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Energy-Efficient Wireless Communication Systems

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Message from the Guest Editors

Wireless telecommunication systems are stepping through significant evolutionary modifications, driven as always by application needs which constantly demand higher bitrates. One key factor is now deserving particular attention: energy saving. More than ever, energy efficiency specifications and figures are in the spotlight of the processes determining the evolution of telecom systems, in line with the worldwide social and economic awareness towards energy. Cellular networks are fast moving toward solutions where energy beams are directed towards handset units, instead of widespread energy in all directions; power amplifiers are driven into new architectures and design techniques that aim to reduce the dissipation loss while maintaining the desired delivered power; signal processing techniques are also evolving to permit energy-efficient transmitter operation within the specifications; sensor networks foresee the deployment of very-low-power transmitter/receiver units, supporting an ever-growing range of applications; and in many other fields of wireless communications we see a trend driven by energy saving.

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Special Issue

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Message from the Editor-in-Chief

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