

# The monIT Project: Electromagnetic Radiation Exposure Assessment in Mobile Communications

*Carla Oliveira<sup>1</sup>, Daniel Sebastião<sup>1</sup>, Gonçalo Carpinteiro<sup>1</sup>, Luis M. Correia<sup>1</sup>,  
Carlos A. Fernandes<sup>1</sup>, Afonso Serralha<sup>2</sup>, and Nuno Marques<sup>2</sup>*

<sup>1</sup>Instituto de Telecomunicações/Instituto Superior Técnico, Technical University of Lisbon, Lisbon, Portugal  
E-mail: {carla.oliveira, daniel.sebastiao, goncalo.carpinteiro, luis.correia, carlos.fernandes} @bui.pt

<sup>2</sup>Magneta, Lisbon, Portugal

Telephones: +351-215416476; Fax: +351-215416472; E-mail: {afonso.serralha, nuno.marques} @magneta-tech.com

Web site: <http://www.bui.pt/monit>

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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

**Jianwei Yang, Dechen Yao, Limin  
Jia, Yong Qin, Zhigang Liu, Lijun Diao**

## **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, 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

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

**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 Factors This compilation of papers in the domain of occupational safety and hygiene is mainly based on research works carried

*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      **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      **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      *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 specific concepts Case studies application questions and activities encourage readers to think critically about the content Related online resources available via HKPropel include nearly 50 sample policies plans and checklists covering issues such as alcohol and fan conduct policies risk management and evacuation plans bomb threat checklists and active shooter protocols The forms are downloadable and may be customized to aid in planning for each facility and event With proper planning and preparation facility and event managers can prioritize the safety of their participants and spectators and mitigate potential threats Security and Risk Assessment for Facility and Event Managers will be a critical component in establishing and implementing security protocols that help protect from terrorism natural disasters and other potential encounters Higher education instructors For maximum flexibility in meeting the needs of facility or event management courses instructors may adopt individual chapters or sections of this book through the Human Kinetics custom ebook program Note A code for accessing HKPropel is not included with this ebook but may be purchased separately

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

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 *Virtual Reality, Augmented Reality and Artificial Intelligence in Special Education* Ange

Anderson, 2019-03-20 New technologies and ongoing developments in the fields of Virtual reality augmented reality and artificial intelligence are changing the ways in which we facilitate learning Recognising the positive role these technologies can play in the learning and progress of students assessed as having special educational needs this practical guide explains the characteristics benefits risks and potential applications of new technologies in the classroom An innovative and timely resource Virtual Reality Augmented Reality and Artificial Intelligence in Special Education offers a background in the evidence based theory and practice of using new technologies in an educational context Accessible and free of complex jargon chapters provide information on the development intended uses and most current terminology used in relation to technologies and explains how modern equipment approaches and possibilities can be used to promote improved communication skills independent learning and heightened self esteem amongst students diagnosed with SEND Offering a wealth of practical tips downloadable resources and ideas for engaging with technology in the classroom the text will support teachers to ensure that students can benefit from exciting technological advances and learn to use them appropriately Demystifying a complex and varied field this practical resource will inspire and inform teachers SENCOs and practitioners working with children and students with SEND as they harness the use of technology in the classroom 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 **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](http://www.codeofchina.com) **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 **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



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Kamarulzaman, Farrah Dina Yusop, Noorhidawati Abdullah, Azian Madun, Kwan-Hoong Ng, 2020-01-01 This book reports on the investigation of the public's perception of Radio Frequency Electromagnetic Field RF EMF radiation effects on health and well being in Malaysia It elaborates on how understanding the impact of perceived risk is essential in order to investigate the explanatory value and effectiveness of interventions influencing these beliefs The book expands on the knowledge and understanding of different risk perception related to radiation in order to explain the gap in literature regarding the relationship between risk perceptions that lead to public behaviors In doing so the book presents empirical findings of a national study that unveils two key factors affecting public risk perceptions psycho graphic and personal factors It offers a more collective and cultural understanding of public perceptions on radiation risks via a systematic mixed method research approach Research in the book also show that while the radiation risk is recognizable and unavoidable the relevant stakeholders should be more proactive and committed to communicate and rectify the perception of radiation The book thus serves as a valuable source of reference to understand the debate and to invite more participatory dialogues on radiation risk perceptions among public **Security Strategies in Web Applications and Social Networking** Llc Jones & Bartlett

Learning, vLab Solutions Staff, Marcus Goncalves, Mike Harwood, Matthew Pemble, 2012-01-12 Networking Security

*International Reference Guide to Space Launch Systems* Steven J. Isakowitz, Joseph P. Hopkins, Joshua B. Hopkins, 1999 This best selling reference guide contains the most reliable and up to date material on launch programs in Brazil China Europe India Israel Japan Russia Ukraine and the United States Packed with illustrations and figures the third edition has been extensively updated and expanded and offers a quick and easy data retrieval source for policymakers planners engineers launch buyers and students

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