

Publications for Branka Vucetic

2017

Hou, Z., Chen, H., Li, Y., Han, Z., Vucetic, B. (2017). A Contract-based Incentive Mechanism for Energy Harvesting-based Internet of Things. *2017 IEEE International Conference on Communications (ICC 2017)*, Piscataway: IEEE. [More Information]

Li, J., Chen, Y., Ding, M., Shu, F., Vucetic, B., You, X. (2017). A Small-Cell Caching System in Mobile Cellular Networks with LoS and NLoS Channels. *IEEE Access*, 5, 1296-1305. [More Information]

Muhammad, N., Wang, P., Li, Y., Vucetic, B. (2017). Analytical Model for Outdoor Millimeter Wave Channels Using Geometry-Based Stochastic Approach. *IEEE Transactions on Vehicular Technology*, 66(2), 912-926. [More Information]

Yu, Y., Chen, H., Li, Y., Ding, Z., Vucetic, B. (2017). Antenna Selection for MIMO-NOMA Networks. *2017 IEEE International Conference on Communications (ICC 2017)*, Piscataway: IEEE. [More Information]

Kokshoorn, M., Chen, H., Li, Y., Vucetic, B. (2017). Fountain Code-Inspired Channel Estimation for Multi-user Millimeter Wave MIMO Systems. *2017 IEEE International Conference on Communications (ICC 2017)*, Piscataway: IEEE. [More Information]

Zhang, R., Chen, H., Yeoh, P., Li, Y., Vucetic, B. (2017). Full-Duplex Cooperative Cognitive Radio Networks with Wireless Energy Harvesting. *2017 IEEE International Conference on Communications (ICC 2017)*, Piscataway: IEEE. [More Information]

Shu, F., Zhou, Y., Chen, R., Wang, J., Li, J., Vucetic, B. (2017). High-Performance Beamformer and Low-Complexity Detector for DF-Based Full-Duplex MIMO Relaying Networks. *China Communications*, 14(2), 173-182. [More Information]

Bao, W., Chen, H., Li, Y., Vucetic, B. (2017). Joint Rate Control and Power Allocation for Non-Orthogonal Multiple Access Systems [In Press]. *IEEE Journal on Selected Areas in Communications*. [More Information]

Kokshoorn, M., Chen, H., Wang, P., Li, Y., Vucetic, B. (2017). Millimeter Wave MIMO Channel Estimation using Overlapped Beam Patterns and Rate Adaptation. *IEEE Transactions on Signal Processing*, 65(3), 601-616. [More Information]

Muhammad, N., Chen, H., Bao, W., Li, Y., Vucetic, B. (2017). Multi-cell Coordination via Disjoint Clustering in Dense Millimeter Wave Cellular Networks. *2017 IEEE International Conference on Communications (ICC 2017)*, Piscataway: IEEE. [More

Information]

Hou, Z., Zhou, Y., Tian, L., Shi, J., Li, Y., Vucetic, B. (2017). Radio Environment Map Aided Doppler Shift Estimation in LTE-Railway. *IEEE Transactions on Vehicular Technology*, 66(5), 4462-4467. [More Information]

Abbas, R., Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2017). Random Access for M2M Communications With QoS Guarantees. *IEEE Transactions on Communications*, 65(7), 2889-2903. [More Information]

2016

Yu, Y., Wang, P., Chen, H., Li, Y., Vucetic, B. (2016). A Low-Complexity Transceiver Design in Sparse Multipath Massive MIMO Channels. *IEEE Signal Processing Letters*, 23(10), 1301-1305. [More Information]

Li, Z., Chen, H., Gu, Y., Li, Y., Vucetic, B. (2016). Accumulate then forward: An opportunistic relaying protocol for wireless-powered cooperative communications. *24th European Signal Processing Conference (EUSIPCO 2016)*, Budapest: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Abbas, R., Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2016). Analysis on LT Codes for Unequal Recovery Time with Complete and Partial Feedback. *2016 IEEE International Symposium on Information Theory (ISIT 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Gu, Y., Chen, H., Li, Y., Vucetic, B. (2016). Distributed Multi-Relay Selection in Wireless-Powered Cooperative Networks with Energy Accumulation. *2016 IEEE International Conference on Communications (ICC 2016)*, Piscataway: IEEE. [More Information]

Chen, H., Ma, Y., Lin, Z., Li, Y., Vucetic, B. (2016). Distributed Power Control in Interference Channels with QoS Constraints and RF Energy Harvesting: A Game-Theoretic Approach. *IEEE Transactions on Vehicular Technology*, 65(12), 10063-10069. [More Information]

Li, Y., You, Q., Liew, S., Vucetic, B. (2016). Duality of channel encoding and decoding - Part I: rate-1 binary convolutional codes. *Transactions on Emerging Telecommunications Technologies*, 27(5), 698-715. [More Information]

You, Q., Li, Y., Liew, S., Vucetic, B. (2016). Duality of channel encoding and decoding - Part II: rate-1 non-binary convolutional codes. *Transactions on Emerging Telecommunications Technologies*, 27(5), 685-697. <a

<http://dx.doi.org/10.1002/ett.3017>>[More Information]

Wang, K., Chen, W., Li, J., Vucetic, B. (2016). Green MU-MIMO/SIMO Switching for Heterogeneous Delay-Aware Services with Constellation Optimization. *IEEE Transactions on Communications*, 64(5), 1984-1995. [More Information]

Tang, H., Zhang, W., Hardjawana, W., Vucetic, B. (2016). Improving Latency and Reliability in 5G Internet-of-Things Networks. *2016 IEEE International Conference on Smart Grid Communications (SmartGridComm)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, Z., Chen, H., Li, Y., Vucetic, B. (2016). Incremental Accumulate-then-Forward Relaying in Wireless Energy Harvesting Cooperative Networks. *59TH IEEE Global Communications Conference (GLOBECOM 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Chen, Y., Li, J., Chen, W., Lin, Z., Vucetic, B. (2016). Joint User Association and Resource Allocation in the Downlink of Heterogeneous Networks. *IEEE Transactions on Vehicular Technology*, 65(7), 5701-5706. [More Information]

Ma, C., Lin, Z., Marini, L., Li, J., Vucetic, B. (2016). Learning Automaton based Distributed Caching for Mobile Social Networks. *2016 IEEE Wireless Communications and Networking Conference (WCNC 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Wang, P., Li, Y., Peng, Y., Liew, S., Vucetic, B. (2016). Non-Uniform Linear Antenna Array Design and Optimization for Millimeter-Wave Communications. *IEEE Transactions on Wireless Communications*, 15(11), 7343-7356. [More Information]

Huang, W., Chen, H., Li, Y., Vucetic, B. (2016). On the Performance of Multi-antenna Wireless-Powered Communications With Energy Beamforming. *IEEE Transactions on Vehicular Technology*, 65(3), 1801-1808. [More Information]

Hardjawana, W., Anwar Apandi, N., Vucetic, B. (2016). Parallel Optimization Framework for Cloud-Based Small Cell Networks. *IEEE Transactions on Wireless Communications*, 15(11), 7286-7298. [More Information]

Abbas, R., Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2016). Performance Analysis and Optimization of LT Codes with Unequal Recovery Time and Intermediate Feedback. *2016 IEEE International Conference on Communications (ICC 2016)*, Piscataway: IEEE. [More Information]

Li, J., Chen, H., Chen, Y., Lin, Z., Vucetic, B., Hanzo, L. (2016). Pricing and Resource Allocation via Game Theory for a Small-Cell Video Caching System. *IEEE Journal on Selected Areas in Communications*, 34(8), 2115-2129. [More

Information]

Kokshoorn, M., Chen, H., Li, Y., Vucetic, B. (2016). RACE: A Rate Adaptive Channel Estimation Approach for Millimetre Wave MIMO Systems. *59TH IEEE Global Communications Conference (GLOBECOM 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Shu, F., Wu, X., Li, J., Chen, R., Vucetic, B. (2016). Robust synthesis scheme for secure multi-beam directional modulation in broadcasting systems. *IEEE Access*, 4, 6614-6623. [More Information]

Chen, Y., Li, J., Lin, Z., Mao, G., Vucetic, B. (2016). User Association With Unequal User Priorities in Heterogeneous Cellular Networks. *IEEE Transactions on Vehicular Technology*, 65(9), 7374-7388. [More Information]

Gao, Z., Chen, H., Li, Y., Vucetic, B. (2016). Wireless-powered communications with two-way information flow: Protocols and throughput regions. *The 16th Australian Communications Theory Workshop (AusCTW 2016)*, Piscataway: IEEE. [More Information]

Gu, Y., Chen, H., Li, Y., Vucetic, B. (2016). Wireless-Powered Two-Way Relaying with Power Splitting-Based Energy Accumulation. *59TH IEEE Global Communications Conference (GLOBECOM 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2015

Gu, Y., Chen, H., Li, Y., Vucetic, B. (2015). A Discrete Time-Switching Protocol for Wireless-Powered Communications with Energy Accumulation. *2015 IEEE Global Communications Conference (GLOBECOM)*, Piscataway, New Jersey: IEEE. [More Information]

Anwar Apandi, N., Hardjawana, W., Vucetic, B. (2015). A distributed cooperative power allocation scheme for small cell networks. *2015 IEEE Wireless Communications and Networking Conference (WCNC 2015)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Chen, H., Li, Y., Han, Z., Vucetic, B. (2015). A Stackelberg Game-Based Energy Trading Scheme for Power Beacon-Assisted Wireless-Power Communication. *2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2015)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Qian, M., Hardjawana, W., Li, Y., Vucetic, B., Yang, X., Shi, J. (2015). Adaptive soft frequency reuse scheme for wireless cellular networks. *IEEE Transactions on Vehicular Technology*, 64(1), 118-131. [More Information]

Gu, Y., Chen, H., Li, Y., Vucetic, B. (2015). An adaptive transmission Protocol for Wireless-Powered Cooperative

- Communications. *2015 IEEE International Conference on Communications (ICC)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Qian, M., Hardjawana, W., Shi, J., Vucetic, B. (2015). Baseband Processing Units Virtualization for Cloud Radio Access Networks. *IEEE Wireless Communications Letters*, 4(2), 189-192. [More Information]
- Shirvanimoghaddam, M., Li, Y., Vucetic, B., Yuan, J., Zhang, P. (2015). Binary Compressive Sensing Via Analog Fountain Coding. *IEEE Transactions on Signal Processing*, 63(24), 6540-6552. [More Information]
- Al-Khatib, O., Hardjawana, W., Vucetic, B. (2015). Channel- and Buffer-Aware Scheduling and Resource Allocation Algorithm for LTE-A Uplink. *IEEE 25th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Li, Y., Li, J., Lin, Z., Li, Y., Vucetic, B. (2015). Compressive Soft Forwarding in Network Coded Multiple Access Relay Channels. *IEEE Transactions on Vehicular Technology*, 64(5), 2138-2144. [More Information]
- Yu, Y., Wang, P., Li, Y., Vucetic, B. (2015). Computationally efficient relay-source antenna selection for MIMO two-way relay networks. *2015 IEEE International Conference on Communications (ICC)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Cai, W., Wang, P., Li, Y., Zhang, Y., Vucetic, B. (2015). Deployment optimization of uniform linear antenna arrays for a two-path millimeter wave communication system. *IEEE Communications Letters*, 19(4), 669-672. [More Information]
- Yue, J., Lin, Z., Mao, G., Vucetic, B. (2015). Design and performance analysis of network code division multiplexing for wireless sensor networks. *2015 IEEE International Symposium on Information Theory (ISIT 2015)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Abbas, R., Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2015). Design of probabilistic random access in cognitive radio networks. *10th International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM 2015)*, Cham: Springer. [More Information]
- Ma, Y., Chen, H., Lin, Z., Li, Y., Vucetic, B. (2015). Distributed and Optimal Resource Allocation for Power Beacon-Assisted Wireless-Powered Communications. *IEEE Transactions on Communications*, 63(10), 3569-3583. [More Information]
- Li, J., Chen, Y., Lin, Z., Chen, W., Vucetic, B., Hanzo, L. (2015). Distributed caching for data dissemination in the downlink of heterogeneous networks. *IEEE Transactions on Communications*, 63(10), 3553-3568. [More Information]
- Ng, S., Li, Y., Vucetic, B., Hanzo, L. (2015). Distributed Irregular Codes Relying on Decode-and-Forward Relays as Code Components. *IEEE Transactions on Vehicular Technology*, 64(10), 4579-4588. [More Information]
- Chen, H., Li, Y., Jiang, Y., Ma, Y., Vucetic, B. (2015). Distributed power splitting for SWIPT in relay interference channels using game theory. *IEEE Transactions on Wireless Communications*, 14(1), 410-420. [More Information]
- Ma, Y., Chen, H., Lin, Z., Li, Y., Vucetic, B. (2015). Distributed resource allocation for power beacon-assisted wireless-powered communications. *2015 IEEE International Conference on Communications (ICC)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Ishii, K., Li, Y., Vucetic, B., Peng, Y. (2015). Distributed Soft-Input Soft-Output Coding for Two-Way Wireless Relay Networks. *IEEE Wireless Communications Letters*, 4(6), 657-660. [More Information]
- Anwar Apandi, N., Hardjawana, W., Vucetic, B. (2015). Distributed Transmit Power Management for Small Cell Networks. *IEEE 25th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Kokshoorn, M., Wang, P., Li, Y., Vucetic, B. (2015). Fast channel estimation for millimetre wave wireless systems using overlapped beam patterns. *2015 IEEE International Conference on Communications (ICC)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]
- Chen, H., Li, Y., Rebelatto, J., Uchoa-Filho, B., Vucetic, B. (2015). Harvest-Then-Cooperate: Wireless-Powered Cooperative Communications. *IEEE Transactions on Signal Processing*, 63(7), 1700-1711. [More Information]
- Velisavljevic, V., Pesquet-Popescu, B., Vucetic, B., Reibman, A., Yang, C. (2015). Introduction to the issue on visual signal processing for wireless networks. *IEEE Journal on Selected Topics in Signal Processing*, 9(1), 3-5. [More Information]
- Wang, P., Li, Y., Song, L., Vucetic, B. (2015). Multi-Gigabit Millimeter Wave Wireless Communications for 5G: From Fixed Access to Cellular Networks. *IEEE Communications Magazine*, 53(1), 168-178. [More Information]
- Yue, J., Lin, Z., Vucetic, B., Mao, G., Xiao, M., Bai, B., Pang, K. (2015). Network code division multiplexing for wireless

relay networks. *IEEE Transactions on Wireless Communications*, 14(10), 5736-5749. [More Information]

Ma, Y., Lin, Z., Li, J., Mao, G., Vucetic, B. (2015). Network coded non-binary LDGM codes based on lattices for a multi-access relay system. *2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Piscataway, New Jersey: IEEE. [More Information]

Wang, P., Li, Y., Peng, Y., Liew, S., Vucetic, B. (2015). Non-uniform linear antenna array design for millimeter wave MIMO channels. *9th International Conference on Signal Processing and Communication Systems (ICSPCS), 2015*, Piscataway, New Jersey: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Abbas, R., Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2015). On SINR-based Random Multiple Access using Codes on Graph. *2015 IEEE Global Communications Conference (GLOBECOM)*, Piscataway, New Jersey: IEEE. [More Information]

Shirvanimoghaddam, M., Li, Y., Dohler, M., Vucetic, B., Feng, S. (2015). Probabilistic Rateless Multiple Access for Machine to-Machine Communication. *IEEE Transactions on Wireless Communications*, 14(12), 6815-6826. [More Information]

Ma, Y., Chen, H., Lin, Z., Vucetic, B., Li, X. (2015). Spectrum sharing in RF-powered cognitive radio networks using game theory. *2015 IEEE 26th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Piscataway, New Jersey: IEEE. [More Information]

Chen, H., Gu, Y., Li, Y., Vucetic, B., Peng, Y. (2015). Throughput analysis of wireless-powered communications with energy beamforming and adaptive time switching. *9th International Conference on Signal Processing and Communication Systems (ICSPCS), 2015*, Piscataway, New Jersey: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2015). Traffic Modeling and Performance Evaluation of Wireless Smart Grid Access Networks. *IEEE 25th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Wang, M., Wang, P., Li, Y., Zhong, Z., Wang, F., Vucetic, B. (2015). Transceiver Design for Multi-User Cellular Two-Way Relay Networks. *IEEE Transactions on Signal Processing*, 63(15), 4065-4078. [More Information]

Teav, K., Zhou, Z., Vucetic, B. (2015). Triangular MIMO relay channels: Simultaneous signal and interference alignment. *IEEE Transactions on Vehicular Technology*, 64(1), 223-235. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2015). Wireless Networks Virtualisation: Traffic modeling and spectrum sharing. *2015 IEEE International Conference on Communications (ICC)*, Piscataway, New Jersey, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2014

Chen, H., Jiang, Y., Li, Y., Ma, Y., Vucetic, B. (2014). A game-theoretical model for wireless information and power transfer in relay interference channels. *2014 IEEE International Symposium on Information Theory*, Piscataway: IEEE. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2014). Analog Fountain Codes with Unequal Error Protection Property. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Chen, H., Li, Y., Louie, R., Vucetic, B. (2014). Autonomous Demand Side Management Based on Energy Consumption Scheduling and Instantaneous Load Billing: An Aggregative Game Approach. *IEEE Transactions on Smart Grid*, 5(4), 1744-1754. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2014). Capacity Approaching Analog Fountain Codes. *2014 Australian Communications Theory Workshop (AusCTW 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Bayat, S., Li, Y., Han, Z., Dohler, M., Vucetic, B. (2014). Distributed data aggregation in machine-to-machine communication networks based on coalitional game. *2014 IEEE Wireless Communications and Networking Conference (WCNC 2014)*, Piscataway, USA: IEEE. [More Information]

Yue, J., Lin, Z., Vucetic, B. (2014). Distributed Fountain Codes With Adaptive Unequal Error Protection in Wireless Relay Networks. *IEEE Transactions on Wireless Communications*, 13(8), 4220-4231. [More Information]

Bayat, S., Li, Y., Han, Z., Dohler, M., Vucetic, B. (2014). Distributed Massive Wireless Access for Cellular Machine-to-Machine Communication. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Louie, R., Hardjawana, W., Li, Y., Vucetic, B. (2014). Distributed multiple-access for smart grid home area networks: compressed sensing with multiple antennas. *IEEE Transactions on Smart Grid*, 5(6), 2938-2946. [More Information]

Bayat, S., Louie, R., Han, Z., Vucetic, B., Li, Y. (2014). Distributed User Association and Femtocell Allocation in Heterogeneous Wireless Networks. *IEEE Transactions on*

Communications, 62(8), 3027-3043. [More Information]

Zhao, Q., Zhou, Z., Li, J., Vucetic, B. (2014). Joint semi-blind channel estimation and synchronization in two-way relay networks. *IEEE Transactions on Vehicular Technology*, 63(7), 3276-3293. [More Information]

Wang, P., Li, Y., Vucetic, B. (2014). Millimeter Wave Communications With Symmetric Uniform Circular Antenna Arrays. *IEEE Communications Letters*, 18(8), 1307-1310. [More Information]

Wang, P., Li, Y., Yun, X., Song, L., Vucetic, B. (2014). Millimeter Wave Wireless Transmissions at E-band Channels with Uniform Linear Antenna Arrays: Beyond the Rayleigh Distance. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2014). Multiple access analog fountain codes. *2014 IEEE International Symposium on Information Theory*, Piscataway: IEEE. [More Information]

Li, Y., Li, J., Lin, Z., Li, Y., Vucetic, B. (2014). Network Coded Soft Forwarding for Multiple Access Relay Channels with Compressive Sensing. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yue, J., Lin, Z., Vucetic, B. (2014). On estimation of protection parameters for unequal error protection distributed fountain codes in wireless relay networks. *2014 IEEE Wireless Communications and Networking Conference (WCNC 2014)*, Piscataway, USA: IEEE. [More Information]

Li, J., Lin, Z., Vucetic, B., Xiao, M., Chen, W. (2014). One-Bit Soft Forwarding for Network Coded Uplink Channels with Multiple Sources. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yue, J., Lin, Z., Vucetic, B., Mao, G., Aulin, T. (2014). Performance Analysis of Distributed Raptor Codes in Wireless Relay Networks. *2014 11th Annual IEEE International Conference on Sensing, Communication, and Networking (SECON 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yue, J., Lin, Z., Bai, B., Vucetic, B. (2014). Performance Analysis of Unequal Error Protection Distributed Network Coding Based on Fountain Codes. *IEEE Wireless Communications Letters*, 3(3), 285-288. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2014). Performance evaluation of a hybrid of public and private Smart Grid wireless access networks. *2014 IEEE International*

Conference on Smart Grid Communications (SmartGridComm), United States: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Teav, K., Zhou, Z., Vucetic, B. (2014). Performance Optimization of MIMO Y Channels: Interference Alignment and Signal Detection. *IEEE Communications Letters*, 18(1), 66-69. [More Information]

Wei, S., Li, J., Chen, W., Su, H., Lin, Z., Vucetic, B. (2014). Power Adaptive Network Coding for a Non-Orthogonal Multiple-Access Relay Channel. *IEEE Transactions on Communications*, 62(3), 872-887. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2014). Queuing analysis for Smart Grid communications in wireless access networks. *2014 IEEE International Conference on Smart Grid Communications (SmartGridComm)*, United States: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Qiu, J., Lin, Z., Hardjawana, W., Vucetic, B., Tao, C., Tan, Z. (2014). Resource allocation for OFDMA system under high-speed railway condition. *2014 IEEE Wireless Communications and Networking Conference (WCNC 2014)*, Piscataway, USA: IEEE. [More Information]

Duo, B., Wang, P., Li, Y., Vucetic, B. (2014). Secure Transmission for Relay-Eavesdropper Channels Using Polar Coding. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Tian, S., Hardjawana, W., Vucetic, B. (2014). Sharpe Ratio for User Association Design in Downlink Heterogeneous Cellular Networks. *2014 IEEE International Conference on Communications Workshops (ICC)*, Sydney, Australia: IEEE. [More Information]

Xu, J., Li, J., Lin, Z., Vucetic, B. (2014). Soft information forwarding design for a two-way relaying channel. *2014 IEEE Wireless Communications and Networking Conference (WCNC 2014)*, Piscataway, USA: IEEE. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2014). Sparse event detection in wireless sensor networks using analog fountain codes. *2014 IEEE Global Communications Conference (GLOBECOM)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Wang, P., Li, Y., Yuan, X., Song, L., Vucetic, B. (2014). Tens of Gigabits Wireless Communications Over E-band LoS MIMO Channels With Uniform Linear Antenna Arrays. *IEEE Transactions on Wireless Communications*, 13(7), 3791-3805. [More Information]

Yue, J., Lin, Z., Vucetic, B., Xiao, P. (2014). The Design of Degree Distribution for Distributed Fountain Codes in Wireless Sensor Networks. *2014 IEEE International Conference on Communications (ICC 2014)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, J., Lin, Z., Vucetic, B., Xu, J., Xiao, M., Chen, W. (2014). Threshold-Based One-Bit Soft Forwarding for a Network Coded Multi-Source Single-Relay System. *IEEE Transactions on Communications*, 62(5), 1604-1620. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2014). Traffic Modeling and Optimization in Public and Private Wireless Access Networks for Smart Grids. *IEEE Transactions on Smart Grid*, 5(4), 1949-1960. [More Information]

Al-Khatib, O., Hardjawana, W., Vucetic, B. (2014). Traffic modeling for Machine-to-Machine (M2M) last mile wireless access networks. *2014 IEEE Global Communications Conference (GLOBECOM)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Wang, M., Wang, P., Li, Y., Zhong, Z., Wang, F., Vucetic, B. (2014). Transceiver Design for Hybrid One-Way and Two-Way Relay Networks. *IEEE Signal Processing Letters*, 21(2), 204-207. [More Information]

Chen, H., Zhou, X., Li, Y., Wang, P., Vucetic, B. (2014). Wireless-Powered Cooperative Communications via a Hybrid Relay. *2014 IEEE Information Theory Workshop (ITW)*, Danvers, MA, United States: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2013

Tian, S., Li, Y., Shirvanimoghaddam, M., Vucetic, B. (2013). A Physical-Layer Rateless Code for Wireless Channels. *IEEE Transactions on Communications*, 61(6), 2117-2127. [More Information]

Yang, X., Jiang, W., Vucetic, B. (2013). A Random Beamforming Technique for Omnidirectional Coverage in Multiple-Antenna Systems. *IEEE Transactions on Vehicular Technology*, 62(3), 1420-1425. [More Information]

Tian, S., Li, Y., Vucetic, B. (2013). A rateless code for dynamic decode-and-forward relaying in wireless relay networks. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, Y., Lin, Z., Li, J., Vucetic, B. (2013). A soft information delivery scheme in two-way relay channels with network coding. *2013 IEEE 24th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More

Information]

Chen, H., Louie, R., Li, Y., Wang, P., Vucetic, B. (2013). A variational inequality approach to instantaneous load pricing based demand side management for future smart grid. *2013 IEEE International Conference on Communications (ICC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, J., Xu, J., Lin, Z., Vucetic, B. (2013). Achievable rate for a multi-source relaying system. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2013). Adaptive Analog Fountain for Wireless Channels. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2013). Application of compressive sensing to channel estimation of high mobility OFDM systems. *2013 IEEE International Conference on Communications (ICC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2013). Channel Estimation and ICI Cancellation for High Mobility Pilot-Aided MIMO-OFDM Systems. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, J., Chen, W., Lin, Z., Vucetic, B. (2013). Design of Physical Layer Network Coded LDPC Code for a Multiple-Access Relaying System. *IEEE Communications Letters*, 17(4), 749-752. [More Information]

Pang, K., Lin, Z., Li, Y., Vucetic, B. (2013). Distributed Network-Channel Codes Design with Short Cycles Removal. *IEEE Wireless Communications Letters*, 2(1), 62-65. [More Information]

Shirvanimoghaddam, M., Li, Y., Tian, S., Vucetic, B. (2013). Distributed Raptor Coding for Erasure Channels: Partially and Fully Coded Cooperation. *IEEE Transactions on Communications*, 61(9), 3576-3589. [More Information]

Li, Y., Rahman, M., Ng, S., Vucetic, B. (2013). Distributed soft coding with a soft input soft output (SISO) relay encoder in parallel relay channels. *IEEE Transactions on Communications*, 61(9), 3660-3672. [More Information]

Bayat, S., Louie, R., Vucetic, B., Li, Y. (2013). Dynamic decentralised algorithms for cognitive radio relay networks with multiple primary and secondary users utilising matching theory. *Transactions on Emerging Telecommunications Technologies*, 24(5), 486-502. <a

<http://dx.doi.org/10.1002/ett.2663>>[More Information]

Ma, L., Lin, Z., Zhang, Z., Mao, G., Vucetic, B. (2013). Improving reliability in lossy wireless networks using network coding. *2013 IEEE International Conference on Communications Workshops*, Piscataway, United States: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Chen, Y., Lin, Z., Vucetic, B., Cai, J. (2013). Inter-cell Interference Management for Heterogenous Networks based on Belief Propagation Algorithms. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2013). Near-Capacity Adaptive Analog Fountain Codes for Wireless Channels. *IEEE Communications Letters*, 17(12), 2241-2244. [More Information]

Ma, Y., Huang, T., Li, J., Yuan, J., Lin, Z., Vucetic, B. (2013). Novel Nested Convolutional Lattice Codes for Multi-Way Relaying Systems over Fading Channels. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, J., Karim, M., Yuan, J., Chen, Z., Lin, Z., Vucetic, B. (2013). Novel Soft Information Forwarding Protocols in Two-Way Relay Channels. *IEEE Transactions on Vehicular Technology*, 62(5), 2374-2381. [More Information]

Li, J., Lin, Z., Xu, J., Vucetic, B. (2013). On The Physical Layer Network Coded LDPC Codes for A Multiple-Access Relaying System. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yue, J., Lin, Z., Vucetic, B., Mao, G., Aulin, T. (2013). Performance Analysis of Distributed Raptor Codes in Wireless Sensor Networks. *IEEE Transactions on Communications*, 61(10), 4357-4368. [More Information]

Bayat, S., Louie, R., Han, Z., Vucetic, B., Li, Y. (2013). Physical-Layer Security in Distributed Wireless Networks Using Matching Theory. *IEEE Transactions on Information Forensics and Security*, 8(5), 717-732. [More Information]

Ma, L., Lin, Z., Zhang, Z., Mao, G., Vucetic, B. (2013). Reliability of All-to-all Broadcast with Network Coding. *2013 IEEE Global Communications Conference (GLOBECOM 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Wang, M., Wang, P., Li, Y., Zhong, Z., Wang, F., Vucetic, B.

(2013). Transceiver Design for Multi-Pair Two-Way Relay Networks with Analogue Network Coding. *IEEE Communications Letters*, 17(12), 2284-2287. [More Information]

Yue, J., Lin, Z., Li, J., Bai, B., Vucetic, B. (2013). Unequal error protection distributed network-channel coding based on LT codes for wireless sensor networks. *2013 IEEE Wireless Communications and Networking Conference (WCNC 2013)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2012

Aboutorab, N., Hardjawana, W., Vucetic, B. (2012). A new iterative doppler-assisted channel estimation joint with parallel ICI cancellation for high-mobility MIMO-OFDM systems. *IEEE Transactions on Vehicular Technology*, 61(4), 1577-1589. [More Information]

Zhou, Z., Vucetic, B. (2012). An Iterative Beamforming Optimization Algorithm for Generalized MIMO Y Channels. *2012 IEEE International Conference on Communications (ICC 2012)*, Ottawa, Canada: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2012). An Iterative Doppler-assisted Channel Estimation for High Mobility OFDM Systems. *2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC)*, Piscataway, NJ: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Teav, K., Vucetic, B. (2012). Beamforming Optimization and Power Allocation for MIMO Asymmetric Multi-Way Relay Channels. *IEEE Communications Letters*, 16(6), 820-823. [More Information]

Zhou, Z., Vucetic, B. (2012). Beamforming Optimization for Generalized MIMO Y Channels with Both Multiplexing and Diversity. *2012 IEEE 75th Vehicular Technology Conference (VTC Spring)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yue, J., Pang, K., Lin, Z., Li, Y., Bai, B., Vucetic, B. (2012). Design and Performance Analysis of Distributed Network-Channel Codes for Wireless Sensor Networks. *2012 IEEE Global Communications Conference (GLOBECOM2012)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Bayat, S., Louie, R., Li, Y., Ng, S., Vucetic, B. (2012). Distributed Algorithm for Multiple Antenna Cooperative Cognitive Radio Networks with Multiple Primary and Secondary Users. *Progress in Electromagnetics Research Symposium, PIERS 2012*, Cambridge: The Electromagnetics Academy.

Louie, R., Hardjawana, W., Li, Y., Vucetic, B. (2012). Distributed Multiple-Access for Wireless Communications: Compressed Sensing with

Multiple Antennas. *2012 IEEE Global Communications Conference (GLOBECOM2012)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Pang, K., Lin, Z., Uchoa-Filho, B., Vucetic, B. (2012). Distributed Network Coding for Wireless Sensor Networks Based on Rateless LT Codes. *IEEE Wireless Communications Letters*, 1(6), 561-564. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2012). Distributed Rateless Coding with Cooperative Sources. *2012 IEEE International Symposium on Information Theory (ISIT 2012)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Bayat, S., Louie, R., Han, Z., Li, Y., Vucetic, B. (2012). Distributed Stable Matching Algorithm for Physical Layer Security with Multiple Source-Destination Pairs and Jammer Nodes. *2012 IEEE Wireless Communications and Networking Conference, WCNC 2012*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Qian, M., Hardjawana, W., Li, Y., Vucetic, B., Shi, J., Yang, X. (2012). Inter-cell Interference Coordination Through Adaptive Soft Frequency Reuse in LTE Networks. *2012 IEEE Wireless Communications and Networking Conference, WCNC 2012*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Ma, Y., Lin, Z., Chen, H., Vucetic, B. (2012). Multiple Interpretations for Multi-source Multi-destination Wireless Relay Network Coded Systems. *2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC)*, Piscataway, NJ: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Bayat, S., Louie, R., Han, Z., Li, Y., Vucetic, B. (2012). Multiple Operator and Multiple Femtocell Networks: Distributed Stable Matching. *2012 IEEE International Conference on Communications (ICC 2012)*, Ottawa, Canada: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Rebelatto, J., Uchoa-Filho, B., Li, Y., Vucetic, B. (2012). Multiuser cooperative diversity through network coding based on classical coding theory. *IEEE Transactions on Signal Processing*, 60(2), 916-926. [More Information]

Teav, K., Zhou, Z., Vucetic, B. (2012). On the Asymptotic Bit Error Probability of M-QAM for MIMO Y Channels. *IEEE Communications Letters*, 16(5), 577-580. [More Information]

Li, Y., Rahman, M., Vucetic, B. (2012). SISO MAP Decoding of Rate-1 Recursive Convolutional Codes: A Revisit. *2012 IEEE International Symposium on Information Theory (ISIT 2012)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

[More Information]

Teav, K., Zhou, Z., Vucetic, B. (2012). Throughput Optimization for MIMO Y Channels with Physical Network Coding and Adaptive Modulation. *2012 IEEE 75th Vehicular Technology Conference (VTC Spring)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Sun, C., Yang, C., Li, Y., Vucetic, B. (2012). Transceiver Design for Multi-User Multi-Antenna Two-Way Relay Cellular Systems. *IEEE Transactions on Communications*, 60(10), 2893-2903. [More Information]

Shirvanimoghaddam, M., Li, Y., Vucetic, B. (2012). User Cooperation via Rateless Coding. *2012 IEEE Global Communications Conference (GLOBECOM2012)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2011

Zhou, Z., Vucetic, B. (2011). A Cooperative Beamforming Scheme in MIMO Relay Broadcast Channels. *IEEE Transactions on Wireless Communications*, 10(3), 940-947. [More Information]

Yang, X., Vucetic, B. (2011). A Frequency Domain Multi-User Detector for TD-CDMA Systems. *IEEE Transactions on Communications*, 59(9), 2424-2433. [More Information]

Tian, S., Li, Y., Vucetic, B. (2011). A Near Optimal Amplify and Forward Relaying in Two-Way Relay Networks. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Vucetic, B. (2011). Adaptive Coded MIMO Systems with Near Full Multiplexing Gain Using Outdated CSI. *IEEE Transactions on Wireless Communications*, 10(1), 294-302. [More Information]

Rebelatto, J., Uchoa-Filho, B., Li, Y., Vucetic, B. (2011). Adaptive Distributed Network-Channel Coding. *IEEE Transactions on Wireless Communications*, 10(9), 2818-2822. [More Information]

Rebelatto, J., Uchoa-Filho, B., Li, Y., Vucetic, B. (2011). Adaptive Distributed Network-Channel Coding For Cooperative Multiple Access Channel. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Ivanis, P., Blagojevic, V., Drajić, D., Vucetic, B. (2011). Closed-Form Level Crossing Rates Expressions of Orthogonalized Correlated MIMO Channels. *IEEE Transactions on Vehicular Technology*, 60(4), 1910-1916. [More Information]

Bayat, S., Louie, R., Li, Y., Vucetic, B. (2011). Cognitive

Radio Relay Networks with Multiple Primary and Secondary Users: Distributed Stable Matching Algorithms for Spectrum Access. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Hardjawana, W., Vucetic, B., Li, Y. (2011). Cooperative base station techniques for cellular wireless networks. In Ekram Hossain, Dong In Kim, Vijay K Bhargava (Eds.), *Cooperative Cellular Wireless Networks*, (pp. 47-76). UK: Cambridge University Press. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2011). Cooperative Precoding, Beamforming and Power Allocation in MU-MIMO Relay Networks. *54th Annual IEEE Global Telecommunications Conference: "Energizing Global Communications" (GLOBECOM 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Manna, R., Louie, R., Li, Y., Vucetic, B. (2011). Cooperative Spectrum Sharing in Cognitive Radio Networks With Multiple Antennas. *IEEE Transactions on Signal Processing*, 59(11), 5509-5522. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2011). Correspondence: A New Resource Allocation Technique in MU-MIMO Relay Networks. *IEEE Transactions on Vehicular Technology*, 60(7), 3485-3490. [More Information]

Pang, K., Lin, Z., Li, Y., Vucetic, B. (2011). Design of Distributed Network-Channel Codes for Wireless Sensor Networks. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Xiao, P., Lin, Z., Fagan, A., Cowan, C., Vucetic, B., Wu, Y. (2011). Frequency-domain equalization for OFDMA-based multiuser MIMO systems with improper modulation schemes. *Eurasip Journal on Advances in Signal Processing*, 2011 (73), 1-8. [More Information]

Zhao, Q., Zhou, Z., Vucetic, B. (2011). Low Complexity Semi-Blind Channel Estimation Algorithm in Two-Way Relay Networks. *2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2011*, Piscataway, NJ: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Hardjawana, W., Vucetic, B., Li, Y. (2011). MIMO Inter-Cell Interference Management through Base Station Cooperation. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

You, Q., Chen, Z., Li, Y., Vucetic, B. (2011). Multi-hop Bi-directional Relay Transmission Schemes Using Amplify-and-Forward and Analog Network Coding. *2011 IEEE International Conference on Communications (ICC 2011)*, Piscataway:

(IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Tian, S., Li, Y., Vucetic, B. (2011). Piecewise-and-Forward Relaying in Wireless Relay Networks. *IEEE Signal Processing Letters*, 18(5), 323-326. [More Information]

Ivanis, P., Blagojevic, V., Drajić, D., Vucetic, B. (2011). Second-order statistics of a maximum ratio combiner with unbalanced and unequally distributed Nakagami branches. *IET Communications*, 5(13), 1829-1835. [More Information]

2010

Hardjawana, W., Li, R., Vucetic, B., Li, Y., Yang, X. (2010). A New Iterative Channel Estimation for High Mobility MIMO-OFDM Systems. *2010 IEEE 71st Vehicular Technology Conference, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers*. [More Information]

Suraweera, H., Karagiannidis, G., Li, Y., Garg, H., Nallanathan, A., Vucetic, B. (2010). Amplify-and-Forward Relay Transmission with End-to-End Antenna Selection. *2010 IEEE Wireless Communications and Networking Conference (WCNC 2010)*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Rahman, M., Li, Y., Vucetic, B. (2010). An Iterative ZigZag Decoding for Combating Collisions in Wireless Networks. *IEEE Communications Letters*, 14(3), 242-244. [More Information]

Zhou, Z., Vucetic, B. (2010). An Orthogonal Projection Optimization Algorithm for Multi-User MIMO Channels. *2010 IEEE 71st Vehicular Technology Conference, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers*. [More Information]

Lin, Z., Xiao, P., Vucetic, B., Sellathurai, M. (2010). Analysis of receiver algorithms for LTE SC-FDMA based uplink MIMO systems. *IEEE Transactions on Wireless Communications*, 9(1), 60-65. [More Information]

Manna, R., Louie, R., Li, Y., Vucetic, B. (2010). Cooperative Amplify-and-Forward Relaying in Cognitive Radio Networks. *2010 Fifth International Conference on Cognitive Radio Oriented Wireless Networks and Communications*, Gent, Belgium: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Q., Li, Y., Lau, F., Vucetic, B. (2010). Decode-and-forward two-way relaying with network coding and opportunistic relay selection. *IEEE Transactions on Communications*, 58(11), 3070-3076. [More Information]

Rahman, M., Li, Y., Vucetic, B. (2010). Distributed Analog Channel Coding for Wireless Relay Networks. *2010 IEEE Global Telecommunications Conference, USA: (IEEE) Institute*

of Electrical and Electronics Engineers. [More Information]

Lin, Z., Li, Y., Vucetic, B. (2010). Distributed Network Channel Coding for Multiple Access Relay Interference Channels. *2010 IEEE 71st Vehicular Technology Conference*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers.

Rebelatto, J., Uchoa-Filho, B., Li, Y., Vucetic, B. (2010). Generalized Distributed Network Coding Based on Nonbinary Linear Block Codes for Multi-User Cooperative Communications. *2010 IEEE International Symposium on Information Theory*, Piscataway, New Jersey, United States of America: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Aboutorab, N., Hardjawana, W., Vucetic, B. (2010). Interference Cancellation in Multi-user MIMO Relay Networks Using Beamforming and Precoding. *2010 IEEE Wireless Communications and Networking Conference (WCNC 2010)*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Manna, R., Louie, R., Li, Y., Vucetic, B. (2010). Interference Cancellation in Two Hop Multiuser Cognitive Radio Networks. *2010 IEEE Wireless Communications and Networking Conference (WCNC 2010)*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Pang, K., Lin, Z., Li, Y., Vucetic, B. (2010). Joint Network-Channel Code Design for Real Wireless Relay Networks. *6th International Symposium on Turbo Codes & Iterative Information Processing*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Lin, Z., Xiao, P., Vucetic, B., Cowan, C. (2010). Multiuser Scheduler and FDE Design for SC-FDMA MIMO Systems. *2010 IEEE International Conference on Communications*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Pang, K., Lin, Z., Li, Y., Vucetic, B. (2010). Performance Evaluation of Joint Network-Channel Coding under A Real Network Topology Model. *2010 IEEE 71st Vehicular Technology Conference*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers.

Zhou, E., Shi, J., Li, Y., Vucetic, B., Huang, X., Guo, Y. (2010). Power Allocation based on Truncated Squared Norm of Channel Equalization Coefficients for TDD LTE-A Uplink Systems. *2010 IEEE Wireless Communications and Networking Conference (WCNC 2010)*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Louie, R., Li, Y., Vucetic, B. (2010). Practical Physical Layer Network Coding for Two-Way Relay Channels: Performance Analysis and Comparison. *IEEE Transactions on Wireless Communications*, 9(2), 764-777. [More Information]

Li, Y., Louie, R., Vucetic, B. (2010). Relay selection with

network coding in two-way relay channels. *IEEE Transactions on Vehicular Technology*, 59(9), 4489-4499. [More Information]

Sun, C., Li, Y., Vucetic, B., Yang, C. (2010). Transceiver Design for Multi-user Multi-antenna Two-way Relay Channels. *2010 IEEE Global Telecommunications Conference*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Louie, R., Li, Y., Vucetic, B. (2010). Zero Forcing in General Two-Hop Relay Networks. *IEEE Transactions on Vehicular Technology*, 59(1), 191-202. [More Information]

2009

Li, R., Hardjawana, W., Li, Y., Vucetic, B., Yang, X. (2009). A low complexity iterative receiver with joint channel estimation and ICI cancellation for multi-antenna OFDM systems. *The 20th Personal, Indoor and Mobile Radio Communications Symposium PIMRC2009*, Tokyo, Japan: PIMRC. [More Information]

Wu, L., Zhou, Z., Vucetic, B. (2009). A low complexity limited feedback scheme in MIMO broadcast channels. *The 20th Personal, Indoor and Mobile Radio Communications Symposium PIMRC2009*, Tokyo, Japan: PIMRC. [More Information]

Zhou, Z., Vucetic, B. (2009). Adaptive MIMO Systems with High Spectral Efficiency. In Chen Sun, Jun Cheng and Takashi Ohira (Eds.), *Handbook on Advancements in Smart Antenna Technologies for Wireless Networks*, (pp. 286-307). Hershey, USA, and London: Information Science Reference.

Zhou, Z., Vucetic, B. (2009). An optimized cooperative beamforming scheme in MIMO relay broadcast channels. *IEEE Globecom 2009 Global Communications Conference*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Vucetic, B. (2009). An optimized network coding scheme in two-way relay channels with multiple relay antennas. *The 20th Personal, Indoor and Mobile Radio Communications Symposium PIMRC2009*, Tokyo, Japan: PIMRC. [More Information]

Lin, Z., Vucetic, B. (2009). Analytical upper bounds for convolutional coded CPM over rings. *IEEE Communications Letters*, 13(6), 372-374. [More Information]

Louie, R., Li, Y., Suraweera, H., Vucetic, B. (2009). Beamforming with antenna correlation in two hop amplify and forward relay networks. *2009 IEEE Wireless Communications and Networking conference*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Hardjawana, W., Vucetic, B., Li, Y., Zhou, Z. (2009). Cooperative multi-user MIMO wireless systems employing precoding and beamforming. *IEEE Globecom 2009 Global Communications Conference*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

re Information]

Hardjawana, W., Vucetic, B., Li, Y. (2009). Cooperative precoding and beamforming for co-existing multi-user MIMO systems. *2009 IEEE International Conference on Communication ICC 2009*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, Y., Vucetic, B., Chen, Z., Yuan, J. (2009). Distributed turbo coding with selective relaying. *The 20th Personal, Indoor and Mobile Radio Communications Symposium PIMRC2009*, Tokyo, Japan: PIMRC. [More Information]

Chen, Z., Chi, Z., Li, Y., Vucetic, B. (2009). Error performance of maximal-ratio combining with transmit antenna selection in flat Nakagami-m fading channels. *IEEE Transactions on Wireless Communications*, 8(1), 424-431. [More Information]

Hardjawana, W., Vucetic, B., Li, Y. (2009). Multi-user cooperative base station systems with joint precoding and beamforming. *IEEE Journal on Selected Topics in Signal Processing*, 3(6), 1079-1093. [More Information]

Lin, Z., Vucetic, B. (2009). Performance analysis for convolutional coded CPM over rings. *IEEE Transactions on Wireless Communications*, 8(9), 4848-4854. [More Information]

Louie, R., Li, Y., Suraweera, H., Vucetic, B. (2009). Performance analysis of beamforming in two hop amplify and forward relay networks with antenna correlation. *IEEE Transactions on Wireless Communications*, 8(6), 3132-3141. [More Information]

Louie, R., Li, Y., Vucetic, B. (2009). Performance Analysis of Physical Layer Network Coding in Two-Way Relay Channels. *IEEE Globecom 2009 Global Communications Conference*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Lin, Z., Xiao, P., Vucetic, B. (2009). SINR distribution for LTE downlink multiuser MIMO systems. *IEEE International Conference on Acoustic, Speech, and Signal Processing ICASSP 2009*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Lin, Z., Vucetic, B. (2009). Spatial frequency scheduling for long term evolution single carrier frequency division multiple access-based uplink multiple-input multiple-output systems. *IET Communications*, 3(7), 1163-1169. [More Information]

Lin, Z., Xiao, P., Sorenson, T., Vucetic, B. (2009). Spatial frequency scheduling for uplink SC-FDMA based linearly precoded multiuser MIMO systems. *European Transactions on Telecommunications*, 21(3), 213-223. [More Information]

Hardjawana, W., Vucetic, B., Li, Y., Zhou, Z. (2009). Spectrally efficient wireless systems with cooperative

precoding and beamforming. *IEEE Transactions on Wireless Communications*, 8(12), 5871-5883. [More Information]

Chen, Z., Collings, I., Zhou, Z., Vucetic, B. (2009). Transmit antenna selection schemes with reduced feedback rate. *IEEE Transactions on Wireless Communications*, 8(2), 1006-1016. [More Information]

Suraweera, H., Louie, R., Li, Y., Karagiannidis, G., Vucetic, B. (2009). Two hop amplify-and-forward transmission in mixed rayleigh and rician fading channels. *IEEE Communications Letters*, 13(4), 227-229. [More Information]

Louie, R., Li, Y., Vucetic, B. (2009). Zero forcing processing in two hop networks with multiple source, relay and destination nodes. *2009 IEEE International Conference on Communication ICC 2009*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

2008

Pang, K., Li, Y., Vucetic, B. (2008). An Improved Hybrid ARQ Scheme in Cooperative Wireless Networks. *2008 IEEE 68th Vehicular Technology Conference, VTC 2008-Fall*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Hardjawana, W., Vucetic, B., Li, Y. (2008). Cooperative Precoding and Beamforming in Co-Working WLANs. *2008 IEEE International Conference on Communications (ICC)*, New Jersey, NY: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Wu, L., Hardjawana, W., Vucetic, B. (2008). Cooperative Transmission Scheme in MIMO Relay Broadcast Channels. *19th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2008*, France: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, Y., Vucetic, B., Yuan, J. (2008). Distributed Turbo Coding with Hybrid Relaying Protocols. *19th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2008*, France: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Santoso, A., Li, Y., Allan, J., Vucetic, B. (2008). Dynamic transmit Power Allocation in Space-Time Trellis Coded Systems. *IEEE Transactions on Wireless Communications*, 7(8), 3079-3089. [More Information]

Lin, Z., Vucetic, B., Mao, J. (2008). Ergodic Capacity of LTE Downlink Multiuser MIMO Systems. *2008 IEEE International Conference on Communications (ICC)*, New Jersey, NY: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Hardjawana, W., Vucetic, B. (2008). Iterative

Multiple Beamforming Algorithm for MIMO Broadcast Channels. *IEEE Communications Letters*, 12(10), 743-745. [More Information]

Li, R., Li, Y., Vucetic, B. (2008). Iterative Receiver for MIMO-OFDM Systems with Joint ICI Cancellation and Channel Estimation. *2008 IEEE Wireless Communication and Networking Conference WCNC 2008*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B. (2008). On the Performance of a Simple Adaptive Relaying Protocol for Wireless Relay Networks. *2008 IEEE 67th Vehicular Technology Conference, VTC 2008-Spring*, Marina Bay, Singapore: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Louie, R., Li, Y., Vucetic, B. (2008). Performance Analysis of Beamforming in Two Hop Amplify and Forward Relay Networks. *2008 IEEE International Conference on Communications (ICC)*, New Jersey, NY: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Kingsley, J., Allan, A., Li, Y., Vucetic, B., Yuan, J. (2008). Power Allocation and Code Construction for Space-Time Turbo Trellis Codes with Partial CSI Feedback. *Electronics Letters*, 44(11), 689-690. [More Information]

Lin, Z., Vucetic, B. (2008). Power and Rate Adaptation for Wireless Network Coding with Opportunistic Scheduling. *2008 IEEE International Symposium on Information Theory (ISIT 2008)*, Toronto, Ontario, Canada: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Ivanis, P., Drajić, D., Vucetic, B. (2008). The Second Order Statistics of Maximal Ratio Combining with Unblanced Branches. *IEEE Communications Letters*, 12(7), 508-510. [More Information]

2007

Zhou, Z., Vucetic, B., Chen, Z. (2007). Achieving Full Multiplexing Gain of MIMO Systems Using Adaptive Modulation and Coding. *The 2nd International Conference on Wireless Broadband and Ultra Wideband Communications AusWireless 2007*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Zhou, Z., Vucetic, B., Chen, Z. (2007). Adaptive bit-interleaved coded modulation mimo system with near full multiplexing gain. *18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC'07*, Athens, Greece: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B., Chen, Z., Yuan, J. (2007). An Improved Relay Selection Scheme with Hybrid Relaying Protocols. *GLOBECOM 2007 2007 IEEE Global Telecommunications Conference*, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Louie, R., McKay, M., Collings, I., Vucetic, B. (2007). Capacity Approximations for Multiuser MIMO-MRC with Antenna Correlation. *2007 IEEE International Conference on Communications (ICC 2007)*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B. (2007). Design of Differential Space-Time Trellis Codes. *IEEE Transactions on Wireless Communications*, 6(5), 1631-1637. [More Information]

Li, Y., Vucetic, B., Zhou, Z., Dohler, M. (2007). Distributed adaptive power allocation for wireless relay networks. *IEEE Transactions on Wireless Communications*, 6(3), 948-958. [More Information]

Li, Y., Vucetic, B., Zhou, Z., Dohler, M. (2007). Distributed adaptive power allocation for wireless relay networks. *2007 IEEE International Conference on Communications (ICC 2007)*, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Ivanis, P., Drajić, D., Vucetic, B. (2007). Level crossing rates in transmit beamforming systems. *IEEE Communications Letters*, 11(3), 246-248. [More Information]

Ivanis, P., Drajić, D., Vucetic, B. (2007). Level Crossing Rates of MIMO-MRC Ricean Channels and Their Implications on Adaptive Systems. *2007 IEEE International Conference on Communications (ICC 2007)*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Ivanis, P., Drajić, D., Vucetic, B. (2007). Level crossing rates of Ricean MIMO channel eigenvalues for imperfect and outdated CSI. *IEEE Communications Letters*, 11(10), 775-777. [More Information]

Zhou, Z., Vucetic, B. (2007). Multiplexing Gain of Variable-Rate MIMO Systems. *IEEE Communications Letters*, 11(4), 289-291. [More Information]

Chen, Z., Collings, I., Zhou, Z., Vucetic, B. (2007). Novel Transmit Antenna Selection Schemes with Reduced Channel Feedback Rate Requirement. *18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC'07*, Athens, Greece: (IEEE) Institute of Electrical and Electronics Engineers.

Ivanis, P., Drajić, D., Vucetic, B. (2007). Performance Evaluation of Adaptive MIMO-MRC Systems with Imperfect CSI by a Markov Model. *2007 IEEE 65th Vehicular Technology Conference VTC2007-Spring*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Vucetic, B., Li, Y., Perez, L., Jiang, F. (2007). Recent Advances in Turbo Code Design and Theory. *Proceedings of the IEEE*, 95(6), 1323-1344. [More Information]

Zhou, Z., Vucetic, B. (2007). Robust Adaptive Turbo Coded MIMO System with Near Full Multiplexing Gain. *GLOBECOM 2007 2007 IEEE Global Telecommunications Conference*, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

2006

Tang, Y., Vucetic, B., Li, Y. (2006). A double-stage multiuser detector with FFT-based equalization for asynchronous CDMA ultra-wideband communication systems. *IEEE Transactions on*

Wireless Communications, 5(11), 3266-3277. [More Information]

Hardjawana, W., Vucetic, B., Jamalipour, A. (2006). Adaptive beamforming and modulation for OFDM in co-working wlans with ack eigen-steering. *17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06)*, Toronto, Ontario, Canada: (IEEE) Institute of Electrical and Electronics Engineers.

Zhou, Z., Vucetic, B. (2006). Adaptive bit-interleaved coded modulation in MIMO systems using outdated CSI. *2006 IEEE International Conference on Communications (ICC 2006)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Teekapakvisit, C., Pham, V., Vucetic, B. (2006). An Adaptive Iterative Receiver For Space-Time Coded Mimo Systems. *Journal of Telecommunications and Information Technology*, 1, 54-59.

Li, Y., Vucetic, B. (2006). Code Design for Combined Space Time Trellis Codes and Beamforming on Slow Fading Channels. *2006 IEEE Information Theory Workshop*. (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B., Wong, T., Dohler, M. (2006). Distributed turbo coding with soft information relaying in multihop relay networks. *IEEE Journal on Selected Areas in Communications*, 24(11), 2040-2050. [More Information]

Allan, J., Li, Y., Santoso, A., Vucetic, B. (2006). Dynamic transmit power allocation scheme for space-time turbo trellis codes with partial csi feedback. *17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06)*, Toronto, Ontario, Canada: (IEEE) Institute of Electrical and Electronics Engineers.

Santoso, A., Tang, Y., Vucetic, B., Jamalipour, A., Li, Y. (2006). Interference cancellation in coexisting wireless local area networks. *10th IEEE Singapore International Conference on Communication Systems (ICCS 2006)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Munasinghe, K., Jamalipour, A., Vucetic, B. (2006). Interworking between WLAN and 3G Cellular Networks: An IMS Based Architecture. *AUSWireless 06: 1st Australian Conference on Wireless Broadband and Ultra Wideband Communications*, Sydney: UTS Library.

Marinkovic, S., Vucetic, B., Chueh, J. (2006). Multiuser detection techniques with decision statistics combining for layered space-time coded CDMA systems. *European Transactions on Telecommunications*, 17(4), 423-438. [More Information]

Dohler, M., Aghvami, A., Zhou, Z., Li, Y., Vucetic, B. (2006). Near-optimum transmit power allocation for space-time block encoded wireless communication systems. *IEE Proceedings - Communications*, 153(3), 459-463. [More Information]

Li, Y., Vucetic, B., Zhou, Z., Tang, Y. (2006). Novel full diversity space time codes. *IEEE Transactions on Wireless Communications*, 5(2), 296-300.

Li, Y., Vucetic, B., Allan, J. (2006). On the Performance of Space Time Turbo Trellis Codes with Adaptive Power Allocation. *IEEE Communications Letters*, 10(3), 132-134. [More Information]

Dohler, M., Li, Y., Vucetic, B., Aghvami, A., Arndt, M., Barthel, D. (2006). Performance analysis of distributed space-time block-encoded sensor networks. *IEEE Transactions on Vehicular Technology*, 55(6), 1776-1789. [More Information]

Kannan, A., Mao, G., Vucetic, B. (2006). Simulated annealing based wireless sensor network localization. *Journal of Computers*, 1(2), 15-22. [More Information]

Kannan, A., Mao, G., Vucetic, B. (2006). Simulated annealing based wireless sensor network localization with flip ambiguity mitigation. *2006 IEEE 63rd Vehicular Technology Conference VTC2006-Spring*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers.

2005

Li, Y., Tang, Y., Vucetic, B., Dohler, M. (2005). A Full Rate Differential Space-Time Trellis Codes. *12th International Conference on Telecommunications ICT 2005*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Chueh, J., Li, Y., Vucetic, B. (2005). A New Approach to Iterative Receiver Design Using Multi-path Codes with Applications to Layered Space-Time Coded Systems. *2005 IEEE 61st Vehicular Technology Conference : VTC2005-Spring : Paving the Path for a Wireless Future*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Li, Y., Vucetic, B. (2005). A simple detection scheme for Alamouti space-time block codes. *WSEAS Transactions on Information Science and Applications*, 2(3), 301-304.

Li, Y., Vucetic, B., Doherty, M. (2005). A space-time trellis coding scheme for vector Gaussian broadcast channels. *IEEE Communications Letters*, 9(5), 388-390. [More Information]

Karim, M., Li, Y., Vucetic, B. (2005). Adaptive Transmit Power Allocation for Layered Space-Time Architecture with Improved Iterative Parallel Interference Canceller (PIC). *2005 Fifth International Conference on Information, Communications and Signal Processing - ICICS 2005*, Bangkok, Thailand: (IEEE) Institute of Electrical and Electronics Engineers.

Tang, Y., Vucetic, B., Li, Y. (2005). An FFT-based Multiuser Detection for Asynchronous Block-Spreading CDMA Ultra Wideband Communication Systems. *2005 IEEE International Conference on Communications ICC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Tang, Y., Vucetic, B., Li, Y. (2005). An iterative singular vectors estimation scheme for beamforming transmission and detection in MIMO systems. *IEEE Communications Letters*, 9(6), 505-507. [More Information]

Chen, Z., Yuan, J., Vucetic, B. (2005). Analysis of transmit antenna selection/maximal-ratio combining in Rayleigh fading channels. *IEEE Transactions on Vehicular Technology*, 54(4), 1312-1321. [More Information]

Li, Y., Vucetic, B., Zhang, Q., Huang, Y. (2005). Assembled space-time turbo trellis codes. *IEEE Transactions on Vehicular Technology*, 54(5), 1768-1772. <a

<http://dx.doi.org/10.1109/TVT.2005.853979>>[More Information]

Chen, Z., Vucetic, B., Yuan, J. (2005). Asymptotic performance of space-time block codes with imperfect transmit antenna selection. *Electronics Letters*, 41(9), 538-540. [More Information]

Li, Y., Vucetic, B. (2005). Combined Space Time Trellis Codes and Beamforming on Fast Fading Channels. *2005 IEEE 61st Vehicular Technology Conference : VTC2005-Spring : Paving the Path for a Wireless Future*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Zhou, Z., Vucetic, B., Chen, Z., Li, Y. (2005). Design of Adaptive Modulation in MIMO Systems Using Outdated CSI. *2005 IEEE 16th International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Teekapakvisit, C., Li, Y., Pham, V., Vucetic, B. (2005). Frequency domain adaptive iterative receiver for layered space-time coding CDMA systems. *8th International Symposium on Signal Processing and Its Applications ISSPA 2005*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Lo, K., Chen, Z., Marinkovic, S., Vucetic, B. (2005). Layered space-time structures with low-density parity-check and convolutional codes as constituent codes. *European Transactions on Telecommunications*, 16(2), 121-135. [More Information]

Teekapakvisit, C., Li, Y., Pham, V., Vucetic, B. (2005). Low Complexity Adaptive Iterative Receiver for Layered Space-time Coding CDMA Systems. *2005 IEEE 16th International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Zhou, Z., Vucetic, B., Doherty, M., Li, Y. (2005). MIMO systems with adaptive modulation. *IEEE Transactions on Vehicular Technology*, 54(5), 1828-1842. [More Information]

Li, Y., Vucetic, B. (2005). Optimization of space-time block codes based on multidimensional super-set partitioning. *IEEE Signal Processing Letters*, 12(4), 317-320. [More Information]

Chen, Z., Vucetic, B., Yuan, J. (2005). Performance of the Alamouti Scheme with Imperfect Transmit Antenna Selection. *2005 IEEE 16th International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B., Tang, Y., Zhou, Z., Dohler, M. (2005). Practical Distributed Turbo Coding Through Soft Information Relaying. *2005 IEEE 16th International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Kannan, A., Mao, G., Vucetic, B. (2005). Simulated Annealing based Localization in Wireless Sensor Network. *30th Annual IEEE Conference on Local Computer Networks - LCN 2005*, Los Alamitos, California, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Tang, Y., Vucetic, B. (2005). Space-Time Trellis Codes

with Linear Precoding for Transmit Beamforming. *2005 IEEE 16th International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2005*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Santoso, A., Li, Y., Vucetic, B. (2005). The code design of the space-time trellis codes with dynamic transmit power allocation. *International Journal of Wireless Information Networks*, 12(4), 215-223. [More Information]

Karim, M., Li, Y., Vucetic, B. (2005). Weighted Layered Space-Time Code with Joint Iterative Detection and Decoding. *2005 International Conference on Wireless Networks, Communications and Mobile Computing - Wirellesscom 2005*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

2004

Li, Y., Vucetic, B., Zhang, Q. (2004). A Novel Channel Estimation Method For Very High-Speed Mobile Communications. *IEICE Transactions on Communications*, E87B (3), 764-767.

Chueh, J., Yang, H., Vucetic, B. (2004). An Iterative Adaptive Receiver Design Using The Multi-Layer RLS Algorithm with Applications To Layered Space-Time Coded Systems. *2004 IEEE 15th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2004)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Chueh, J., Li, Y., Vucetic, B. (2004). Asymptotic Analysis On Maximum-Likelihood Criterion For Multiuser Multiple-Input Multiple-Output Systems. *2004 Joint Conference of the 10th Asia-Pacific Conference on Communications and the 5th International Symposium on Multi-Dimensional Mobile Communications*, Beijing, China: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Santoso, A., Choi, J., Lim, C., Vucetic, B. (2004). Chip Level Decision Feedback Equaliser For CDMA Downlink With Space-Time Coding. *Electronics Letters*, 40(7), 437-439. [More Information]

Zhou, Z., Vucetic, B. (2004). Combined Space-Time Block Coding And Eigen-Space Tracking In Mimo Systems. *Electronics Letters*, 40(17), 1071-1073. [More Information]

Li, Y., Vucetic, B. (2004). Combining Space-Time Turbo Trellis Codes And Ideal Beamforming. *Electronics Letters*, 40(23), 1499-1500. [More Information]

Chueh, J., Li, Y., Vucetic, B. (2004). Design Criteria On Convergence Analysis Of LMS Algorithms for Layered Space-Time MIMO Systems. *GLOBECOM 04*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Zhou, Z., Vucetic, B. (2004). Design Of Adaptive Modulation Using Imperfect Csi In Mimo Systems. *Electronics Letters*, 40(17), 1073-1075. [More

Information]

Santoso, A., Li, Y., Vucetic, B. (2004). Dynamic Transmit Power Allocation For Space Time Trellis Coded Systems. *2004 IEEE 15th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2004)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Vucetic, B., Tang, Y., Li, Y., Doherty, M. (2004). Hybrid Space Time Trellis Codes For Transmit Antenna Selection. *IEEE Global Telecommunications Conference GLOBECOM 2004*, United States: (IEEE) Institute of Electrical and Electronics Engineers.

Chen, Z., Vucetic, B., Yuan, J., Zhou, Z. (2004). Performance Analysis Of Space-Time Trellis Codes With Transmit Antenna Selection In Rayleigh Fading Channels. *IEEE Wireless Communication and Networking Conference (WCNC 2004)*, Piscataway NJ: (IEEE) Institute of Electrical and Electronics Engineers.

Chen, Z., Yuan, J., Vucetic, B., Zhou, Z. (2004). Performance Of Alamouti Scheme With Transmit Antenna Selection. *2004 IEEE 15th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2004)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B., Tang, Y., Zhang, Q. (2004). Space-Time Trellis Codes With Linear Transformation For Fast Fading Channels. *IEEE Signal Processing Letters*, 11(11), 895-898. [More Information]

Hong, Y., Yuan, J., Chen, Z., Vucetic, B. (2004). Space-Time Turbo Trellis Codes For Two, Three, And Four Transmit Antennas. *IEEE Transactions on Vehicular Technology*, 53(2), 318-328. [More Information]

Dohler, M., Aghvami, A., Li, Y., Vucetic, B. (2004). Stage-By-Stage Detection Of Distributed Space-Time Block Encoded Relaying Networks. *The 15th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Piscataway NJ: (IEEE) Institute of Electrical and Electronics Engineers.

Yan, T., Vucetic, B. (2004). The FFT-Based Multiuser Detection For DS-CDMA Ultra-Wideband Communication Systems. *Joint UWBST & IWUWBS : 2004 International Workshop on Ultra Wideband Systems, 2004 : Joint with Conference on Ultra Wideband Systems and Technologies*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Li, Y., Vucetic, B. (2004). Tight Upper Bound For Bit Error Probability Of Combined Space-Time Block Codes And Ideal Beamforming. *Electronics Letters*, 40(22), 1434-1435. [More Information]

Santoso, A., Li, Y., Vucetic, B. (2004). Weighted Space-Time Trellis Codes. *Electronics Letters*, 40(4), 254-256. [More Information]

2003

Santoso, A., Choi, J., Lim, C., Vucetic, B. (2003). A chip level decision feedback equalizer for CDMA downlink channel with the Alamouti transmit diversity scheme. *The 14th IEEE International Symposium on Personal and Indoor Mobile Radio Conference*, Piscataway, NJ: (IEEE) Institute of Electrical and Electronics Engineers. [More Information]

Yuan, J., Chen, Z., Vucetic, B., Firmanto, W. (2003). Performance and design of space-time coding in fading channels. *IEEE Transactions on Communications*, 51(12), 1991-1996. [More Information]

Guo, H., Hu, X., Vucetic, B. (2003). Performance of a digital code tracking loop for DSSS systems in the presence of Doppler shift. *IEE Proceedings - Communications*, 150(3), 202-206.

Chen, Z., Yuan, J., Vucetic, B., Zhou, Z. (2003). Performance of Alamouti scheme with transmit antenna selection. *Electronics Letters*, 39(23), 1666-1668. [More Information]

Vucetic, B., Yuan, J. (2003). *Space-Time Coding*. England: Wiley.

Li, Y., Vucetic, B., Santoso, A., Chen, Z. (2003). Space-time trellis codes with adaptive weighting. *Electronics Letters*, 11(25), 1833-1834. [More Information]

Chen, Z., Vucetic, B., Yuan, J. (2003). Space-time trellis codes with transmit antenna selection. *Electronics Letters*, 39(11), 854-855. [More Information]

2002

Feng, W., Yuan, J., Vucetic, B. (2002). A code-matched interleaver design for turbo codes. *IEEE Transactions on Communications*, 50(6), 926-957. [More Information]

Yang, H., Hong, D., Kang, C., Vucetic, B. (2002). Constrained adaptive space-time diversity receivers for multiuser WCDMA systems. *ICC2002*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Lo, K., Marinkovic, S., Chen, Z., Vucetic, B. (2002). Performance comparison of layered space time codes. *2002 IEEE International Conference on Communications*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Yuan, J., Vucetic, B. (2002). Performance of parallel and serial concatenated codes on fading channels. *IEEE Transactions on Communications*, 50(10), 1600-1608. [More Information]

Ponnampalam, V., Vucetic, B. (2002). Soft decision decoding of reed-solomon codes. *IEEE Transactions on Communications*, 50(11), 1758-1768. [More Information]

Chen, Z., Vucetic, B., Yuan, J., Lo, K. (2002). Space-time trellis codes for 4-PSK with three and four transmit antennas in quasi-static flat fading channels. *IEEE Communications Letters*, 6(2), 67-69. [More Information]

Chen, Z., Vucetic, B., Yuan, J., Lo, K. (2002). Space-time trellis codes for 8-PSK with two, three and four transmit antennas in quasi-static flat fading channels. *Electronics Letters*, 38(10), 462-464. [More Information]

Chen, Z., Vucetic, B., Yuan, J., Lo, K. (2002). Space-time trellis codes with two, three and four transmit antennas in quasi-static flat fading channels. *2002 IEEE International Conference on Communications*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Firmanto, W., Vucetic, B., Yuan, J., Chen, Z. (2002). Space-time turbo trellis coded modulation for wireless data communications. *Eurasip Journal on Advances in Signal Processing*, 2002 (5), 459-470. [More Information]

Firmanto, W., Yuan, J., Vucetic, B. (2002). Turbo codes with transmit diversity: performance analysis and evaluation. *IEICE Transactions on Communications*, E85 - B(5), 859-865.

2001

Chen, Z., Vucetic, B., Yuan, J. (2001). An improved space-time trellis coded modulation scheme on slow rayleigh fading channels. *2001 IEEE International Conference on Communications Record*, : UNSW Australian Defence Force Academy.

Vucetic, B., Feng, W., Tan, M., Yuan, J. (2001). Design of cyclic shift interleavers for turbo codes. *Annals of Telecommunications*, 56(7-8), 384-393.

Firmanto, W., Chen, Z., Vucetic, B., Yuan, J. (2001). Design of space-time turbo trellis coded modulation for fading channels.

Chen, Z., Vucetic, B., Yuan, J. (2001). Improved space-time trellis coded modulation scheme on slow Rayleigh fading channels. *Electronics Letters*, 37, 440-441.

Firmanto, W., Lo, K., Vucetic, B., Yuan, J. (2001). Layered space-time coding: performance analysis and design criteria.

Vucetic, B., Ponnampalam, V., Vuckovic, J. (2001). Low complexity soft decision decoding algorithms for reed-solomon codes. *IEICE Transactions on Communications*, E84-B (3), 392-399.

Marinkovic, S., Vucetic, B., Ushirokawa, A. (2001). Space-time iterative and multistage receiver structures for CDMA mobile communication systems. *IEEE Journal on Selected Areas in Communications*, 19(8), 1594-1604.

Firmanto, W., Vucetic, B., Yuan, J. (2001). Space-time TCM with improved performance on fast fading channels. *IEEE Communications Letters*, 5(4), 154-156.

Firmanto, W., Vucetic, B., Yuan, J. (2001). Trellis coded x 2 MPSK modulation with transmit diversity. *Journal of Communications and Networks*, 3(3), 273-279.