62, no. 8, Oct 2013, pp. 3786-3799
47. J. Li, W. Chen, A. Nersisyan, **J. Yuan**, On The Throughput-Reliability Tradeoff for Amplify-and-Forward Cooperative Systems, *IEEE Transactions on Communications*, Vol. 61, no. 4, April 2013, pp.1290-1303.
48. T. Yang, X. Yuan, P. Li, I. B. Collings and **J. Yuan**, A new physical-layer network coding scheme with eigen-direction alignment precoding for MIMO two-way relaying, *IEEE Transactions on Communications*, vol 61, no 3, Mar. 2013, pp.973-986
49. G. Wang, W. Xiang, and **J. Yuan**, "Multi-Hop Compute-and-Forward for Generalized Two-Way Relay Channels," *Transactions on Emerging Telecommunications Technologies*, Apr. 2013.
50. J. Li, M. A. Karim, **J. Yuan**, Z. Chen, Z. Lin, B. Vucetic, "Novel Soft Information Forwarding Protocols in Two-Way Relaying Channels," *IEEE Transactions on Vehicular Technology*, vol. 62, no. 5, May 2013, pp. 2374-2381.

51. J. Li, **J. Yuan**, and R. Malaney, "Wireless Network Coding Design based on LDPC Codes for a Multiple-Access Relaying System," *European Transactions on Emerging Telecommunications Technologies*, Jan 2013.
52. T. Huang, T. Yang, **J. Yuan**, and I. Land, Design of irregular repeat-accumulate coded physical-layer network coding for Gaussian Two-way relay channels, *IEEE Transactions on Communications*, vol. 61, no. 3, Mar. 2013, pp. 897-909.
53. J. C. F. Li, W. Zhang, A. Nosratinia, and **J. Yuan**, SHARP: Spectrum harvesting with ARQ retransmission and probing in cognitive radio, *IEEE Transactions on Communications*, vol. 61, no. 3, pp. 951-960, Mar, 2013
54. G. Wang, W. Xiang, and **J. Yuan**, Outage Analysis for Compute-and-Forward in Generalized Multi-Way Relay Channels, *IEEE Communications Letter*, vol. 16, pp. 2099-2102, Dec 2012.
55. James C. F. Li, Wei Zhang, Aria Nosratinia, and **Jinhong Yuan**, SHARP: Spectrum harvesting with ARQ retransmission and probing in cognitive radio, *IEEE Transactions on Communications*, vol. 61, no. 3, Mar 2013, pp. 951-960.
56. Gareth Peters, Ido Nevat, and **Jinhong Yuan**, System Identification in Wireless Relay Networks via Gaussian Process, *IEEE Transactions on Vehicular Technologies*, vol. 61 no. 9, pp. 3969-3983, 2012
57. N. Yang, P. L. Yeoh, M. El Kashlan, **J. Yuan**, and I. B. Collings, "Cascaded TAS/MRC in MIMO multiuser relay networks," *IEEE Transactions on Wireless Communications*, vol. 11, no. 10, Oct 2012, pp. 3829-3839.
58. Q. Wang, Dianwu Yue, and **Jinhong Yuan**, An Optimal Cooperative Spectrum Sensing Strategy with Exponential Primary Link Traffic, *Wireless Communications and Mobile Computing*, April 2012
59. Marwan H. Azmi, Jun Li, **Jinhong Yuan**, and Robert Malaney, LDPC codes for soft decode-and-forward in half-duplex relay channels, *IEEE Journal on Selected Area in Communications*, Special Issue on Theories and Methods for Advanced Wireless Relays, vol. 31, no. 11, Nov. 2013, pp. 2517-2527
60. Giovanni Geraci, Malcolm Egan, **Jinhong Yuan**, Adeel Razi, Iain Collings, Secrecy Sum-Rates for Multi-User MIMO Regularized Channel Inversion Precoding, *IEEE Transactions on Communications*, vol. 60, no. 11, Nov 2012, pp. 3472-3482.
61. N. Yang, M. El Kashlan, Phee Lep Yeoh, and **J. Yuan**, "Multiuser MIMO relay networks in Nakagami-m fading channels," *IEEE Transactions on Communications*, vol. 60, no. 11, Nov 2012, pp. 3298-3310.
62. Jun Li, **Jinhong Yuan**, Robert Malaney, Ming Xiao and Wen Chen, "Full-diversity binary frame-wise Network Coding for Multiple-Source Multiple-Relay Networks over slow-fading channels," vol. 61, no. 3, *IEEE Transactions on Vehicular Technologies*, pp. 1346-1360, 2012.
63. Md Anisul Karim, **Jinhong Yuan**, Zhuo Chen and Jun Li, Soft information relaying in fading channels, *IEEE Wireless Communications Letters*, vol. 1, no. 3, pp. 233-236, June 2012.
64. Tao Yang, Ingmar Land, Tao Huang, **Jinhong Yuan**, and Zhuo Chen, Distance spectrum and performance of channel-coded physical-layer network coding for binary-input Gaussian two-way relay channels, *IEEE Transactions on Communications*, vol. 60, no. 6, pp. 1499-1510, June 2012.
65. Adeel Razi, Yubin Shao, **Jinhong Yuan**: User scheduling for multi-antenna downlink channels with limited feedback. *Trans. European Transactions on Telecommunications, Emerging Telecommunications Technologies (ETT)* 23(1):36-49 (2012)
66. M. H. Azmi, **J. Yuan**, G. Lechner, and L. K. Rasmussen, , Design of Multi-Edge-Type Bilayer-Expurgated LDPC Codes for Decode-and-Forward in Relay Channels, *IEEE Transactions on Communications*, vol. 59, no. 11, pp. 2993 – 3006, 2011
67. J. C. F. Li, **W. Zhang**, and **J. Yuan**, "Opportunistic spectrum sharing in cognitive radio networks based on primary limited feedback," *IEEE Transactions on*

Communications, vol. 59, no. 10, October, pp. 3272-3277, 2011

68. G. Wang, W. Xiang, **J. Yuan**, and T. Huang, "Outage Analysis of Non-Regenerative Analog Network Coding for Two-Way Multi-Hop Networks", *IEEE Communications Letters*, vol. 15, no. 6, pp. 662-664, 2011.
69. Jun Li, **Jinhong Yuan**, Robert Malaney, Marwan H. Azmi, and Ming Xiao, "Network Coded LDPC Code Design for a Multi-source Relaying System," *IEEE Transactions on Wireless Communications*. vol. 10, no. 5, pp. 1538-1551, 2011
70. N. Yang, M. ElKashlan, and **J. Yuan**, "Impact of Opportunistic Scheduling on Cooperative Dual-Hop Relay Networks ", *IEEE Transactions on Communications*, vol. 59, no. 3, Mar 2011, pp. 689-694.
71. D. Yue, **J. Yuan**, "On the power of MIMO broadcast systems under SNR constraints with limited feedback", *IEEE Transactions on Vehicular Technologies*, vol. 60, no. 1, pp. 349-353, Jan. 2011
72. T. Yang, **J. Yuan**, and W. Zhang, "Recovering cooperative multiplexing gain in wireless relay networks" *IEEE Transactions on Communications*, vol. 58, no. 12, pp. 3538-3549, Dec. 2010
73. G.W. Peters, I. Nevat, S. Sisson, Y. Fan and **J. Yuan**, "Bayesian symbol detection in wireless relay networks via likelihood-free inference," *IEEE Transactions On Signal Processing*, vol. 58, no. 10, pp. 5206-5218, Oct. 2010.
74. Md. A. Karim, T. Yang, **J. Yuan**, Z. Chen, and I. Land "A Novel Soft Forwarding Technique for Memoryless Relay Channels Based on Symbol-Wise Mutual Information," *IEEE Communication Letters*, vol. 14, no. 10, pp. 927-929, Oct. 2010
75. N. Yang, M. ElKashlan, **J. Yuan**, and T. Shen, "On the SER of Fixed Gain Amplify-and-Forward Relaying with Beamforming in Nakagami- m Fading", *IEEE Communication Letters*, vol. 14, no. 10, pp. 942-944, Oct. 2010.
76. Nevat, T. Yang, K. Avnit, and **J. Yuan**, "MIMO Detection With High-level Modulations using Power Equality Constraints," *IEEE Transactions on Vehicular Technologies*, vol. 59, no. 7, pp. 3383-3392, Sept. 2010
77. N. Yang, M. ElKashlan, and **J. Yuan**, "Outage Probability of Multiuser Relay Networks in Nakagami- m Fading Channels", *IEEE Transactions on Vehicular Technology*, vol. 59, no. 5, pp. 2120-2132, June 2010.
78. Nevat, G. W. Peters and **J. Yuan**, "Detection of Gaussian Constellations in MIMO systems under Imperfect CSI," *IEEE Transactions on Communications*, vol. 58, no. 4, pp. 1151-1160, April 2010,
79. **J. Yuan**, Y. Li, and L. Chu, "Differential Modulation and Relay Selection With Detection-and-forward Cooperative Relaying," *IEEE Transactions on Vehicular Technology*, vol. 59, no. 1, Jan 2010, pp. 261-268.
80. H.Q. Huynh, S.I. Husain, **J. Yuan**, A.Razi and H. Suzuki, "Performance Analysis of Multi-branch Dual-hop Non-regenerative Relay Systems", *EURASIP Journal on Wireless Communications and Networking*. vol. 2010, Article ID 835498, 2010. doi:10.1155/2010/835498
81. T. Yang, and **J. Yuan**, "Performance of Iterative Decoding for Superposition Modulation-based Cooperative Transmission", *IEEE Transactions on Wireless Communications*, vol. 9, no. 1, pp. 51-59, Jan. 2010
82. Razi, D. J. Ryan, I. B. Collings, **J. Yuan**, "Sum rates, rate allocation and user scheduling for multi-user MIMO vector perturbation precoding", *IEEE Transactions on Wireless Communications*, vol. 9, no. 1, Jan. 2010, pp. 356-365.
83. **J. Yuan**, Z. Chen, Y. Li and J. Chu, "Distributed Space-time trellis codes for a cooperative system ", *IEEE Trans. Wireless Communications*. 2009, vol. 8, No. 10, Oct 2009, pp. 4897-4905
84. G. W. Peters, Ido Nevat, and **J. Yuan**, Channel Estimation in OFDM Systems with Unknown Power Delay Profile using Trans-dimensional MCMC via Stochastic

- Approximation and Conditional Path Sampling, *IEEE Trans. Signal Processing*, Sep. 2009, vol 57, No. 9 pp. 3545-3561.
85. T. Yang, **J. Yuan**, and Z. Shi, "Rate Optimization for IDMA systems with iterative joint multiuser decoding", *IEEE Trans. Wireless Communications*, vol 8, No. 3, March, 2009, pp.1148-1153.
 86. Syed, **J. Yuan**, J. Zhang, and R. K. Martin, "Time Domain Equalizer Design Using Bit Error Rate Minimization for UWB Systems," *EURASIP Journal on Wireless Communications and Networking*, March 2009. doi:10.1155/2009/786291
 87. Nevat and **J. Yuan**, "Joint Channel Tracking and Decoding for BICM-OFDM Systems using Consistency Tests and Adaptive Detection Selection," *IEEE Transactions on Vehicular Technology*, vol 58 no 8, pp. 4316-4328. 2009
 88. T. Yang, **J. Yuan**, and Z. Shi, "Joint Gaussian approximation and multi-stage LLR combining in the iterative receiver for MIMO-BICM systems", *IEEE Trans. Wireless Communications*, vol. 7, no. 12, Dec. 2008, pp. 5250-5256
 89. T. Yang, **J. Yuan**, Z. Shi and M. C. Reed, Convergence Behavior Analysis and Detection Switching for the Iterative Receiver of MIMO-BICM Systems, *IEEE Transactions on Vehicular Technology*, vol. 57, no. 4, July 2008, pp. 2642-2648.
 90. K. Allan, Y. Li and B. Vucetic, **J. Yuan** "Power allocation and code construction for space-time turbo trellis codes with partial CSI feedback," *IEE Electronics Letters*, May 2008 vol. 44, no. 11, pp. 689-690.
 91. L. Chu, **J. Yuan**, and Z. Chen, "A Coded Beamforming Scheme for Frequency-Flat MIMO Fading Channels," *IEE Proceedings Communications*, no 5, pp. 1075-1081, Oct. 2007.
 92. X. Shao, **J. Yuan**, and Y. Shao, "Error performance analysis of linear zero forcing and MMSE precoders for MIMO broadcast channels," *IEE Proceedings Communications*, Oct. 2007, no 5, pp. 1067-1074.
 93. S. I. Husain, **J. Yuan** and J. Zhang, "Modified channel shortening receiver based on MSSNR algorithm for UWB channels," *IEE Electronics Letters*, vol. 43, no 9, April 2007, pp. 535-537
 94. **J. Yuan**, "[Adaptive transmit antenna selection with pragmatic space-time trellis codes](#)," *IEEE Transactions on Wireless Communications*, vol. 5, no. 7, pp. 1706-1715, July 2006.
 95. X. Shao and **J. Yuan**, "[Multiuser scheduling for MIMO broadcast and multiple access channels with linear precoders and receivers](#)," *IEE Proc-Communi.*, vol. 153, no. 4, pp. 541-547, August 2006.
 96. J. Choi, Y. Hong and **J. Yuan**, "An approximate MAP-based iterative receiver for MIMO channels using modified sphere detection", *IEEE Transactions on Wireless Communications*, vol. 5, no. 8, pp. 2119-2126, July 2006.
 97. Y. Yu, S. Kerouedan, and **J. Yuan**, "[Transmit antenna shuffling for quasi-orthogonal space-time block codes with linear receivers](#)", *IEEE Communications Letters*, vol. 10, no. 8, pp. 596-598, August 2006.
 98. Y. Yu, S. Kerouedan, and **J. Yuan**, "[Closed-loop extended orthogonal space-time block codes for three and four transmit antennas](#)", *IEEE Signal Processing Letters*, vol 13, no. 5, pp. 273-276, May 2006.
 99. T. Yang, and **J. Yuan**, "Performance of MIMO-BICM with Parallel Interference Canceller on Slow Fading Channels", *IEE Electronics Letters*, vol. 42, issue 22, pp. 1292-1293, Oct 2006.
 100. Z. Chen, **J. Yuan**, and B. Vucetic, "[Analysis of transmit antenna selection/maximal-ratio combining in Rayleigh fading channels](#)", *IEEE Transactions on Vehicular Technology*, vol. 54, no. 4, pp. 1312-1321, July 2005.
 101. Z. Chen, B. Vucetic, and **J. Yuan**, "[Asymptotic performance of space-time block codes with imperfect transmit antenna selection](#)", *IEE Electronics Letters*, vol. 41, no. 9, pp. 538-539, April 2005.

102. Y. Hong, **J. Yuan**, Z. Chan, B. Vucetic, "[Space-time turbo trellis code for two, three and four transmit antennas](#)," *IEEE Transactions on Vehicular Technology*, vol. 53, no.2, pp. 318-328, Mar. 2004.
103. Y. Hong, **J. Yuan** and J. Choi, "Performance analysis of space-time trellis coded OFDM over quasi-static frequency selective fading channels", accepted by *IEEE Transactions on Vehicular Technology* in Sept. 2004.
104. **J. Yuan** and Z. Chen, "On the performance of space-time block codes on fading channels", accepted by *IEICE Transactions on Communications* in May 2004.
105. **J. Yuan**, Z. Chen, B. S. Vucetic, and W. Firmanto, "Performance and design of space-time coding in fading channels," *IEEE Transactions on Communications*, vol. 51, no. 12, pp. 1991-1996, Dec. 2003.
106. Z. Chen, **J. Yuan**, B. Vucetic, and Z. Zhou, "Performance of Alamouti scheme with transmit antenna selection," *IEE Electronics Letters*, vol. 39, no. 23, pp. 1666-1668, Nov. 2003.
107. X. Shao and **J. Yuan**, "A New differential space-time block coding scheme", *IEEE Communications Letters*, vol. 7, no. 9, pp. 437-439, Sep. 2003.
108. Z. Chen, B. Vucetic, and **J. Yuan**, "[Space-time trellis codes with transmit antenna selection](#)," *IEE Electronics Letters*, vol. 39, no. 11, pp. 854-855, May 2003.
109. **J. Yuan**, W. Feng, and B. Vucetic, Parallel and Serially Concatenated Codes for Fading Channels, *IEEE Transactions on Communications*, vol. 50, no. 10, Oct. 2002, pp. 1600-1608.
110. W. Firmanto, **J. Yuan**, and B. Vucetic, Recursive space-time TCM for Serial/Parallel Concatenation, *IEICE Transactions on Communication*, vol. E85-B, no. 9, Sep. 2002, pp. 1846-1848.
111. W. Feng, **J. Yuan**, and B. Vucetic, A Code Matched Interleaver Design for Turbo Codes, *IEEE Transactions on Communications*, vol. 50, no. 6, June. 2002, pp. 926-937.
112. W. Firmanto, **J. Yuan**, and B. Vucetic, Turbo codes with transmit diversity: performance analysis and evaluation, *IEICE Transactions on Communication*, vol. E85-B, no. 5, May 2002, pp. 859-865.
113. W. Firmanto, B. Vucetic, **J. Yuan**, and Z. Chen, "Space-time turbo trellis coded modulation for wireless data communications," *EURASIP Journal on Applied Signal Processing*, vol. 2002, no. 5, pp. 459-470, May 2002.
114. Z. Chen, B. Vucetic, **J. Yuan**, and K L. Lo, "Space-time trellis codes for 8-PSK with two, three and four transmit antennas in quasi-static flat fading channels," *IEE Electronics Letters*, vol. 38, no. 10, pp. 462-464, May 2002.
115. Z. Chen, B. S. Vucetic, **J. Yuan**, and K. L. Lo, "Space-time trellis codes for 4-PSK with three and four transmit antennas in quasi-static flat fading channels," *IEEE Communications Letters*, vol. 6, no. 2, pp. 67-69, Feb. 2002.
116. **J. Yuan**, W. Firmanto, and B. Vucetic, Trellis Coded 2XMPK Modulation with Transmit Diversity, *Journal of Communications and Networks*, Sep. 2001, pp. 273-280.
117. **J. Yuan**, B. Vucetic, W. Feng, M. Tan, Design of Cyclic Shift Interleavers for Turbo Codes, *Annals of Telecommunications*, vol. 56, no. 7-8, Jul-Aug, 2001, pp. 384-393.
118. W. Firmanto, B. Vucetic, and **J. Yuan**, Space-Time TCM with Improved Performance on Fast Fading Channels, *IEEE Communications Letters*, April 2001, vol. 5, No. 4, pp. 154-156.
119. Z. Chen, **J. Yuan**, and B. Vucetic, "Improved space-time trellis coded modulation scheme on slow Rayleigh fading channels," *IEE Electronics Letters*, vol. 37, no. 7, pp. 440-442, Mar. 2001.
120. **Jinhong Yuan** and Branka Vucetic, Turbo Trellis Coded Modulations for Fading Channels, *IEE Electronics Letters*, Aug., 2000, vol. 36, no. 18, pp. 1562-1563.

121. **Jinhong Yuan**, Branka Vucetic and Wen Feng, Combined Turbo Codes and Interleaver Design, *IEEE Transactions on Communications*, vol. 47, no. 4, Apr. 1999, pp. 484-487.
122. **Jinhong Yuan** and Jingming Kuang, Trellis Coded Orthogonal Frequency Division Multiplexing for Fading Channels, *Journal of Communications*, vol. 19, no. 2, Feb. 1998, pp. 38-43.
123. **Jinhong Yuan** and Jingming Kuang, The Key Techniques of Digital Mobile Communications, *Electronics Reference*, Nov. 1995, pp. 22-24.
124. **Jinhong Yuan**, Jingming Kuang and Yong Wang, The Techniques and Development of Digital Mobile Communications, Special Issue of *Journal of Beijing Institute of Technology*, Oct. 1995, pp. 131-140.
125. **Jinhong Yuan** and Jingming Kuang, An Efficient Algorithm for Computing Free Euclidean Distance and Product Distance of TCM Codes, *Journal of Beijing Institute of Technology*, Aug. 1995, vol.15, no.3, pp. 311-316.
126. **Jinhong Yuan**, Jingming Kuang and Youan Ke, Punctured Convolutional Coding Combined with MPSK Modulation, *Journal of Beijing Institute of Technology*, May. 1995, vol.15, no.2, pp. 163-170.
127. **Jinhong Yuan** and Jingming Kuang, A Simulation for Mobile Radio Channels and Its Application, *Journal of Beijing Institute of Technology*, Aug. 1994, vol.14, no.3, pp. 299-304.

Selected Refereed Conference Papers:

Top

1. Z. Sun, Y. Xie, J. Yuan and T. Yang, Coded Slotted ALOHA Schemes for Erasure Channels, accepted by ICC, 2016
2. Y. Deng, L. Wang, M. ElKashlan, M. D. Renzo, and J. Yuan, K-tier Heterogeneous Cellular Networks with Wireless Power Transfer, accepted by ICC, 2016
3. L. Zhao, T. Yang, G. Geraci, and J. Yuan, Downlink Multiuser Massive MIMO in Rician Channels under Pilot Contamination, accepted by ICC, 2016
4. B. He, N. Yang, X. Zhou, J. Yuan, Confidential broadcasting via coordinated beamforming in two-cell networks, ICC, 2015, London, pp. 7376-7382.
5. Y. Deng, L. Wang, Z. S.A.R. J. Yuan, M. ElKashlan, On the security of large scale spectrum sharing networks, ICC, 2015, London, pp.4877-4882.
6. J. Dai, T. Shuang, J. Yuan, Z. Fei, J. Kuang, A hybrid EF/DF protocol with rateless coded network code for two-way relay channels, 2015 International Symposium on Network Coding (NetCod), Sydney, pp. 91-95.
7. S. Yan, N. Yang and J. Yuan, Fundamental properties of on-off transmission scheme for wiretap channels, 2015 International Conference on Wireless Communications and Signal Processing (WCSP), 2015.
8. T. Huang, J. Yuan, X. Cheng, and L. Wan, Advanced Link-to-System Modeling of MMSE-SIC Receiver in MIMO-OFDM Systems, The 9th International Conference on Signal Processing and Communication Systems, Cairns, Australia, 2015
9. T. Huang, J. Yuan, X. Cheng, and L. Wan, Design of degree of distribution of LDS-OFDM, The 9th International Conference on Signal Processing and Communication Systems, Cairns, Australia, 2015
10. J. Yuan, L. Yang, T. Yang, and J. An, Design of non-binary irregular repeat-accumulate codes for reliable physical-layer network coding, in Proc. 22nd Int. Conf. Telecommun. (ICT 2015), Sydney, NSW, Apr. 2015.
11. M. Huang and J. Yuan, Lattice network coding in multiple-antenna two-way relay channels, in Proc. 22nd Int. Conf. Telecommun. (ICT 2015), Sydney, NSW, Apr. 2015.
12. J. Guo, T. Yang, J. Yuan, and J. A. Zhang, Design of linear physical-layer network coding for MIMO two-way relay channels without transmitter CSI, in Proc. 2015

- IEEE Wireless Commun. and Netw. Conf. (IEEE WCNC 2015), New Orleans, LA, Mar. 2015.
13. S. Yan, N. Yang, R. Malaney, and J. Yuan, Antenna switching for security enhancement in full-duplex wiretap channels, in Proc. 2014 IEEE Globecom Workshops (GC Wkshps 2014), Austin, TX, Dec. 2014.
 14. T. Huang, X. Yuan, J. Yuan, Degrees of Freedom of Half-duplex MIMO Multi-way Relay Channel with Full Data Exchange, IEEE Globecom 2014
 15. M. A. Girnyk, M. Vehkaperä, J. Yuan, L. K. Rasmussen, On the ergodic secrecy capacity of MIMO wiretap channels with statistical CSI, Proceedings of 2014 International Symposium on Information Theory and Its Applications, IEEE ISITA 2014. pp. 398-402. 08 Dec 2014
 16. Y. Xie, J. Yuan, and Y. Fujiwara, Quantum synchronizable codes from quadratic residue codes and their supercodes, in Proc. 2014 IEEE Inf. Theory Workshop (ITW 2014), Hobart, TAS, Nov. 2014, pp. 172-176.
 17. C. Liu, N. Yang, S. Yan, J. Yuan, and R. Malaney, Secure adaptive transmission in two-way relay wiretap channels, in Proc. 2014 IEEE/CIC International Conference on Communications in China (ICCC 2014), Shanghai, Oct. 2014, pp. 664-669.
 18. L. Yang, T. Yang, J. Yuan, and J. An, Irregular repeat-accumulate coded physical-layer network coding design for two-way relay channels, in Proc. 2014 IEEE/CIC International Conference on Communications in China (ICCC 2014), Shanghai, Oct. 2014, pp. 91-96.
 19. N. Yang, J. Yuan, R. Malaney, R. Subramanian, and I. Land, Artificial noise with optimal power allocation in multi-input single-output wiretap channels, in Proc. 2014 IEEE Int. Conf. Commun. (ICC 2014), Sydney, NSW, Jun. 2014, pp. 2184-2190.
 20. G. Geraci, J. Yuan, H.S. Dhillon, J. G. Andrews, I. B. Collings, A new model for physical layer security in cellular networks, 2014 IEEE International Conference on Communications, ICC 2014 2147-2152 2014
 21. A. Chakrapani, R. Malaney, J. Yuan, Low complexity power allocation scheme for regenerative multi-user relay networks, 2014 IEEE International Conference on Communications, ICC 2014 5419-5425 2014
 22. G. Geraci, J. Yuan, S. Singh, J. G. Andrews, and I. B. Collings, MIMO multi-user secrecy rate analysis, in Proc. 2014 IEEE Int. Conf. Commun. (ICC 2014), Sydney, NSW, Jun. 2014, pp. 1023-1028.
 23. S. Yan, G. Geraci, N. Yang, R. Malaney, and J. Yuan, On the target secrecy rate for SISOME wiretap channels, in Proc. 2014 IEEE Int. Conf. Commun. (ICC 2014), Sydney, NSW, Jun. 2014, pp. 987-992.
 24. L. Wang, N. Yang, M. El-Kashlan, P. L. Yip, and J. Yuan, Physical layer security in wiretap two-wave with diffuse power fading channels, in Proc. 2014 IEEE Int. Conf. Commun. (ICC 2014), Sydney, NSW, Jun. 2014, pp. 981-986.
 25. M. Huang, J. Yuan, Physical-layer network coding with Alamouti scheme for the TWRC with linear decoder, 2014 Australian Communications Theory Workshop, AusCTW 2014 108-113 2014
 26. C. Liu, N. Yang, G. Geraci, J. Yuan, R. Malaney, Secrecy in MIMOME wiretap channels: Beamforming with imperfect CSI, 2014 IEEE International Conference on Communications, ICC 2014 4711-4716 2014
 27. C. Liu, G. Geraci, N. Yang, J. Yuan, R. Malaney, **Beamforming for MIMO Gaussian wiretap channels with imperfect channel state information**, in Proc. 2013 IEEE Globecom, Atlanta, GA, Dec. 2013, pp. 3253-3258.
 28. S. Yan, N. Yang, R. Malaney, J. Yuan, Transmit antenna selection with Alamouti scheme in MIMO wiretap channels, in Proc. 2013 IEEE Globecom, Atlanta, GA, Dec. 2013, pp. 665-670.
 29. A. Huang, J. Yuan, Y. Fan, L. Tao, Flag dual amplitude pulse position modulation for atmospheric FSO communications, 2013, 7th International Conference on Signal

Processing and Communication Systems, ICSPCS 2013

30. Giovanni Geraci, Romain Couillet, Jinhong Yuan, Merouane Debbah, Iain Collings, 'Secrecy Sum-Rates with Regularized Channel Inversion Precoding under Imperfect CSI at the Transmitter, ICASSP 2013
31. T. Huang, J. Yuan, T. J. Li, Analysis of Compute-and-Forward with QPSK in Two-way Relay Fading Channels, AusCTW 2013.
32. F. Dong, N. Yang, M. ElKashlan, P. L. Yeoh, J. Yuan, Cooperative Jamming Protocols in Two Hop Amplify-and-Forward Wiretap Channels, IEEE ICC 2013.
33. N. Ding, I. nevat, G. Peters and J. Yuan, Opportunistic Network Coding for Two-way Relay Fading Channels, IEEE ICC 2013.
34. T. Huang, J. Yuan and Q. T. Sun, 'Opportunistic Pair-wise Compute-and-Forward in Multi-way Relay Channels, IEEE ICC 2013.
35. Yuanye Ma, Tao Huang, Jun Li, Jinhong Yuan, Zihuai Lin, Branka Vucetic, "Novel Nested Convolutional Lattice Codes for Multi-Way Relaying Systems over Fading Channels," IEEE Wireless Communications and Networking Conference (WCNC), 2013.
36. M. Huang, J. Yuan and T. Yang, Error probability of physical-layer network coding in multiple-antenna two-way relay channel, IEEE Globecom 2012.
37. Q. T. Sun, and J. Yuan, Lattice network codes based on Eisenstein integers, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob, 2012. Oct., Barcelona
38. M. A., Karim, J. Yuan, J. Li, and Z. Chen, A simple forwarding technique for two-way relay channels, invited paper to the 31st Progress in Electromagnetic Research Symposium (PIERS), pp. 277-280, March, 2012
39. Ido Nevat, Gareth Peters, and Jinhong Yuan, 'Blind Spectrum Sensing in Cognitive Radio over Fading Channels and Frequency Offsets', 2012 IEEE Wireless Communications and Networking Conference (WCNC 2012)
40. Giovanni Geraci, Jinhong Yuan and Iain Collings, 'Large System Analysis of the Secrecy Sum-Rates with Regularized Channel Inversion Precoding', 2012 IEEE Wireless Communications and Networking Conference (WCNC 2012)
41. Ido Nevat, Gareth Peters, Jinhong Yuan, and Iain Collings, 'System Identification in Wireless Relay Networks via Gaussian Process Iterated Conditioning on the Modes Estimation', 2012 IEEE Wireless Communications and Networking Conference (WCNC 2012)
42. Yixuan Xie, Jun Li, Robert Malaney and Jinhong Yuan, Channel identification and its impact on Quantum LDPC code performance, AusCTW, 2012.
43. N. Yang, M. ElKashlan, and J. Yuan, "Wireless multiuser relay networks in Nakagami-m fading channels," in Proc. IEEE VTC 2011 Fall, San Francisco, CA, Sep. 2011.
44. N. Yang, P. L. Yeoh, M. ElKashlan, J. Yuan, and I. B. Collings, "On the SER of distributed TAS/MRC in MIMO multiuser relay networks," in Proc. IEEE VTC 2011 Spring, Budapest, Hungary, May 2011.
45. N. Yang, P. L. Yeoh, M. ElKashlan, J. Yuan, and I. B. Collings, "Transmit antenna selection with maximal-ratio combining in MIMO multiuser relay networks", in Proc. IEEE GlobeCOM 2011, Houston, TX, Dec. 2011.
46. M. H. Azmi, J. Li, R. A. Malaney, and J. Yuan, 'Optimization for Pragmatic Half-Duplex Relay Network', IEEE Global Telecommunications Conference (GLOBECOM 2011), 2011 IEEE, Houston Texas, USA, 5-9 December 2011
47. Md. Anisul Karim, J. Yuan, Z. Chen, J. Li, 'Analysis of Mutual Information Based Soft Forwarding Relays in AWGN Channels ', Global Telecommunications Conference (GLOBECOM 2011), 2011 IEEE , Houston Texas, USA, 5-9 December 2011,

48. T. Yang, I. Land, T. Huang, J. Yuan and Z. Chen, "Distance properties and performance of physical layer network coding with binary linear codes for Gaussian two-way relay channels", IEEE Int. Symp. Inf. Theory, 2011, Russia.
49. T. Yang, X. Yuan, P. Li, I. B. Collings and J. Yuan, "Eigen-direction alignment aided physical layer network coding for MIMO two-way relay channels", IEEE Int. Symp. Inf. Theory, 2011, Russia.
50. M.H. Azmi, J. Li, J. Yuan, and R. Malaney, "Soft Decode-and-Forward using distributed LDPC coding in Half-Duplex Relay Channels", IEEE Int. Symp. Inf. Theory, 2011, Russia
51. Giovanni Geraci, Jinhong Yuan, Adeel Razi and Iain B. Collings, "Secrecy Sum-Rates for Multi-User MIMO Linear Precoding", 2011 IEEE The Eighth International Symposium on Wireless Communication Systems. Aachyen, Germany, Nov, 2011
52. Tao Huang, Tao Yang, Jinhong Yuan, and Ingmar Land, 'Convergence analysis for channel-coded physical layer network coding in Gaussian two-way relay channels, The Eighth International Symposium on Wireless Communication Systems. Aachyen, Germany, Nov, 2011
53. T. Yang and J. Yuan, "Cooperative transmission with a slotted incremental decode-and-forward protocol", in Proc. IEEE ICC 2011.
54. M.H. Azmi, J. Li, J. Yuan, and R. Malaney, "Design of Distributed Multi-Edge Type LDPC Codes for Two-Way Relay Channels", IEEE International Communication Conference (ICC), 2011, Kyoto, Japan
55. Jun Li, Jinhong Yuan, Robert Malaney, and Ming Xiao, "Binary Field Network Coding for a Multiple-Source Multiple-Relay Network," IEEE International Communication Conference (ICC), 2011, Kyoto, Japan.
56. M.H. Azmi, J. Li, J. Yuan, and R. Malaney, "Design of Distributed Multi-Edge Type LDPC Codes for Multiple Access Relay Channels", in Proc. 12th Australian Communication Theory Workshop, 2011, Melbourne, Australia.
57. D. Duyck, M. Moeneclaey, M.H. Azmi, J. Yuan, and J. Boutros, "Universal LDPC codes for Cooperative Communications", in Proc. 6th International Symposium on Turbo Codes & Iterative Information Processing, Brest, France, 2010
58. Y. Xie, J. C. Mu, J. Yuan, "Design of rate-compatible protograph based LDPC codes with mixed circulants", in Proc. 6th International Symposium on Turbo Codes & Iterative Information Processing, Brest, France, 2010
59. J. C. F. Li, W. Zhang, A., Nosratinia, J. Yuan, "Opportunistic Spectrum Sharing Based on Exploiting ARQ Retransmission in Cognitive Radio Networks", in Proc. 2010 IEEE Global Telecommunications Conference, Dec. 2010
60. Jun Li, Marwan H. Azmi, Robert Malaney, and Jinhong Yuan, "Design of network-coding based multi-edge type LDPC codes for a multi-source relaying system," in Proc. 6th International Symposium on Turbo Codes & Iterative Information Processing, Brest, France, 2010
61. J. Li, J. Yuan, M. H. Azmi, and R. Malaney, "Novel LDPC code structure for the nonergodic block-fading channels", in Proc. 6th International Symposium on Turbo Codes & Iterative Information Processing, Brest, France, 2010
62. Chakrapani, J. Li, R. Malaney, J. Yuan, "The optimal performance of cooperative communication systems as a function of location information quality", in Proc. 2010 IEEE Globecom Workshop, Dec. 2010
63. A. Razi, D. J. Ryan, J. Yuan, and I. B. Collings, "Performance of Vector Perturbation Multiuser MIMO Systems over Correlated Channels", in Proc. 2010 IEEE Wireless Communications and Networking Conference (WCNC), April 2010
64. N. Yang, M. El Kashlan, and J. Yuan, "Dual-Hop Amplify-and-Forward MIMO Relaying with Antenna Selection in Nakagami-m Fading", in Proc. 2010 IEEE Global Telecommunications Conference, Miami, FL. Dec. 2010
65. N. Yang, M. El Kashlan, and J. Yuan, "Cooperative Selection Diversity in Wireless Multiuser Relay Networks" IEEE Vehicular Technology Conference Fall (VTC-

Fall),Ottawa, Canada, Sept. 2010

66. M. A. Karim, J. Yuan and Z. Chen, "Nested Distributed Turbo Code for Relay Channels", " IEEE Vehicular Technology Conference Spring (VTC-Spring), 2010
67. Chakrapani, R. Malaney, J. Yuan, "Energy Efficiency of Hybrid-ARQ based geographic Routing", 2010 IEEE RIVF International Conference on Computing and Communication Technologies, Research, Innovation and Vision for the Future. 2010
68. N. Yang, M. ElKashlan, and J. Yuan, "Symbol Error rate of Wireless Multiuser Relay Networks in Nakagami-m Fading Channels", IEEE ICC, Cape Town, South Africa, May 2010
69. I. Nevat, G.W. Peters, and J. Yuan, "Channel Estimation in OFDM Systems with Unknown Power Delay Profile using Trans-dimensional MCMC via Stochastic Approximation," in Proc. IEEE Vehicular Technology Conference (VTC'09), Barcelona, Spain, April 2009.
70. N. Yang, M. ElKashlan, and J. Yuan, 'Outage Analysis of Multiuser Relay Networks with CSI-based Amplify-and-Forward Relaying in Nakagami-m Fading Channels", In Proceedings of PIMRC 2009.
71. Y. Li, B. Vucetic, Z. Chen, J. Yuan, "Distributed Turbo Coding with Selective Relaying", In Proceedings of PIMRC 2009.
72. I. Nevat, G.W. Peters, and J. Yuan, "Coherent Detection for Cooperative Networks with Arbitrary Relay Functions using "Likelihood Free" Inference," in Proc. NEWCOM-ACorn Workshop, Barcelona, Spain, April 2009.
73. H.Q. Huynh, S.I. Husain, J. Yuan, A. Razi and D.S. Taubman, "Performance Analysis of Multi-branch Non-regenerative Relay Systems", IEEE Vehicular Technology Conference, Anchorage, USA, Sep 2009.
74. T. Yang, and J. Yuan, "Rate Optimization for IDMA Systems with Iterative Multi-user Decoding" IEEE Globecom 2009
75. W. Zhang and J. Yuan, ``A simple design of space-time block codes achieving full diversity with linear receivers," in Proc.IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2009), Taipei, Apr. 20-24, 2009
76. T. Yuan, and J. Yuan, "Iterative Decoding for Superposition Modulation-based Cooperative Transmission", Proc. IEEE ISIT 2009
77. W. Zhang and J. Yuan, ``Linear receiver based high-rate space-time block codes," in Proc.IEEE International Symposium on Information Theory (ISIT 2009), Seoul, Korea, June 29-July 3, 2009
78. M. Azmi, and J. Yuan, Design of Multi-edge type Bilayer LDPC Codes", Proceedings of ISIT 2009. Seoul, Korea, June 29-July 3, 2009
79. A. Razi, D. J. Ryan, I. B. Collings,J. Yuan, "Sum Rates and User Scheduling for Multi-user MIMO Vector Perturbation Precoding", IEEE Int. Conference on Communications (ICC), Dresden, Germany, June 2009.
80. A. Chakrapani, R. Malaney, and J. Yuan, Energy efficient cooperative communications using location based relaying, in Proceedings of AusCTW 2009
81. H.Q. Huynh, S.I. Husain, J. Yuan, A. Razi and D.S. Taubman, "Performance Analysis of Multi-branch Dual-hop Non-regenerative fixed-gain Relay Systems in Nakagami-m Channels", in Proceedings of AusCTW 2009.
82. M. Azmi, and J. Yuan, "Improved Bilayer LDPC Codes Using Irregular Check Node Degree Distribution", in Proc.IEEE International Symposium on Information Theory (ISIT), 2008
83. Y. Liu, J. Ning, and J. Yuan, Min-Sum decoding algorithms for non-binary LDPC codes, IEEE ISITA 2008.
84. I. Nevat, G. W. Peters, and J. Yuan, "Bayesian Inference in Linear Models With a Random Gaussian Matrix : Algorithms and Complexity", PIMRC 2008.

85. I. Nevat, G.W. Peters and J.Yuan."OFDM CIR Estimation with Unknown Length via Bayesian Model Selection and Averaging", ,VTC Spring 2008, pp. 1413-1417
86. A. Razi, J. Yuan, Feedback reduction schemes for MIMO broadcast channels, PIMRC 2008.
87. T. Yang and J. Yuan, Performance of Cooperative Spatial-interleaved Superposition Modulation in Fading Multiple-Access Channels, IEEE Inter. Conf. Comm. (ICC) 2008.
88. Y Shao, and J. Yuan, A lower bound to the sum-rate of MIMO broadcast channels with limited-rate feedback, IEEE International Conference on Communications (ICC) 2008.
89. I. Nevat, G. W. Peters and J. Yuan, Maximum A-Posteriori Estimation in Linear Models With a Random Gaussian Model Matrix: a Bayesian-EM Approach, IEEE proceedings of International Conference on Acoustics, Speech and Signal Processing (ICASSP), March 2008, Las Vegas, USA. pp.2889-2892.
90. L. Chu, J. Yuan, Y. Li, Differential Modulation and Selective Combining for Multiple-Relay Networks, IEEE International Conference on Communications (ICC) 2008, May 2008.
91. L. Chu, J. Yuan, Z. Chen, Y. Li, Performance Analysis and Code Design of Distributed Space-time Trellis Codes for the Detection-And-Forward Systems, Proceedings. Australian Communications Theory Workshop (AusCTW) 2008, Jan. 2008.
92. I. Syed, J. Yuan, and J. Zhang, Channel Shortening through Bit Error Rate Minimization for UWB Systems, Proceedings. Australian Communications Theory Workshop (AusCTW) 2008, Jan. 2008.
93. J. Ning and J. Yuan, Design of Systematic LDPC Codes Using Density Evolution Based on Tripartite Graph, Proceedings. Australian Communications Theory Workshop (AusCTW) 2008, Jan. 2008.
94. T. Yang and J. Yuan, Successive LLR Combining in the Iterative Receiver for MIMO-BICM systems, Proc. IEEE Globecom 2007. Washington DC, Nov 2007.
95. I. Nevat and J. Yuan, Channel Tracking Using Pruning for MIMO-OFDM Systems over Gauss-Markov Channels, Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), April 2007, Hawaii, USA
96. I. Nevat and J. Yuan, Error Propagation Mitigation for Iterative Channel Tracking, Detection and Decoding of BICM-OFDM Systems, Proceedings of ISWCS, October 2007, Trondheim, Norway.
97. K. Huang, and J. Yuan, Adaptive Modulation for MIMO Broadcast Channels, International conference on signal processing and communication systems (ICSPCS), Dec. 2007.
98. S. I. Husain, J. Yuan, and J. Zhang, Rake Performance after Channel Shortening by Decay Factor Optimization in UWB Channels, Proceedings of IEEE 66th Semiannual Vehicular Technology Conference, 2007 VTC-Fall, Sept. 2007.
99. K. Huang, and J. Yuan, Power Allocation for MMSE Feedback Precoder on Multi-Antenna Broadcast Channels, Australian workshop on wireless communications, AusWireless, 2007.
100. I. Nevat , A. Wiesel, J. Yuan and Y. C. Eldar, Maximum A-posteriori Estimation in Linear Models With A Random Gaussian Model Matrix, Proceedings of IEEE Conference on Information Sciences and Systems (CISS-2007), March 2007, Baltimore, USA
101. Syed, J. Yuan, and J. Zhang, Effective Channel Shortening by Modified MSSNR Algorithm for simplified UWB Receiver, Accepted by IEEE ICC, 2007
102. J. Chu, and J. Yuan, performance analysis of cooperative space-time coded systems, Accepted by IEEE VTC-spring 2007.

103. L. Chu, J. Yuan, Y. Li, Performance Analysis and Code Design of Distributed Space-time Trellis Codes for a Detection-And-Forward System, Proceedings. IEEE 66th Semiannual Vehicular Technology Conference, 2007 VTC-Fall, Sept. 2007.
104. I. Nevat and J. Yuan, Iterative detection and decoding for BICM MIMO-OFDM systems, 2007 IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP
105. M. Lalam, D. Feng, J. Yuan, K. Amis and D. Leroux, An improved iterative decoding algorithm for block turbo codes, in Proc. IEEE ISIT, Seattle, USA, 2006.
106. J. Yuan, Design of LDPC codes based on generalized difference-set cyclic codes, in Proc. WITSP, Dec. 2006.
107. Yi Yu; Kerouedan, S.; Jinhong Yuan , Extended orthogonal space-time block codes with partial feedback for wireless communications, Wireless Communications and Networking Conference, 2006. WCNC 2006. IEEE, Volume 3, 3-6 April 2006 Page(s):1632 – 1637.
108. Suzuki, H.; Hedley, M.; Daniels, G.; Jinhong Yuan, Performance of MIMO-OFDM-BICM on Measured Indoor Channels, Proc. IEEE Vehicular Technology Conference, 2006. VTC 2006-Spring. IEEE 63rd, Volume 5, 2006 Page(s):2073 – 2077.
109. Yi Yu; Kerouedan, S.; Jinhong Yuan, Transmit Antenna Shuffling for Quasi-Orthogonal Space-Time Block Codes With Linear Receivers, Proc. IEEE Vehicular Technology Conference, 2006. VTC 2006-Spring. IEEE 63rd, Volume 4, 2006 Page(s):1670 – 1674
110. D. Feng, J. Yuan and K. Amis, Rate-Compatible Shortened Turbo Product Codes, Proc. IEEE Vehicular Technology Conference, 2006. VTC 2006-Spring. IEEE 63rd, Volume 5, 2006 Page(s):2489 – 2493.
111. Payaro, M.; Wiesel, A.; Jinhong Yuan; Lagunas, M.A.; On the Capacity of Linear Vector Gaussian Channels with Magnitude Knowledge and Phase Uncertainty, Acoustics, Speech and Signal Processing, 2006. ICASSP 2006 Proceedings. 2006 IEEE International Conference on, Volume 4, 2006 Page(s):IV-565 -568.
112. T. Yang, J. Yuan, Z. Shi and M. Reed, Detection switching in the iterative receivers for MIMO-BICM, Proc. IEEE Information Theory Workshop, ITW 2006, Oct. 2006.
113. T. Yang, J. Yuan, Z. Shi, a new scheduling for the iterative receiver of MIMO-BICM, proc. IEEE TENCON 2006, Nov. 2006.
114. Miquel Payaro, J. Yuan, and Miguel Angel Lagunas, On the Capacity of MIMO Systems with Magnitude Knowledge and Phase Uncertainty, AusCTW 2006, Perth, 1-3 Feb. 2006 Page(s):43 - 48
115. Miquel Payaro, , Antonio Pascual, J. Yuan, and Miguel Angel Lagunas, A Convex Optimization Approach for the Robust Design of Multiuser and Multiantenna Downlink Communication Systems, The Seventh IEEE International Workshop on Signal Processing Advances in Wireless Communications, 2006.
116. K. Wu, L. Ping and J. Yuan, A Quasi-Random Approach to Space-Time Codes, 4 th International Symposium on Turbo Codes in connection with 6th International ITG-Conference on Source and Channel Coding - ISTC'06
117. I. Nevat and J. Yuan, Channel tracking for OFDM systems using detections pruning, NEWCOM-ACoRN Joint Workshop 2006 - NAW06
118. Z. Chen, B. Vucetic and J. Yuan, Performance of the Alamouti scheme with imperfect transmit antenna selection, PIMRC, Volume 1, 11-14 Sept. 2005 Page(s):122 - 125
119. J. Chu and J. Yuan, Performance of a trellis coded beamforming scheme for MIMO fading channels, in Proc. 6th Australian Communications Theory Workshop, Feb 2005, AusCTW 2005, pp. 135-139.
120. J. Chu and J. Yuan, Design of A Trellis Coded Beamforming Scheme Over MIMO Fading Channels, IEEE ICC 2005, Korea, 2005.

121. X. Shao, J. Yuan and P. Rapajic, Performance Analysis and Precoder Design in MIMO Broadcast Channel, IEEE ICC 2005, Korea, 2005, Volume 2, 16-20 May 2005 Page(s):788 - 794 Vol. 2
122. X. Shao, J. Yuan, P. Rapajic, Precoder Design for MIMO Broadcast Channels, in Proc. 6th Australian Communications Theory Workshop, Feb 2005, AusCTW 2005, pp. 112-128.
123. J. Chu and J. Yuan, Performance Analysis of a Trellis Coded Beamforming Scheme for MIMO Fading Channels, IEEE VTC 2005-Spring, Sweden, 2005.
124. Yi Hong; Jinho Choi; Jinhong Yuan , Performance analysis of space-time trellis coded OFDM system, Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st, Volume 2, 30 May-1 June 2005, Page(s):1176 - 1180 Vol. 2
125. K. O-teng, S. Nooshabadi, and J. Yuan, Adaptive turbo-coded hybrid-ARQ in OFDM systems over fading channels, in Proc. IEEE VTC 2004 Fall.
126. X. Shao, and J. Yuan, Precoder design for MIMO broadcast channel using the MMSE DFE structure, in Proc. ISITA 2004, Italy, 2004.
127. J. Chu and J. Yuan, Performance Analysis of Weighted Trellis Codes, The Ninth International Conference on Communications Systems, 2004. ICCS 2004, 6-8 Sept. 2004, pp. 270-274.
128. Y. Hong, J. Choi, J. Yuan and P. Rapajic, A new approach for iterative decoding on MIMO channels via sphere decoding, 2004 IEEE Eighth International Symposium on Spread Spectrum Techniques and Applications, 30 Aug.-2 Sept. 2004, pp. 520-524.
129. X. Shao, J. Yuan and P. Rapajic, Multiuser diversity for MIMO broadcast and multiple access channel with linear precoder and receiver, 15th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, 2004. PIMRC 2004, Volume: 3, 5-8 Sept. 2004, pp. 1597 - 1602
130. J. Yuan, "Adaptive transmit antenna selection with pragmatic space-time trellis codes", in Proc. of AusCTW 2004, Newcastle, Feb. 2004.
131. Wong, J. Yuan, and J. Choi, "New 16-QAM space-time trellis codes for Rayleigh fading channels", in Proc. of AusCTW 2004, Newcastle, Feb. 2004.
132. J. Choi, Y. Hong, and J. Yuan, On the soft-decision in the iterative receiver for coded MIMO systems, in Proc. of IEEE ISIT2004, June-July, 2004, Chicago, US, pp. 133.
133. J. Choi and J. Yuan, "On the beamformer design for coded signals with known channel", in Proc. of ICC 2004, June, 2004, France, pp. 2777-2781.
134. Wong, J. Yuan and J. Choi, "Design of 16-QAM space-time trellis codes for quasi-static fading channels", in Proc. of IEEE VTC2004Spring, Milan, Italy, May 2004, vol. 2, pp. 880-883.
135. J. Choi and J. Yuan, "Eigenbeamforming for coded signals without feedback", in Proc. of IEEE VTC 2004Spring, Milan, Italy, May 2004, pp. 794 - 798.
136. K. Oteng, S. Nooshabadi, J. Yuan, Asymmetric rate compatible turbo codes in hybrid automatic repeat request schemes, The Ninth International Conference on Communications Systems, 2004. ICCS 2004, 6-8 Sept. 2004, pp. 489 - 494.
137. K. Oteng, S. Nooshabadi, J. Yuan, Turbo punctured hybrid-ARQ strategies over OFDM systems, 2004 International Workshop on Ultrawideband Systems and Technologies Joint with Conference on Ultra Wideband Systems, Joint UWBS & IWUWBS, 18-21 May 2004, pp. 212 - 216.
138. Z. Chen, B. Vucetic, J. Yuan, and Z. Zhou, "Performance analysis of space-time trellis codes with transmit antenna selection in Rayleigh fading channels," in Proc. of IEEE WCNC'04, Mar. 2004, Atlanta, pp. 2456-2462.
139. Z. Chen, J. Yuan, B. Vucetic and Z. Zhou, "Performance of Alamouti scheme with transmit antenna selection," in Proc. IEEE PIMRC'04, Barcelona, Spain, Sept. 2004, pp. 1135 - 1141.

140. V. Trajkovic, P. Rapajic, J. Yuan, Adaptive decision aided turbo equalization of unknown channels using SOVA and MAP decoding algorithms, 10th International Conference on Telecommunications, 2003. ICT 2003, Volume: 1, 23 Feb.-1 March 2003, Pages: 665 – 670.
141. M Kuang, J. Yuan, P. Rapajic, Chebyshev detection of layered space time codes, Proceedings of the 2003 International Conference on Neural Networks and Signal Processing, 2003, Volume: 2, 14-17 Dec. 2003, Pages: 1433 – 1436.
142. Y. Hong, Z. Dong and J. Yuan, "Genetic algorithm based distance spectrum technique for performance union bound of space-time trellis coded OFDM", in Proc. of the 2003 Congress on Evolutionary Computation, Dec. 2003, Canberra, Australia, pp. 2659-2664.
143. Y. Hong, Z. Dong and J. Yuan, "Genetic algorithm based efficient searching method for maximum likelihood decoding", in Proc. of the second international conference on computational intelligence robotics and autonomous systems, CIRAS2003, Singapore, Dec. 2003.
144. Y. Hong, J. Yuan, J. Choi and X. Shao, "Performance analysis of space-time trellis coded OFDM over Quasi-static Frequency selective fading channels," in Proc. of 2003 Joint Conference of the fourth International Conference on Information, Communications and signal Processing and Fourth Pacific-Rim Conference on Multimedia, Dec. 2003, Singapore, 1478-1482.
145. Y. Hong, J. Yuan, B. Vucetic, and Z. Chen, "Design of space-time turbo trellis codes for two, three and four transmit antennas", in Proc. of IEEE ICCS'02, Singapore, Nov. 2002, pp. 203-207.
146. J. Yuan and X. Shao, "A new differential space-time block coding scheme", in Proc. of IEEE ICCS'02, Singapore, Nov. 2002, pp. 183-187.
147. J. Yuan, "On the performance of space-time block codes on slow Rayleigh fading channels", in Proc. IEEE PIMRC'03, Beijing, China, Sept. 2003.
148. Y. Hong, J. Yuan, and X. Shao, "Robust space-time trellis codes for OFDM systems over quasi-static frequency selective fading channels", in Proc. IEEE PIMRC'03, Beijing, China, Sept. 2003.
149. X. Shao and J. Yuan, "Blind detection of space-time block codes and applications for coded systems", in Proc. IEEE VTC'03-Fall, Orlando, Florida, 6-9 October 2003.
150. K. Oteng-Amoako, J. Yuan, and S. Nooshabadi, "Adaptation of turbo punctured codes for Hybrid-ARQ", in Proc. IEEE VTC'03-Fall, Orlando, Florida, 6-9 October 2003.
151. J. Yuan, X. Shao, and Y. Hong, "Differential space-time block codes with iterative detection", in Proc. IEEE ISIT 2003, Yokohama, Japan, June 29-July 4, 2003, p. 61.
152. X. Shao, J. Yuan, and P. Rapajic, "Antenna Selection for MIMO-OFDM spatial multiplexing system", in Proc. IEEE ISIT 2003, Yokohama, Japan, June 29-July 4, 2003, p. 90.
153. Z. Chen, B. Vucetic, J. Yuan, and K. L. Lo, "Analysis of transmit antenna selection/maximal-ratio combining in Rayleigh fading channels," in Proc. IEEE ISIT 2003, Yokohama, Japan, June 29-July 4, 2003, p. 94.
154. K. Oteng-Amoako, J. Yuan, and S. Nooshabadi, "Selective hybrid-ARQ schemes with various combining methods in fading channels", in Proc. of the Workshop Wiopt'03 Modeling and optimization in Mobile, Ad Hoc and Wireless Networks, Mar. 2003, INRIA Sophia Antipolis, France, pp. 339-341.
155. J. Yuan, and X. Shao, New Differential Space-Time Block Code for Two, Three and Four Transmit antennas, in Proc. of IEEE VTC'03 Spring, Jeju Island, Korea, Apr. 2003.
156. H. Yang, J. Yuan, and B. Vucetic, Interference Suppression Schemes for Space-Time Trellis Coded WCDMA Systems, in Proc. of IEEE VTC'03 Spring, Jeju Island, Korea, Apr. 2003..

157. Z. Chen, B. Vucetic, and J. Yuan, "Comparison of three closed-loop transmit diversity schemes," in Proc. of IEEE VTC'03 Spring, Jeju Island, Korea, Apr. 2003.
158. Z. Chen, B. Vucetic, J. Yuan, and K. Lo, "Analysis of transmit antenna selection/maximal-ratio combinings in Rayleigh fading channels", in Proc. of IEEE ICCT'03, Beijing, P.R.China, Apr. 2003.
159. J. Yuan, "New differential space-time block codes for MIMO systems", the 5th Smart Antenna waorkshop with emphasis on SDR application, Soeul, Korea, Apr. 2003, pp. 279-299.
160. Z. Chen, B. Vucetic, J. Yuan and K.L. Lo, "Space-time trellis coded modulation on quasi-static fading channels", IEEE ICC'02, New York, June 2002.
161. Y. Yang, J.Yuan, "Space-time trellis codes for WCDMA systems on frequency-selective fading channels", IEEE VTC2002.
162. Yuan J., and Vucetic B., Design of Space-Time TCM and Space-Time Turbo TCM for Fading Channels, IEEE Information Theory Workshop (ITW), Sep. 2001, Cairns, Australia, pp. 123-125.
163. Yuan J., Vucetic B., Chen Z., and Firmanto W., Performance Analysis and Design of Space-Time Coding on Fading Channels", IEEE ISIT 2001, Washington DC, June 2001.
164. Yuan J., and, Vucetic B., Performance of Space-Time TCM and its Applications in CDMA Systems, IEEE VTC 2001-Spring, May 2001.
165. Chen Z., Yuan J. and Vucetic B., An Improved Space-Time Trellis Coded Modulation Scheme on Slow Rayleigh Fading Channels, IEEE ICC 2001
166. Firmanto W., Yuan J. and Vucetic B., Trellis Coded 2xMPSK Modulation with Transmit Diversity: Code Design and Construction, Proc. of IEEE International Conf. on Third Generation Wireless and Beyond, San Francisco 2001
167. Firmanto W., Chen Z., Vucetic B., and Yuan J., Design of Space-Time Turbo Trellis Coded Modulation on Fading Channels, IEEE Globecom 2001.
168. Firmanto W., Yuan J., and Vucetic B., Layered Space-Time Coding: Performance Analysis and Design Criteria, IEEE Globecom 2001.
169. Jinhong Yuan, Welly Firmanto, and Branka Vucetic, Trellis-Coded Multi-dimensional Modulation with Transmit Diversity, IEEE International Conference on Communications (ICC2000), New Orleans, USA, Jun. 2000.
170. J. Yuan, "On the design of space-time codes for fading channels", 2nd Australian Communications Theory Workshop, Adelaide, Feb. 2001.
171. Jinhong Yuan, Mark Tan, and Branka Vucetic, Cyclic Shift Interleavers for Turbo Codes, International Symposium on Turbo Codes & related Topics, Brest, France, Sep. 2000. pp. 547-550
172. Jinhong Yuan, Wen Feng, and Branka Vucetic, Turbo Trellis Coded Modulation for fading Channels, IEEE Annual vehicular Technology Conference (VTC2000-Spring), Japan, May 2000, pp. 2059-2063.
173. Welly Firmanto, Jinhong Yuan, and Branka Vucetic, Space-Time Trellis-Coded Modulation for Fading Channels, IEEE International Symposium on Information Theory and Applications (ISITA2000), USA, Jun. 2000, pp. 477-480.
174. Jinhong Yuan and Branka Vucetic, Performance Analysis of Turbo Codes for Rician Fading Channels, Proceedings of IEEE International Conference on Communications (ICC99), Vancouver, Canada, Jun. 1999, pp. 83-87.
175. B. Vucetic, J. Yuan and W. Firmanto, "Space-Time Coding for Wireless Communication", Wireless Forum, Dallas, Oct., 1999.
176. Jinhong Yuan, Wen Feng and Branka Vucetic, Parallel and Serially Concatenated Codes for Fading Channels, Proceedings of The 10th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC99), Osaka, Japan, Sep. 1999, pp. 862-866.

177. Wen Feng, Jinhong Yuan and Branka Vucetic, A Code Matched Interleaver Design for Turbo Codes, Proceedings of The 10th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC99), Osaka, Japan, Sep. 1999, pp. 578-582.
178. Jinhong Yuan, Branka Vucetic, I-Q Turbo Coded Modulation, Proceedings of IEEE Int. Conf. On Global Communications (GLOBECOM98), Communications Theory Mini Conference, Sydney, Australia, Nov. 1998, pp. 191-195.
179. Jinhong Yuan, Branka Vucetic, Space-Time Turbo Codes for Fast and Slow Fading Channels, Workshop on Wireless Data Transmission, Melbourne, Australia, Sep. 1999.
180. Hong Xiao, Jinhong Yuan and Branka Vucetic, Channel-Codec Optimised Soft Input Source Decoding and its Application for Low-Bit-rate Speech Transmission, Proceedings of IEEE Int. Conf. On Global Communications (GLOBECOM98), Sydney, Australia, Nov. 1998, pp. 815-820.
181. Jinhong Yuan, Branka Vucetic and Wen Feng, Combined Turbo Codes and Interleaver Design, Proceedings of IEEE International Symposium On Information Theory (ISIT98), MIT, Boston, USA, Aug. 1998, pp. 176.
182. Jinhong Yuan and Branka Vucetic, Maximum Likelihood Decoding of Reed-Solomon Codes and Turbo Codes, the 2nd Ericsson/Vodafone Research and Development Conference, Hunter Vally, Australia, Oct. 1997
183. Jinhong Yuan and Jingming Kuang, An Efficient Algorithm for Computing Free Distances of Irregular TCM Codes, New Advances in Theory and Applications of Electronics and Information, Sep. 1996, pp. 612-615.
184. Jinhong Yuan and Jingming Kuang, Trellis Coded Orthogonal Frequency Division Multiplexing for PCS, Proceedings International Symposium on New Transmission & Switching Technologies (ISNTST96), Sep. 1996, pp. 410-413.
185. Jinhong Yuan and Jingming Kuang, Performance Simulation of Time-varying Punctured Trellis Coded Modulation for Land Mobile Satellite Channels, Proceedings of International Conference on Personal Mobile Radio and Spread Spectrum Communications (ICPMSC'94), Oct. 1994, pp. 84-87.
186. Jinhong Yuan, Jingming Kuang and Youan Ke, Punctured Convolutional Trellis Coded Modulation, Proceedings of International Conference on Communications Technology (ICCT'94), vol.2, June 1994, pp. 1139-1142.
187. Botao Liu, Jinhong Yuan and Jingming Kuang, The Application of Weighted Linear Predictive Filter to Fast Self Excited Vocoders, Proceedings of International Conference on Signal Processing (ICSP'93), vol.1, Oct. 1993, pp. 271-274.

Patents:

Top

1. Z. Chen, W. Firmanto, B. Vucetic, J. Yuan and Z. Chen, Space-time turbo trellis coding arrangement and method thereof, Patent filed by Nortel Networks, 22 Nov 2000, US Serial No 09/717,286. WO2002043313 A2
2. J. Yuan, etc, Method and apparatus for generating quasi-cyclic low-density parity-check codes and encoding, Patent filed by Huawei, 26 Aug 2008, WO2010022602 A1
Copyright 2013 | Admin: Shane Xie
3. J. Yuan, etc, Method and device for encoding or decoding variable code length LDPC codes and encoder and decoder, Patent filed by Huawei, 19 Nov 2008, WO2010057407 A1
4. J. Yuan, Method and device for generating and coding quasi-cyclic LDPC code, 生成准循环LDPC码及编码的方法与装置, 200810142175.0, CN101662290 B
5. J. Yuan etc, 可变码长LDPC码编码或译码的方法与装置及编码器和译码器, 200810217377.7, CN101741396 B