

International Journal of

MOBILE NETWORK DESIGN AND INNOVATION

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Scope of the Journal

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IJMNDI addresses state-of-the-art computerisation for the deployment and operation of current and future wireless networks. Intelligent and automatic computer software has become the critical factor for obtaining high performance network solutions that meet the objectives of both the network subscriber and operator. Characteristically, high performance, innovative techniques are required to address computationally-intensive radio engineering planning problems while providing optimised solutions and knowledge which will enhance the deployment and operation of expensive wireless resources. This requires contributions from several disciplines.

Topics covered include:

- *Wide Area Planning Problems, e.g.:*
 - Cellular planning for GSM, UMTS, WCDMA, cmda2000, BFWA, PMR, wifi, 802.11
 - Transmission infrastructure, site location, channel assignment/modelling
 - Frequency hop set design, international spectrum management, netted radar placement
 - Spectrum licensing, auctions/trading, subscriber service pricing, revenue generation
 - Application of codes, radio resource management/allocation
 - Bluetooth scatternet formation, point to point link topology, propagation modelling, ray tracing
- *Key performance indicators, surrogates, QoS measurement*
- *Traffic modelling, subscriber location issues, billing, routing*
- *Software Engineering Aspects, including:*
 - Effective source code design, software system design, requirements analysis
 - Fast data structures, object oriented design, HCI, user interface development
 - High performance computing, parallel processing
 - Geographical information/graphics/visualisation/simulation environments, tool kits
 - Automation/intelligence methodologies



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