Editorial

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This issue of the journal includes best papers from PIM-RC'2013 (the 24th IEEE Symposium on Personal, Indoor, Mobile and Radio Communications) held in London, UK, September 2013. A selection was done among the top papers of each of the tracks (Fundamentals and PHY, MAC and Cross-Layer Design, Mobile and Wireless Networks, Services, Applications and Business). Afterwards, authors were invited to submit extended versions of their papers; some of them did, these extended versions being reviewed again, and revisions were performed. In the end, 3 papers are being part of this Special Issue dedicated to PIM-RC'2013, which we entitled “Stretching the Boundaries in Wireless Communications”. Unfortunately, due to some delays, only 2 papers are being included in this issue, the remaining one being postponed to the next issue.

One of the papers, entitled “Autonomous Schemes for Inter-Cell Interference Coordination in the Downlink of LTE Systems”, and authored by H. S. Hamza, S. Khalifa and K. Elsayed (Cairo University, Giza, Egypt), proposes an autonomous self-adaptive scheme for radio resource

management and interference coordination, extending it to become power-aware in order to optimise and reduce the transmission power of LTE's base stations. The other paper, entitled “The Cellular Relay Carpet: Distributed Cooperation with Ubiquitous Relay”, and authored by R.T.L. Rolny, T. Rueegg, M. Kuhn and A. Wittneben (ETH - Swiss Federal Institute of Technology, Zurich, Switzerland), investigates different types of relays as well as different relaying strategies for a relay carpet and compares them with respect to complexity, required channel state information, and performance in the interference-limited environment of dense cellular networks. Globally, these two papers address simultaneously “old” and “new” topics in the area of mobile and wireless communications, i.e., interference, coordination, cooperation, and relaying; this shows that progress in this area continues to be done by a proper mixture of “old” and “new” techniques, leading to further developments in two of the critical areas in these systems, i.e., coverage and capacity.

Enjoy the reading.

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