

Article

Multi-Criteria GIS-Based Analysis for Mapping Suitable Sites for Onshore Wind Farms in Southeast France

Mohammed Ifkirne ¹, Houssam El Bouhi ², Siham Acharki ³ , Quoc Bao Pham ^{4,*} , Abdelouahed Farah ⁵ and Nguyen Thi Thuy Linh ⁴

- ¹ Faculty of Geography and Planning, University of Strasbourg, 3, rue de l'Argonne, 67000 Strasbourg, France
- ² Mathematics and Computer Science Research Training Unit, 7, rue René Descartes, 67084 Strasbourg, France
- ³ Department of Earth Sciences, Faculty of Sciences and Techniques of Tangier, University Abdelmalek Essaudi, Tetouan 93000, Morocco
- ⁴ Institute of Applied Technology, Thu Dau Mot University, Thu Dau Mot 75000, Binh Duong Province, Vietnam
- ⁵ Remote Sensing Laboratory (ZCRNT), Department of Geology, Geoscience, Geotourism, Natural Hazards, Faculty of Sciences Semlalia, University of Cadi Ayyad, BP 2390, Marrakech 40000, Morocco
- * Correspondence: phambaoquoc@tdmu.edu.vn

Abstract: Wind energy is critical to traditional energy sources replacement in France and throughout the world. Wind energy generation in France is quite unevenly spread across the country. Despite its considerable wind potential, the research region is among the least productive. The region is a very complicated location where socio-environmental, technological, and topographical restrictions intersect, which is why energy production planning studies in this area have been delayed. In this research, the methodology used for identifying appropriate sites for future wind farms in this region combines GIS with MCDA approaches such as AHP. Six determining factors are selected: the average wind speed, which has a weight of 38%; the protected areas, which have a relative weight of 26%; the distance to electrical substations and road networks, both of which have a significant influence on relative weights of 13%; and finally, the slope and elevation, which have weights of 5% and 3%, respectively. Only one alternative was investigated (suitable and unsuitable). The spatial database was generated using ArcGIS and QGIS software; the AHP was computed using Excel; and several treatments, such as raster data categorization and weighted overlay, were automated using the Python programming language. The regions identified for wind turbines installation are defined by a total of 962,612 pixels, which cover a total of 651 km² and represent around 6.98% of the research area. The theoretical wind potential calculation results suggest that for at least one site with an area bigger than 400 ha, the energy output ranges between 182.60 and 280.20 MW. The planned sites appear to be suitable; each site can support an average installed capacity of 45 MW. This energy benefit will fulfill the region's population's transportation, heating, and electrical demands.

Keywords: spatial energy planning; France; GIS; MCDA-AHP; suitability map; onshore wind farms



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1. Introduction

Increased energy consumption in developed and developing countries as a result of prolonged economic growth [1] may lead to fast resource depletion, environmental degradation, biodiversity loss, and climate change [2–4]. Therefore, governments are required to focus their efforts on reducing greenhouse gas emissions and other environmental, social, and economic problems [5–7], as well as converting energy supply to green energy production methods.

Indeed, France generates electricity, heat, and transportation using a variety of energy sources. This energy mix includes nuclear, fossil fuels, and renewable sources. According to the Minister of Environmental Transition's key energy numbers for 2021/2020, nuclear accounts for 40% of energy, oil for 28%, and natural gas for 16%. However, in France, renewable energy accounts for just 13% of total energy consumption [8]. Due to its support

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Christine Olivia Uy



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Fuzzy Logic Based in Optimization Methods and Control Systems and Its Applications Ali Sadollah,2018-10-31 Fuzzy logic models can be used to demonstrate human decision making in complex situations and can therefore be an important tool in examining natural complexity Moreover fuzzy logic can be exploited to predict chaotic behaviors But why is fuzzy logic so valuable The idea of fuzzy logic has been around since 1965 and since its introduction thousands of applications of fuzzy logic have been implemented in industry medicine and even economic applications and patents How did this invaluable theory achieve such great success This book aims to compare well known and well used membership functions to demonstrate how to select the best membership functions and show when and why to utilize them This book also demonstrates how different fields of studies utilize fuzzy logic showing its wide reach and relevance

Advances in Hydroinformatics Philippe Gourbesville,Guy Caignaert,2022-09-16 This book includes a collection of extended papers based on presentations given during the SIMHYDRO 2021 conference held in Sophia Antipolis in June 2021 with the support of French Hydrotechnic Society SHF It focused on Models for complex and global water issues Practices and expectations The water field is continuously mobilizing models for addressing complex issues and new challenges Within the context of the climate change the water issues are exacerbated with the competition among uses The limited water resources request from the modern societies to review some of the historical paradigms traditionally used and to promote new approaches for a sustainable management The combined complexity and vulnerability of large urban environments request a deep understanding of water uses and environmental synergy At the same time water related natural hazards are contentiously straightening modern societies that must adapt and implement a more resilient environment In parallel in the industrial sector the search for a high level of efficiency for hydraulic machinery requests to simulate complex processes Under all these situations the models currently used represent only partly the physical phenomena involved the scale of the processes the hypothesis included within the different numerical tools etc The design and the operation of relevant models represent a challenging task for the

modeller who is responsible of the knowledge part of a global system that is dedicated to support the decision makers The book explores both the limitations and performance of current models and presents the latest developments based on new numerical schemes high performance computing multi physics and multi scales methods and better interaction with field or scale model data It addresses the interests of practitioners stakeholders researchers and engineers active in this field

Location Science Gilbert Laporte, Stefan Nickel, Francisco Saldanha da Gama, 2020-03-16 This book presents essential information on modern location science in a word all you need to know about location The second edition of this handbook has been fully revised throughout with numerous updates and chapters added to offer an even more comprehensive overview of methods and applications The book is divided into three parts basic concepts advanced concepts and applications Written by the most respected specialists in the field and thoroughly reviewed by the editors it first lays out the fundamental problems in location science and provides readers with basic background information on location theory Part II covers advanced models and concepts broadening and expanding on the content presented in Part I It also discusses important tools to help readers grasp and solve real world location problems Part III focuses on the links between location science and other areas like GIS telecommunications healthcare rapid transit networks districting problems and disaster events and presents a wide range of applications to allow readers to understand the role of facility location in such areas and learn how to handle real world location problems The book is intended for researchers working on theory and applications involving location problems and models It is also suitable as a textbook for graduate courses on facility location

Encyclopedia of Renewable Energy, Sustainability and the Environment, 2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

Spatial Information Science for Natural Resource Management Singh, Suraj Kumar, Kanga, Shruti, Mishra, Varun Narayan, 2020-06-26 Stress on natural resources has recently increased due to commercialization and the need to provide livelihoods for locals Because they are such core parts of everyday life ensuring sustainability in resource management is of

paramount importance Only by integrating the tools of spatial information science can an effective course for preserving and protecting natural resources be created Spatial Information Science for Natural Resource Management is a pivotal reference source that explores coordinated approaches to sustainable development and management of natural resources to keep a balance of the environment ecology and human livelihood Featuring coverage on a wide range of topics including crop yield estimation ecosystem services and land information systems this book covers interdisciplinary techniques in monitoring and managing natural resources This publication is ideally designed for urban planners environmentalists policymakers ecologists researchers academicians students and professionals in the fields of remote sensing civil engineering social science computer science and information technology

Prioritizing Sites for Tidal Wetland Restoration Using Public Participation, Geographic Information Systems and Multi-criteria Decision Analysis Methods Khemarith J. So,2005 *Revista Mexicana de Ciencias Geológicas* ,2007 **Advanced GIS Applications for Civil Infrastructure Systems** Christine Olivia Uy,2002 Rural Development Abstracts ,2010 *Information and Communication Technologies in Tourism 1997* A.Min Tjoa,1997-01-09 This volume presents the proceedings of the 1998 International Conference on Information and Communication Technologies in Tourism which sought to provide a forum for discussing the role of telecommunication and information systems in tourism FAO Fisheries Technical Paper ,2007 DAC Guidelines and Reference Series Applying Strategic Environmental Assessment Good Practice Guidance for Development Co-operation OECD,2006-12-01 This Guidance volume explains the benefits of using SEA in development co operation and sets out key steps for its application based on recent experiences Proceedings, Emerging Issues Along Urban/Rural Interfaces: Linking Science and Society David N. Laband,2005 **Application of Geographic Information Systems to Tourism Development Planning** ,1998 *Toward No Net Loss* ,1993 *International Integrated Engineering Summit 2014* Al Emran Ismail,Amir Khalid,Aziman Madun,Ahmad Kueh Beng Hong,Fariza Mohamad,Hamidon Salleh,Kamaruddin Ambak,Mohammad Kamil Abdullah,Mohd Azlis Sani Md Jalil,Mohd Ezree Abdullah,Mohd Fahrul Hassan,Mohd Halim Irwan Ibrahim,Mohd Khairul bin Ahmad,Nan Mad Sahar,Nik Hisyamudin Muhd Nor,Nor Aiziz Yusoff,Norwati Jamaluddin,Norzila Othman,Radin Maya Saphira Radin Mohamed,Saidin Wahab,Saiful Azhar Ahmad Tajudin,Saifulnizan Jamian,Chin Fhong Soon,Wan Mahani Hafizah Wan Mahmud,Mohd Zainizan Sahdan,2015-07-15 Selected peer reviewed papers from the 1st International Integrated Engineering Summit IIES 2014 December 1 4 2014 Batu Pahat Malaysia Impacts of a Potential Climate Change on Forests of the Czech Republic Bohuslav Vinš,1997 **The Grazier** ,1994 **Fundamentals of Geographic Information Systems** William J. Ripple,1989

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