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Mental Maps Describing
Thermal Comfort in the



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Urban Environment Springer systems. In light of ongoing cities and nature, others
This volume examines the developments in sustainable clearly have an empirical
applicability of nature- urban development, the goal focus. Therefore, this
based solutions in is a paradigm shift towards volume provides a rich body
ecological restoration a landscape that restores of work and acts as a
practice and in and rehabilitates urban starting point for further
contemporary landscape ecosystems. The ten studies on restoration of
architecture by bringing contributions to this book ecosystems and integrative
together ecology and examine a wide range of policies such as the United
architecture in the built successful cases of Nations Sustainable
environment. Green designing healthier, greener Development Goals.
infrastructure is used to and more resilient *Creating a Lifestyle*
address urban challenges landscapes in different *Medicine Center Taylor*
such as climate change geographical contexts, from & Francis
adaptation, disaster risk the United States of Offering readers
reduction, and stormwater America and Brazil, through essential insights
management. In addition, various European regions, into the relationship
thermal comfort nature- to Singapore and China. between ancient
based solutions reintroduce buildings, their
critical connections original and current
between natural and urban interconnections between indoor microclimates,

this book details how the (generally) virtuous relationship between buildings and their typical microclimate changed due to the introduction of new heating, ventilation, and air conditioning (HVAC) systems in historic buildings. The new approach to the study of their Historic Indoor Microclimate (HIM) put forward in this book is an essential component to monitoring and evaluating building and artefact conservation.

Highlighting the advantages of adopting an indoor microclimatic approach to the preservation of existing historic materials by studying the original conditions of the buildings, the book proposes a new methodology linking the preservation/restoration of the historic indoor microclimate with diachronic analysis for the optimal preservation of historic buildings. Further, it discusses a number of frequently overlooked topics, such

as the simple and well-coordinated opening and closing of windows (an example extracted from a real case study). In turn, the authors elaborate the concept of an Historic Indoor Microclimate (HIM) based on "Original Indoor Microclimate" (OIM), which proves useful in identifying the optimal conditions for preserving the materials that make up historic buildings. The book's main goal is to draw attention to the advantages of an indoor microclimatic approach

to the preservation of existing historic materials/manufacture, by studying the original conditions of the buildings. The introduction of new systems in historic buildings not only has a direct traumatic effect on the actual building and its components, but also radically changes one of its vital immaterial elements: the Indoor Microclimate.

Architects, restorers and engineers will find that the book addresses the monitoring of the

indoor microclimate in selected historic buildings that have managed to retain their original state due to the absence of new HVAC systems, and reflects on the advantages of a renewed attention to these aspects.

Indoor air temperature standards for the 21st century

Thomas Telford Series of papers which describe approaches to cold climate habitability from various northern nations including examples from Canada, China, Finland, Greenland, Iceland, Japan, Mongolia, Norway, Soviet

Union, Sweden and the United States.

Cities Designed for Winter Springer Nature

Our responses to our thermal environment have a considerable effect on our performance and behavior, not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years these have been developed to the extent that

detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is a focus on the principles and practice of human response, which incorporates psychology, physiology and

environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the standard text for the design of environments for humans to live and work safely, comfortably and effectively, and for the design of materials which help the

same people cope with their environments.

A GIS Methodology to Analyse (spatial-) Variables
Defining a Place of Thermal Comfort Springer

The majority of the world ' s population live in environments with artificially weakened wind as buildings in urban areas form wind-breaks and reduce wind speeds. Anthropogenic heat is also generated and during the summer dense urban areas suffer from the urban heat island effect, a known urban climate problem. This book discusses how to evaluate the

urban wind environment, including ventilation performance and thermal comfort. This book is organized in two parts; Wind Environment and the Urban Environment and Criteria for Assessing Breeze Environments. It includes chapters on sea breeze in urban areas; thermal adaptation and the effect of wind on thermal comfort; health risk of exposures; pollutant transport in dense urban areas; legal regulations for urban ventilation and new criteria for assessing the local wind environment. Keywords: urban wind environments,

urban heat island, urban climate, land use change, thermal comfort, risk assessment, urban air pollution, urban ventilation Applications of the Universal Thermal Climate Index UTCI in Biometeorology Springer Science & Business Media This book introduces the UTCI (Universal Thermal Climate Index) and summarizes progress in this area. The UTCI was developed as part of the European COST Action Program and first announced to the scientific community in 2009. Since then, a decade has

followed of applicability tests and research results, as well as knowledge gained from applying the UTCI in human adaptation and thermal perception. These findings are of interest to researchers in the interdisciplinary areas of biometeorology, climatology and urban planning. The book summarizes this progress, discussing the limitations found and provides pointers to future developments. It also discusses UTCI applications in the areas of human biometeorology and urban planning including possibilities of using UTCI and similar indices in climate-

responsive urban planning. The book's message is illustrated with many case studies from the real world. Chapter 10 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Design, User Experience, and Usability:

Understanding Users and Contexts Springer

This handbook brings together contributions from experts in environmental and/or conservation psychology to review the current state of research. In

addition to summarizing current knowledge, it provides an understanding of the relationship between environmental and conservation psychology, and of the directions in which these interdependent areas of study are heading.

Proceedings of Plea 1998, Passive and Low Energy Architecture, 1998, Lisbon, Portugal, June 1998 Springer Nature

This book presents selected papers from the 11th International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2019),

with a focus on HVAC techniques for improving indoor environment quality and the energy efficiency of heating and cooling systems. Presenting inspiration for implementing more efficient and safer HVAC systems, the book is a valuable resource for academic researchers, engineers in industry, and government regulators.

From Concept to Clinical Practice Routledge

Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe,

North America and Australia. The invaluable reference to all those concerned with architecture and sustainability issues. Design, Management and Operation Oxford University Press

In the urban environment temperatures rise to higher levels during warm summer periods in comparison with its surrounding rural area, also known as the Urban Heat Island effect (Oke, 1982). Predicted global warming and ongoing urbanization urges urban designers to examine whether the city is climate

proof for its inhabitants in the future. In Rotterdam, Utrecht and Arnhem respectively 192, 179 and 182 questionnaires and mental maps have been collected which inquired the perception of the citizen towards the urban environment during warm summer periods (Phd research “ Green infrastructure for climate-proof cities ” , Klemm. W., Wageningen UR). The mental maps give personal information about where within the urban

environment comfort is experienced in terms of temperature, and for what reasons. This information was communicated by drawings and textual information on a base map (ground plan) of the respective city. The research objective of this thesis is to explore a methodology of digitalisation, visualisation and analysis within Geo-information sciences, that is able to deduce, from the drawn mental maps of the citizens, a generic idea which (spatial-) variables define a

place of thermal comfort. In doing so, three main research steps have been defined: 1) definition “ place of thermal comfort ” 2) quantification of (spatial-) variables, and 3) relating spatial variables with “ places of thermal comfort ” . In the methodological approach the qualitative information of the mental map has been preserved; e.g. satellite imagery helped to define the spatial boundary of the places of thermal comfort, and the chosen spatial variables measured in a GIS referred

to words mentioned frequently in the questionnaire, like “ Sun ” , “ Shadow ” , “ Water ” , “ Green ” and “ Trees ” . The following results and conclusions were found: Step 1) for each of the three cites, a composite of all mental maps presented the level of agreement among respondent for specific places of thermal comfort. Step 2) The measured and visualization of the spatial variables 1) land cover (water, trees, open), and view angle towards the sky have

presented variation in numerical value. This variation in numerical value indicate that the top places of thermal comfort differ in their spatial environment. Distance calculations show that the median distance of a group visitors differs for the separate places of thermal comfort. Step 3) Before conducting statistical validation of how multiple (spatial-) variables determine a place of thermal comfort, (e.g. by means of mixed logit regression), the personal character and place specific	information of the mental map should be revisited. Both on the side of the respondent (age, home situation) and the urban environment (selection of more places and independent variables), more interesting discrete- and continuous independent variables can be found. Tourism CRC Press The combination of global warming and urban sprawl is the origin of the most hazardous climate change effect detected at urban level: Urban Heat Island, representing the urban	overheating respect to the countryside surrounding the city. This book includes 18 papers representing the state of the art of detection, assessment mitigation and adaption to urban overheating. Advanced methods, strategies and technologies are here analyzed including relevant issues as: the role of urban materials and fabrics on urban climate and their potential mitigation, the impact of greenery and vegetation to reduce urban temperatures and improve
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the thermal comfort, the role of the urban geometry in the air temperature rise, the use of satellite and ground data to assess and quantify the urban overheating and develop mitigation solutions, calculation methods and application to predict and assess mitigation scenarios. The outcomes of the book are thus relevant for a wide multidisciplinary audience, including: environmental scientists and engineers, architect and urban planners, policy makers and students. Air Pollution and Control

Springer Nature
Tourism is that area of activity of contemporary man that touches on various fields of human interest. Representatives of numerous academic disciplines find it intriguing for its exceptionally interdisciplinary character. Conditions for and consequences of the development of tourism are investigated, among others, by economists, geographers, sociologists, experts in culture, anthropologists, management and social policy specialists and even by representatives of some natural sciences.

Researchers dealing with tourism need to meet strict methodological requirements, but they get access to a very interesting subject of scientific inquiry, which combines social, cultural, economic and environmental aspects to create an ontologically new quality offering epistemological challenges. Issues in Environmental Economics, Engineering, and Technology: 2013 Edition Indoor Thermal Comfort PerceptionA Questionnaire Approach Focusing on Children Poverty is a social problem

that has never been discussed. Because poverty does not only of materials to the poor, as Both in terms of the poverty concern the economic, well as community rate, the impact it causes, the education, health, empowerment as a factors that cause it, to the infrastructure, but also social, preventive measure taken in alternatives to overcome it. cultural and even political order to develop community The phenomenon of poverty issues. So that a competencies and skills. is related to various multidimensional policy is Therefore, poverty reduction dimensions of life, so that the needed with a coping strategy remains a focus in problem of poverty becomes that involves many parties in development and is a shared very complex. The problem an integrated manner. In responsibility, not only the of poverty requires fact, the government has central government and local multisectoral handling, it made various efforts to governments, but cannot be resolved only from reduce poverty, both at the contributions and one sector but requires a national level and for districts collaboration from various collaborative approach from and cities. Some of these parties are needed. In the various sectors in government efforts include opening job direction of a new life order, as well as with the private opportunities, providing poverty reduction becomes a sector and the community. direct assistance in the form crucial topic to be addressed.

The National Seminar on "Community Empowerment and Poverty Reduction Strategies" is a momentum to bring together various critical views and thoughts from various fields of science related to strategies that can be carried out in reducing poverty. It is hoped that this national seminar will produce an appropriate strategy in accelerating poverty reduction in Indonesia in general and in Bali in particular.
Volume I: Indoor and Outdoor Environment

ScholarlyEditions
The 15th Passive and Low Energy Architecture (PLEA) conference considered the issues of sustainability and environmental friendliness at the city scale. Some 150 papers address the many and varied questions faced by architects and planners in reducing the impact on the environment of cities and their buildings.
The Handbook of Medical Image Perception and Techniques Springer Nature
Indoor Thermal Comfort PerceptionA Questionnaire

Approach Focusing on ChildrenSpringer
A Questionnaire Approach Focusing on Children BoD – Books on Demand
This book focuses on various aspects related to air pollution, including major sources of air pollution, measurement techniques, modeling studies and solution approaches to control. The book also presents case studies on measuring air pollution in major urban areas, such as Delhi, India. The book examines vehicles as a source of air pollution and addresses the quantitative analysis of engine exhaust emissions. Subsequent chapters discuss particulate matter from engines and coal-

fired power plants as a major pollutant, as well as emission control techniques using various after treatment systems. The book 's final chapter considers future perspectives and a way forward for sustainable development. It also discusses several emission control techniques that will gain relevance in the future, when stricter emission norms will be enforced for international combustion (IC) engines as well as power plants. Given its breadth of coverage, the book will benefit a wide variety of readers, including researchers, professionals, and policymakers.

The Psychology of Risk

Routledge

Fresh, insightful and clear, this exciting textbook provides an engaging introduction to the application of qualitative methodology in the real world. Expert researchers then trace the history and philosophical underpinnings of different methodologies, explore the specific demands each places upon the researcher and robustly set out relevant issues surrounding quality and rigor. Featured methodologies include action research, discourse analysis,

ethnography, grounded theory, case studies and narrative inquiry. This practical book provides a helpful guide to the research process - it introduces the relevant methods of generating, collecting and analysing data for each discrete methodology and then looks at best practice for presenting findings. This enables new researchers to compare qualitative methods and to confidently select the approach most appropriate for their own research projects. Key features

include: Summary table for each chapter - allowing quick checks to test knowledge 'Window into' sections - real world examples showing each methodology in action Student activities Learning objectives Full glossary Annotated suggestions for further reading Links to downloadable SAGE articles Links to relevant websites and organizations This is an invaluable resource for students and researchers across the social sciences and a must-have guide for those embarking on a research

project. Visit the accompanying companion website for a range of free additional resources. Urban Heat Stress and Mitigation Solutions Cambridge University Press A number of metrics for assessing human thermal response to climatic conditions have been proposed in scientific literature over the last decades. They aim at describing human thermal perception of the thermal environment to which an individual or a group of people is exposed. More recently, a new type of “ discomfort

index ” has been proposed for describing, in a synthetic way, long-term phenomena. Starting from a systematic review of a number of long-term global discomfort indices, they are then contrasted and compared on a reference case study in order to identify their similarities and differences and strengths and weaknesses. Based on this analysis, a new short-term local discomfort index is proposed for the American Adaptive comfort model. Finally, a new and reliable long-term general discomfort index is presented. It is delivered in three versions

and each of them is suitable to be respectively coupled with the Fanger, the European Adaptive and the American Adaptive comfort models.

Uncertain Rule-Based Fuzzy Systems Springer

The papers presented in this volume advance the state-of-the-art research on digital marketing and social media, mobile computing and responsive web design, semantic technologies and recommender systems, augmented and virtual reality, electronic distribution and online travel

reviews, MOOC and eLearning, eGovernment and sharing economy. This book covers the most significant areas contributed by prominent scholars from around the world and is suitable for both academics and practitioners who are interested in the latest developments in eTourism. Routledge Handbook of Resilient Thermal Comfort Springer Nature Building on the groundbreaking work Lifestyle Medicine (2016), this unique new book bridges the gap

between theory and practice by providing detailed information on the real-world development and creation of a Lifestyle Medicine Center, whether independently or as part of an established medical program or department. Part one sets the stage by establishing the rationale for creating a Lifestyle Medicine Center as well as the medical and economic burden it seeks to alleviate. The construction of the physical facility and all of the myriad details of the program and its key players are covered in part two, from the structural to the aesthetic, including informatics,

developing patient resources and education tools, current technologies and applications, the role of the dietitian and exercise physiologist, inpatient consultation, the importance of community engagement, and more. Part three is comprised of case studies of existing, successful Lifestyle Medicine Centers across the country, with detailed descriptions of their history, development, programs and challenges. Chapters are supported with plentiful figures, tables and useful links. The burden of chronic disease in the U.S. and globally is growing, with

pervasive direct and indirect multi-scale adverse effects on health and well-being, economics, and quality of life. Notwithstanding the remarkable progress in biomedical technology, the role of lifestyle medicine in managing chronic disease in a preventive care model is paramount; however, the relevant and effective education in lifestyle medicine is lacking. Translating the theory into action steps, instantiated by case studies with critical interpretations and problem-solving tools, Creating a Lifestyle Medicine Center is the

go-to resource for family and primary care physicians, internal medicine physicians, and all clinical specialties interested in planning and developing a lifestyle medicine program.