



Call for Papers for a Special Issue on
RF Planning Tools for Wide and Local Area Networks
IEEE Vehicular Technology Magazine

RF planning tools have played an important role in the deployment of wide-area land mobile and cellular radio networks for over three decades. Increasingly, they are also finding application in local-area microcell and indoor environments. In recent years, the development and evolution of RF planning tools has been driven by three main factors: (1) the demands of new wireless technologies such as Wireless LAN, 3G/B3G, and Fixed Wireless, (2) significant improvements in coverage prediction models, optimization tools, and related enabling technologies, and (3) the need to use spectrum more efficiently and optimize network performance. As coverage prediction methods have become more sophisticated, terrain and building data have become more accurate and detailed, optimization algorithms have become more effective, user interfaces have become more intuitive, and standards for the exchange of data have evolved, the capabilities of RF planning tools have increased dramatically.

Topics

The papers in this Special Issue of IEEE Vehicular Technology Magazine will focus on the factors and technologies that are driving the development of next-generation RF planning tools for both wide and local area networks. We solicit papers covering a variety of topics that include, but not limited to, the following subjects:

- Coverage prediction methods (formulation, validation, performance)
- Terrain and building data (sources of and requirements for)
- System simulation (statistical, analytical, dynamic)
- System optimization (channel assignment, antenna configuration, site location)
- Technology-specific planning and optimization
- User interfaces and data exchange (GIS, workflows, architecture)

Papers should be tutorial in nature and focus on issues and developments that will influence the development of next generation RF planning tools. Authors must follow the IEEE Vehicular Technology Magazine guidelines regarding the manuscript format. For further information, please refer to IEEE Vehicular Technology Magazine website at <http://www.ieeevtc.org/vtmagazine/>. All papers should be submitted by email attachment (in PDF format) to the Editor.

Schedule

Manuscript Submission Due: 1 July 2006
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Final Manuscript Due: 1 September 2006
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Editor

Prof. David G. Michelson, PEng
University of British Columbia
Vancouver, BC, Canada
davem@ece.ubc.ca

Guest Editor

Robert D. Weller, P.E.
Hammett and Edison, Inc.
San Francisco, CA, USA
rweller@h-e.com

Guest Editor

Dr. Yann Le Helloco
Ericsson TEMS
Ottawa, ON, Canada
yann.lehelloco@ericsson.com