

The monIT Project: Electromagnetic Radiation Exposure Assessment in Mobile Communications

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Abstract

The monIT project provides public information on population exposure to electromagnetic fields (EMF) from mobile communication systems in Portugal. The monitoring system is based on a network of autonomous remote probing stations, and also on an extensive EMF sounding program, both carried out in public areas across the country. Measured results are automatically uploaded to a Web site for public dissemination (<http://www.bui.pt/monit>), which also includes other relevant information about EMF for the general public. This paper describes the project's structure, the automatic monitoring system, the project's activities, and, finally, it presents a brief analysis of the measured results.

Keywords: Biological effects of electromagnetic radiation; electromagnetic fields; risk analysis; land mobile radio cellular systems; land mobile radio; mobile communication; monitoring

1. Introduction

The monIT Project is being developed within the Instituto de Telecomunicações (IT) Lisbon site at the Instituto Superior Técnico (IST, Technical University of Lisbon, Portugal). This is a nonprofit scientific research and development institute, with activities in the area of telecommunications.

The monIT Project started in 2003, in the context of an urgent general public concern about possible health hazards caused by radiation from mobile-communication-systems antennas. Most of the time this was rooted in misconceptions about the aspects involved, aggravated by the lack of trusted sources of information capable of presenting needed information in a simple, understandable way.

As objective evaluation of the risk requires the quantification of electromagnetic field (EMF) levels to which the population is exposed, systematic information of this type was not openly available in Portugal. This was one of the gaps that the monIT Project filled in, by providing results from extensive measurement campaigns performed in public places, near base stations of mobile communication systems (i.e., GSM and UMTS, without restriction

on the type of cell), over the country for a period that currently amounts to more than three years. The project also produces and disseminates information written in common language to help the clarification of public opinion about relevant aspects of exposure to EMF originated by mobile-communication systems, from an engineering perspective. The dissemination of this information is made through the project's Web site, <http://www.bui.pt/monit>, which is dynamically updated with data from remote monitoring stations and from manual measurement campaigns. The project team is also involved in direct public-information actions, and in basic context for health personnel about the engineering perspective of EMF in mobile communications.

The monIT Project is sponsored by the three mobile operators that are licensed in Portugal (Optimus, TMN, and Vodafone Portugal). However, by contract the sponsors have no intervention with or any form of authority over the project's management, its activities, or the published results.

This paper is organized as follows: The next section presents a general overview of the monIT Project, and the subsequent section is dedicated to the description of the measurement system and protocol. This is followed by a discussion of the measurement results and, finally, some conclusions are drawn.

Safety Assessment Of Mobile Communications

**Pedro M. Arezes, João Santos
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Safety Assessment Of Mobile Communications:

Probabilistic Safety Assessment and Management Cornelia Spitzer,Ulrich Schmocker,Vinh N. Dang,2014-01-04
Probabilistic Safety Assessment and Management is a collection of papers presented at the PSAM 7 ESREL 04 Conference in June 2004 The joint Conference provided a forum for the presentation of the latest developments in methodology and application of probabilistic and reliability methods in various industries The aim of these applications is the optimisation of technological systems and processes from the perspective of a risk informed safety management while also taking economic and environmental aspects into account Bringing together leading experts from all over the world the papers reflect a wide variety of disciplines such as principles and theory of reliability and risk analysis systems modelling and simulation consequence assessment human and organisational factors structural reliability methods software reliability and safety insights and lessons from risk studies and management decision making *Mobile Communications and Public Health*
Marko Markov,2018-06-13 This book represents a comprehensive overview of the distribution of the various forms of mobile communications devices with increasing variations and intensities that constitute a serious hazard to both the biosphere and mankind Contributors stress the lack of controls over mobile communication signal sources as well as the absence of monitoring the health of individuals exposed to microwave radiation The work also entails a review of the engineering behind mobile communication technology including a summary of basic scientific evidence of the effects of biological exposure to microwaves and unique coverage on potential hazards of mobile communication for children Marko S Markov has been professor and chairman of the Department of Biophysics and Radiobiology of Sofi University for 22 years With over 45 years of basic science research experience and over 40 years in the clinical application of electromagnetic fields he is recognized as one of the world s best experts in the subject His list of publications includes 196 papers and 18 books Presents an overview of what modern science knows about mobile communications signals Details the latest research on potential hazards related to uncontrolled use of mobile devices Provides information related to children s organisms not developed biologically prior to exposure to microwave signals Offers methods of control of the house and work environment Explores the link between science and electromagnetics hazards **Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; ... ,** **Advances in Safety Management and Human Factors** Pedro Miguel Ferreira Martins Arezes,2018-06-25
This book discusses the latest findings on ensuring employees safety health and welfare at work It combines a range of disciplines e g work physiology health informatics safety engineering workplace design injury prevention and occupational psychology and presents new strategies for safety management including accident prevention methods such as performance testing and participatory ergonomics The book which is based on the AHFE 2018 International Conference on Safety Management and Human Factors held on July 21 25 2018 in Orlando Florida USA provides readers including decision makers professional ergonomists and program managers in government and public authorities with a timely snapshot of the state of

the art in the field of safety health and welfare management It also addresses agencies such as the Occupational Safety and Health Administration OSHA and the National Institute for Occupational Safety and Health NIOSH as well as other professionals dealing with occupational safety and health Advances in Safety, Reliability and Risk Management Christophe Berenguer,Antoine Grall,Carlos Guedes Soares,2011-08-31 Covering a wide range of topics on safety reliability and risk management the present publication will be of interest to academics and professionals working in a wide range of scientific industrial and governmental sectors including Aeronautics and Aerospace Chemical and Process Industry Civil Engineering Critical Infrastructures Energy Information Technology and Telecommunications Land Transportation Manufacturing Maritime Transportation Mechanical Engineering Natural Hazards Nuclear Industry Offshore Industry Policy Making and Public Planning *Occupational Safety and Hygiene IV* Pedro M. Arezes,João Santos Baptista,Monica P. Barroso,Paula Carneiro,Patrício Cordeiro,Nelson Costa,Rui B. Melo,A. Sergio Miguel,Gonçalo Perestrelo,2016-04-05 Occupational Safety and Hygiene IV covers a wide variety of topics including but not limited to Occupational Safety Risk Assessment Ergonomics Management Systems Physical Environment Construction Safety and Human FactorsThis compilation of papers in the domain of occupational safety and hygiene is mainly based on research works carried

Security and Risk Assessment for Facility and Event Managers Stacey Hall,James M. McGee,Walter E. Cooper,2022-10-17 Part of managing a facility or event of any kind is providing a safe experience for the patrons Managers at all levels must educate themselves and prepare their organizations to confront potential threats ranging from terrorism and mass shootings to natural disasters and cybercrime Security and Risk Assessment for Facility and Event Managers With HKPropel Access provides security frameworks that apply to all types of facilities and events and it will help current and future facility and event managers plan for and respond to threats The purpose of this text is to provide foundational security management knowledge to help managers safeguard facilities and events whether they are mega sport events or local community gatherings Presenting an overview of security principles and government policies the text introduces an all hazard approach to considering the types and severity of threats that could occur as well as the potential consequences likelihood and frequency of occurrence Readers will be walked through a risk assessment framework that will help them plan for threats develop countermeasures and response strategies and implement training programs to prepare staff in case of an unfortunate occurrence Security and Risk Assessment for Facility and Event Managers addresses traditional threats as well as evolving modern day threats such as cybercrime use of drones and CBRNE chemical biological radiological nuclear and explosives incidents It also offers readers insightful information on the intricacies of managing security in a variety of spaces including school and university multiuse facilities stadiums and arenas recreation and fitness facilities hotels and casinos religious institutions and special events Practical elements are incorporated into the text to help both students and professionals grasp real world applications Facility Spotlight sidebars feature examples of sport facilities that illustrate

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An Analysis of Regulatory Frameworks for Wireless Communications, Societal Concerns and Risk Haim Mazar, 2009 This thesis analyses how and why culture and geography influence the allocation and licensing of the radio frequency RF spectrum in different nations Based on a broad comparative study of 235 countries an inter disciplinary approach is used to explore regulatory frameworks and attitudes toward risk In addition detailed case studies of the UK France the US and Ecuador provide deeper insights into the main contrasting regulatory styles Three alternative sociological theories are used to analyse and explain the results for both the in depth and broad brush studies The Cultural Theory of Mary Douglas and co workers is first used to categorise countries in terms of perceptual filters The empirical findings indicate some countries to be apparently exceptional in their behaviour The theory of Bounded Rationality is used to investigate and explain these apparent irrationalities Finally Rational Field Theory shows how beliefs and values guide administrations in their RF regulation A number of key factors are found to dominate and patterns emerge The European RF harmonisation is unique Following European unification wireless regulation is divided into two major camps the EU and the US which differ in their risk concerns approach to top down mandated standards allocation of RF spectrum to licence exempt bands and type approval process The adoption of 3G cellular UMTS versus CDMA2000 and digital TV standards DVB T ATSC ISDB T around the world reflects geopolitical and colonial influence The language of a country is a significant indicator of its analogue TV standard SECAM PAL NTSC Interestingly the longitude of a country to a fair extent defines RF allocation Africa and West Asia follow Europe whereas the Americas approximate the US RF regulation and risk tolerability differ between tropical and non tropical climates The collectivised centralised versus the individualised market based rationalities result in different regulatory frameworks and contrasting societal and risk concerns The success of the top down European GSM and the bottom up Wi Fi standards reveal how the central planning and market based approaches have thrived Attitudes to RF human hazards and spurious emissions levels reveal that the US Canada and Japan are more tolerant of these radiation risks than Europe

Australia Canada New Zealand UK and USA encourage technological innovation A practical benefit of this study is that it will give regulators more freedom to choose a rational RF licensing protocol by better understanding the possibly self imposed boundaries of cultural and geographical factors which are currently shaping allocation Academically there is utility in undertaking a cultural and geographic analysis of a topic that is mostly the domain of engineering economic and legal analysts Psychological Perspectives on Risk and Risk Analysis Martina Raue,Eva Lerner,Bernhard Streicher,2018-09-18 This authoritative collection goes beyond economic statistics and probability data to offer a robust psychological understanding of risk perception and risk taking behavior Expert contributors examine various risk domains in life and pinpoint cognitive emotional and personality factors contributing to individual differences in risk taking as well as the many nuances social demographics e g culture gender bring to risk decisions Coverage takes competing theories and studies into account to identify mechanisms involved in processing and acting on uncertainty And implications and applications are demonstrated in varied fields from updated risk models for the insurance sector to improved risk communication in health services to considering risk perception in policy decisions A sampling of the topics Personality and risk beyond daredevils risk taking from a temperament perspective Cognitive developmental and neurobiological aspects of risk judgments The group effect social influences on risk identification analysis and decision making Cognitive architectures as a scaffolding for risky choice models Improving understanding of health relevant numerical information Risk culture as a framework for improving competence in risk management Psychological Perspectives on Risk and Risk Analysis will be of great interest to researchers in and outside of psychology including decision making experts and behavioral economists Additionally this volume will appeal to practitioners who often have to make risky decisions such as managers and physicians

Proceedings of the 6th International Conference on Electrical Engineering and Information Technologies for Rail Transportation (EITRT) 2023 Jianwei Yang,Dechen Yao,Limin Jia,Yong Qin,Zhigang Liu,Lijun Diao,2024-01-08 This book reflects the latest research trends methods and experimental results in the field of electrical and information technologies for rail transportation which covers abundant state of the art research theories and ideas As a vital field of research that is highly relevant to current developments in a number of technological domains the subjects it covered include intelligent computing information processing communication technology automatic control etc The objective of the proceedings is to provide a major interdisciplinary forum for researchers engineers academicians and industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies Engineers and researchers in academia industry and government will also explore an insightful view of the solutions that combine ideas from multiple disciplines in this field The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation and electrical and information technologies **Remote Sensing '96: Integrated Applications for Risk Assessment and Disaster Prevention for the Mediterranean A.**

Spiteri,1997-01-01 This collection of symposium papers covers such topics as environmental change desertification rainfall erosion and geomorphological hazards and land degradation and marine pollution Other presentations dealt with practical applications of remote sensing and geographic information systems Perspectives on Risk, Assessment and Management Paradigms Ali G. Hessami,2019-04-17 This book explores various paradigms of risk domain specific interpretation and application requirements and practices driven by mission and safety critical to business and service entities The chapters fall into four categories to guide the readers with a specific focus on gaining insight into discipline specific case studies and state of practice In an increasingly intertwined global community understanding evaluating and addressing risks and rewards will pave the way for a more transparent and objective approach to benefiting from the promises of advanced technologies while maintaining awareness and control over hazards and risks This book is conceived to inform decision makers and practitioners of best practices across many disciplines and sectors while encouraging innovation towards a holistic approach to risk in their areas of professional practice *Internet of Things, Smart Spaces, and Next Generation Networks and Systems* Olga Galinina,Sergey Balandin,Yevgeni Koucheryavy,2016-09-19 This book constitutes the joint refereed proceedings of the 16th International Conference on Next Generation Wired Wireless Advanced Networks and Systems NEW2AN 2016 and the 9th Conference on Internet of Things and Smart Spaces ruSMART 2016 held in St Petersburg Russia in September 2016 The 69 revised full papers were carefully reviewed and selected from 204 submissions The 12 papers selected for ruSMART are organized in topical sections on new generation of smart services smart services serving telecommunication networks role of context for smart services and smart services in automotive industry The 57 papers from NEW2AN deal with the following topics cooperative communications wireless networks wireless sensor networks security issues IoT and industrial IoT NoC and positioning ITS network issues SDN satellite communications signals and circuits advanced materials and their properties and economics and business Mobile Media Practices, Presence and Politics Kathleen M. Cumiskey,Larissa Hjorth,2013-08-29 As an example of convergence the mobile phone especially in the form of smartphone is now ushering in new promises of seamlessness between engagement with technology and everyday common experiences This seamlessness is not only about how one transitions between the worlds of the device and the physical environment but it also captures the transition and convergences between devices as well i e laptop to smartphone smartphone to tablet This volume argues however that these transitions are far from seamless We see divisions between online and offline virtual and actual here and there taking on different cartographies emergent forms of seams It is these seams that this volume acknowledges challenges and explores socially culturally technologically and historically as we move to a deeper understanding of the role and impact of mobile communication s saturation throughout the world High Frequency Electromagnetic Dosimetry David A. Sánchez-Hernández,2009 Along with the growth of RF and microwave technology applications there is a mounting concern about the possible adverse effects over human health from electromagnetic radiation Addressing this issue and putting it into

perspective this groundbreaking resource provides critical details on the latest advances in high frequency electromagnetic dosimetry The book takes a scientific and rigorous engineering point of view helping you achieve highly accurate exposure assessments

Mobile Satellite Communications Madhavendra Richharia, 2014-02-27 Demand for Mobile Satellite Service MSS is on the increase with a huge surge of interest in mobile communications in recent years and high paced advancements in the supporting system architectures devices and applications This thoroughly revised and updated book provides a comprehensive guide to the MSS technologies and emerging trends It takes a system level approach giving in depth treatment of technical and business related issues The author a leading professional in the area draws on his extensive experience in industry and research to provide the reader with a sound and informed understanding of the technology Mobile Satellite Communications includes introductory material for the reader new to the field in addition to exploring prevalent system concepts architecture practices and trends for the more experienced An in depth review of scientific principles merged with business models and regulatory considerations presents a balanced perspective of commercial mobile satellite systems This book will be of interest to practicing engineers in mobile satellite communications and mobile broadcasting research and development professionals working in these areas mobile satellite service providers and operators Academics and students studying satellite systems technology specialists in other classes of satellite systems technical and marketing managers strategists and planners of telecommunication systems individuals interested in mobile communications satellite and telecommunications broadcasting technology will also find this book insightful Key Features Comprehensive treatment of mobile satellite communications topics including radio link aspects satellite constellations architectural and operational aspects as well as business planning models MSS radio interface standards spectrum forecast methodologies and system examples Addresses related themes such as mobile broadcasting mobile VSATs search and rescue and navigation systems Introduces emerging technologies such as mobile broadband television broadcasting to handheld units advanced capacity enhancement techniques hybrid system architecture concepts including a rich sample of research topics such as multiple input multiple output satellite based ad hoc networks and highlights initiatives in the use of Q V frequency bands Includes revision questions at the end of each chapter An accompanying website for interaction www.satellitesandyou.com

Active Safety and the Mobility Industry Delphi Corp., 2011-04-11 Safety is a key element in new vehicle design and active safety together with driver distraction prevention has become one of the most talked about issues in the mobility industry This book features 20 SAE technical papers originally published in 2009 and 2010 which showcase how the mobility industry is considering all aspects of safety in designing and producing safer vehicles These papers were selected by SAE International s 2010 President Dr Andrew Brown Jr Executive Director and Chief Technologist for Delphi Corporation The contents of this book explore a variety of safety issues in the areas of market and consumer preferences driver assistance and modeling active safety system crash sensing and sensor fusion communications and road safety The publication also includes a number

of articles authored by renowned experts in the field of active safety This book is the second in the trilogy from SAE on Safe Green and Connected vehicles in the mobility industry edited by Dr Andrew Brown Jr The other two books in this trilogy are Green Technologies and the Mobility Industry Connectivity and the Mobility Industry Buy a Combination of Books and Save This trilogy can be purchased in a combination of two books as follows Green Technologies and Active Safety in the Mobility Industry Green Technologies and Connectivity in the Mobility Industry Active Safety and Connectivity in the Mobility Industry Buy the Entire 3 Book Set and Save the Most Green Safe Connected The Future of Mobility GB,GBT,GB/T Chinese Standard(English-translated version)-Catalog001- Dr. Meng Yongye CODEOFCHINA,2018-05-04 All English translated Chinese codes are available at www.codeofchina.com

Trustworthy Computing and Services Lu Yueming,Wu Xu,Zhang Xi,2015-06-19 This book constitutes the refereed proceedings of the International Standard Conference on Trustworthy Computing and Services ISCTCS 2014 held in Beijing China in November 2014 The 51 revised full papers presented were carefully reviewed and selected from 279 submissions The topics covered are architecture for trusted computing systems trusted computing platform trusted system building network and protocol security mobile network security network survivability other critical theories and standard systems credible assessment credible measurement and metrics trusted systems trusted networks trusted mobile networks trusted routing trusted software trusted operating systems trusted storage fault tolerant computing and other key technologies trusted e commerce and e government trusted logistics trusted internet of things trusted cloud and other trusted services and applications

Fostering Innovation in Community and Institutional Corrections Brian A. Jackson,2015-01-06 The U S corrections enterprise is challenged by a variety of demographic societal and fiscal trends and this report seeks to frame an innovation agenda by identifying and prioritizing potential improvements in technology policy and practice

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