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The role of the marine research infrastructures in the European marine observation landscape: present and future perspectives

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The ocean regulates the exchange, storage of carbon dioxide, plays a key role in global control of Earth climate and life, absorbs most of the heat excess from greenhouse gas emissions and provides a remarkable number of resources for the human being. Most of the geo-hazards occur in oceanic areas. Thus, high-quality systematic observations are necessary tools for improving our understanding, and subsequent assimilation to provide early warning systems. A holistic scientific approach for the understanding of the ocean's interrelated processes requires coordinated and complementary monitoring and observation programmes. Research Infrastructures (RIs) are large-scale facilities that provide resources and services for the scientific communities to conduct high-level research and foster innovation. RIs benefit from strong governance and multi-annual funding from their member states with operational life spans in decades. RIs promote knowledge, outreach and education to public, private, and policy stakeholders, and they play a key role in enabling and developing research in all scientific domains and currently represent a growing share of coordinated investment in research, and also in providing essential observations to operational services such as Copernicus. They are strategically important for Europe to lead a global movement towards a data-driven, interconnected, open digital twin that brings together different disciplines, clean technologies, public and private sectors and a broad scientific/technological community, as well as education and training. In Europe several marine RIs have been established, which are maintained by national and European Union (EU) resources. The aims of these infrastructures are aligned with the key priorities of the UN Decade of Ocean Science for Sustainable Development; and with the new European Research Area (ERA) Policy Agenda annexed to the Council conclusions on the

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Reflections on the Role of Research Infrastructures in the European Research Area Campbell Warden, European Commission. Directorate General for Research, 2001 During the past two decades there has been a trend away from large research facilities dedicated to a specific discipline or research area to the development of research infrastructures that are a service facility for a variety of scientific communities This publication is the proceedings of a conference held to examine the aspects of science policy that relate to infrastructures It was organised under six themes the role of infrastructure in research technological innovation industrial and socio economic aspects of research infrastructure international dimension evaluation and monitoring of access to research infrastructures infrastructure networking how to develop a European Research Infrastructure European Access, 2001 *Bibliographic Guide to Government Publications 2001* GK Hall, Thomson Gale, 2002-08 HMSO Agency Catalogue Great Britain. Her Majesty's Stationery Office, 2001 **The Stationery Office Agency Catalogue** Stationery Office (Great Britain), 2001 Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations Hiroshi Yokota, Dan M. Frangopol, 2021-04-19 Bridge Maintenance Safety Management Life Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance Safety and Management IABMAS 2020 held in Sapporo Hokkaido Japan April 11 15 2021 This volume consists of a book of extended abstracts and a multimedia device containing the full papers of 571 contributions presented at IABMAS 2020 including the T Y Lin Lecture 9 Keynote Lectures and 561 technical papers from 40 countries The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance safety management life cycle sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle sustainability standardization analytical models bridge management systems service life prediction maintenance and management strategies structural health monitoring non destructive testing and field testing safety resilience robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads and application of information and computer technology and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance safety management life cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering *Geographic Information Systems to Spatial Data Infrastructures* Ian Masser, 2019-09-25 This book draws on author's wealth of knowledge working on numerous projects across many countries It provides a clear overview of the development of the SDI concept and SDI

worldwide implementation and brings a logical chronological approach to the linkage of GIS technology with SDI enabling data The theory and practice approach help understand that SDI development and implementation is very much a social process of learning by doing The author masterfully selects main historical developments and updates them with an analytical perspective promoting informed and responsible use of geographic information and geospatial technologies for the benefit of society from local to global scales Features Subject matter spans thirty years of the development of GIS and SDI Brings a social science perspective into GIS and SDI debates that have been largely dominated by technical considerations Based on a world wide perspective as a result of the author s experience and research in the USA Australia Canada Brazil Peru China India Korea Malaysia and Japan as well as most European countries Draws upon professional and academic experience relating to pioneering UK and European GIS research initiatives Includes updated historical material with an analytical perspective explaining what was done right and what didn t work *ECIAIR 2021 3rd European Conference on the Impact of Artificial Intelligence and Robotics* Prof Florinda Matos,2021-11-18 **ICTR 2019 2nd International Conference on Tourism Research 2020** Cristina Sousa,Isabel Vaz de Freitas ,Jorge Marques,2019-03-14 **Swarm Intelligence Applications for the Cities of the Future** Leonor Marques Mano Domingos,Maria José Sousa,2025-03-13

This book explores the transformative power of swarm intelligence and digital innovations in shaping the cities of the future It presents a comprehensive analysis of how social learning citizen engagement advanced technology design construction planning and public policies converge to create cities that are sustainable resilient and inclusive The initial chapters stress the importance of collective intelligence in urban development using technologies like Virtual Reality to increase citizen participation and democratise decision making Public policies play a key role in driving the digital transformation needed for greener cities with frameworks and tools to enhance transparency and accountability Digital technologies in policymaking ensure that policies are adaptive data driven and responsive to real time challenges Internet of Things systems are explored for their role in improving public safety urban resilience and energy efficiency through digital twins blockchain and sensor networks Swarm intelligence is highlighted for optimising energy management reducing consumption and promoting renewable resources Healthcare integration into urban planning and sustainability is also discussed with a comparative analysis of cities showing how tech innovation enhances resilience against climate change Swarm intelligence beyond cities is also explored such as for disaster response healthcare environmental conservation and agriculture Autonomous systems like drones and nanobots are shown to improve efficiency across various sectors Overall this book advocates for a holistic approach to urban development integrating digital technologies and collective intelligence to create cities that are technologically advanced socially equitable and environmentally sustainable

The Top Books of the Year Reflections On The Role Of Research Infrastructures In The European Research Area Conference Highlights The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Reflections On The Role Of Research Infrastructures In The European Research Area Conference Highlights : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Reflections On The Role Of Research Infrastructures In The European Research Area Conference Highlights : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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