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Engineering : Communications Engineering, Networks

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Radio Monitoring

Automated Systems and Their Components

- Presents an architecture of client-server systems for radio monitoring
- Provides software and engineering infrastructure of monitoring systems
- Gives instructions to search and localization of unauthorized emission sources
- Displays the mathematical methods, digital algorithms and technical means for identification and localization of radio signal sources

This book discusses the architecture of modern automated systems for spectrum monitoring including automation components: technical means for spectrum monitoring, special software and engineering infrastructure. The problems of automated system development for search and localization of unauthorized radio emission sources in open localities, mathematical methods and algorithms for modulation of parameter measurements for wireless communication as well as issues of identification and localization of radio emission sources are considered. Constructive solutions and modern technical means for radio monitoring and their application are given. Numerous examples are described for the implementation of automated systems, digital radio receivers and radio direction-finders, analyzers of parameters for GSM, CDMA, LTE, DVB-T/T2, Wi-Fi, DMR, P25, TETRA and DECT signals. Practical implementations of the described methods are presented in applied software packages and in radio monitoring equipment.

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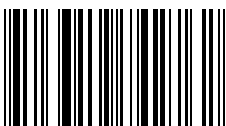
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