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Engineering : Communications Engineering, Networks

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Adaptive Multi-Standard RF Front-Ends

- Problems and solutions in the design of multi-standard RF front-ends on the system, circuit and implementation level have been addressed
- Problems, solutions and cost-effectiveness related to implementation of adaptivity in RF front-ends have been addressed
- Problems and solutions related to operation of CMOS electronic circuits at low supply voltages have been addressed
- Problems and solutions for optimising RF electronic circuits have been addressed

In this information era people are living in a society in which processing, flow and exchange of information are vital for their existence. Two major issues in such society, which are related to flow and exchange of information, are connectivity and mobility. On one hand, computers and Internet provide connectivity and allow communication as well as fast access to large amounts of information. On the other hand, wireless technologies bring mobility. People can move and still be able to communicate and have access to various kind of information. Therefore, the functioning of an information society is unthinkable without the use of computers, Internet and wireless technologies. The expectations are that in the future they will merge into a unique system for communication, access to information as well as their exchange and processing. The era of wireless communications started in 1901, when Guglielmo Marconi successfully transmitted radio signals across the Atlantic Ocean. From that moment up to now wireless communications experienced explosive growth and became the fastest growing field in the engineering world. Pushed by customer requirements, new wireless technologies have been emerging very fast. Each new generation of wireless technologies have brought new features and more complexity. Pushed by market forces to reduce costs, the semiconductor industry has provided new technologies for solid-state circuits implementation. Fortunately at the same time with the cost reduction, performance of new technologies has been improving.

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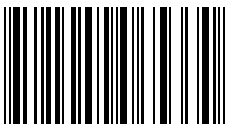
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