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Invited Paper

- Frequency Selective Hybrid Precoding for Limited Feedback Millimeter Wave Systems *A. Alkhateeb and R. W. Heath, Jr.* 1801

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- Construction of Random Input-Output Codes With Moderate Block Lengths *E. Yaakobi and R. Motwani* 1819

Cognitive Radio Systems

- How to Increase Energy Efficiency in Cognitive Radio Networks *M. Robat Mili, L. Musavian, K. A. Hamdi, and F. Marvasti* 1829

Cooperative/Relay Systems

- Link-State Optimized Decode-Forward Transmission for Two-Way Relaying *L. Pinals and M. Vu* 1844

- Secure Green Communication via Untrusted Two-Way Relaying: A Physical Layer Approach *D. Wang, B. Bai, W. Chen, and Z. Han* 1861

- Relay-Based Spectrum Sharing With Secondary Users Powered by Wireless Energy Harvesting *C. Zhai, J. Liu, and L. Zheng* 1875

- Adaptive Buffer-Aided Distributed Space-Time Coding for Cooperative Wireless Networks *T. Peng and R. C. de Lamare* 1888

- On Outage Probability for Two-Way Relay Networks With Stochastic Energy Harvesting *W. Li, M.-L. Ku, Y. Chen, and K. J. Ray Liu* 1901

- The Gauss-Poisson Process for Wireless Networks and the Benefits of Cooperation *A. Guo, Y. Zhong, W. Zhang, and M. Haenggi* 1916

MIMO

- Spectral-Efficiency Analysis of Massive MIMO Systems in Centralized and Distributed Schemes *G. N. Kamga, M. Xia, and S. Aïssa* 1930

- Effect of Antenna Configuration on MIMO-Based Access Points in a Short Tunnel With Infrastructure *A. E. Forooshani, C. Y. T. Lee, and D. G. Michelson* 1942

- A Comparison of MIMO Techniques in Downlink Millimeter Wave Cellular Networks With Hybrid Beamforming *M. N. Kulkarni, A. Ghosh, and J. G. Andrews* 1952

- On the Required Number of Antennas in a Point-to-Point Large-but-Finite MIMO System: Outage-Limited Scenario *B. Makki, T. Svensson, T. Eriksson, and M.-S. Alouini* 1968

- Green MU-MIMO/SIMO Switching for Heterogeneous Delay-Aware Services With Constellation Optimization *K. Wang, W. Chen, J. Li, and B. Vucetic* 1984

- A High-Performance Complexity Reduced Behavioral Model and Digital Predistorter for MIMO Systems With Crosstalk *A. Abdelhafiz, L. Behjat, F. M. Ghannouchi, M. Helaoui, and O. Hammi* 1996

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