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Mobile Robots NavigationBuilding Digital TwinsInfrastructure Computer VisionMorphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant SciencesNew Approaches in Management of Smart Manufacturing SystemsLaser ScanningInformatics in Control, Automation and RoboticsMake Your Scanner A Great Design And Production Tool RevisedDesktop ScannersColor Aerial Photography in the Plant Sciences and Related FieldsMacUserSMPTE JournalGeoWorldLithographic Technology in TransitionRailway Signaling and CommunicationsTextile WorldAdvances in Manufacturing SystemsDevice-independent Color ImagingSuperimposition Accuracy of Various Three-dimensional Craniofacial Data SetsMultimedia and Image Management Alejandra Barrera Andrius Jurelionis Ioannis Brilakis Alexander Bucksch Lucia Knapcikova Belén Riveiro Kurosh Madani Michael Sullivan Robert G. Gann Society of Motion Picture and Television Engineers Ervin A. Dennis Juan Jose Aguilar Martín Eric Walowit Andrew Thomas Harner Susan Lake Mobile Robots Navigation Building Digital Twins Infrastructure Computer Vision Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences New Approaches in Management of Smart Manufacturing Systems Laser Scanning Informatics in Control, Automation and Robotics Make Your Scanner A Great Design And Production Tool Revised Desktop Scanners Color Aerial Photography in the Plant Sciences and Related Fields MacUser SMPTE Journal GeoWorld Lithographic Technology in Transition Railway Signaling and Communications Textile World Advances in Manufacturing Systems Device-independent Color Imaging Superimposition Accuracy of Various Three-dimensional Craniofacial Data Sets Multimedia and Image Management Alejandra Barrera Andrius Jurelionis Ioannis Brilakis Alexander Bucksch Lucia Knapcikova Belén Riveiro Kurosh Madani Michael Sullivan Robert G. Gann Society of Motion Picture and Television Engineers Ervin A. Dennis Juan Jose Aguilar Martín Eric Walowit Andrew Thomas Harner Susan Lake

mobile robots navigation includes different interrelated activities i perception as obtaining and interpreting sensory information ii exploration as the strategy that guides the robot to select the next direction to go iii mapping involving the construction of a spatial representation by using the sensory information perceived iv localization as the strategy to estimate the robot position within the spatial map v path planning as the strategy to find a path towards a goal location being optimal or not and vi path execution where motor

actions are determined and adapted to environmental changes the book addresses those activities by integrating results from the research work of several authors all over the world research cases are documented in 32 chapters organized within 7 categories next described

this open access book gathers peer reviewed contributions presented at the building digital twin international congress bdtic held in kaunas lithuania on may 14 15 2025 as part of the smartwins project focusing on digital twins to ensure the transition to a smart sustainable resilient and carbon neutral built environment the contributions highlight the latest findings in this fast growing field addressing topics such integral components of smart buildings digitised assessment indoor environmental quality assessment with smart sensors iot and digital twins for assessing the performance of smart buildings and energy assessment of smart buildings in bim environment

infrastructure computer vision delves into this field of computer science that works on enabling computers to see identify process images and provide appropriate output in the same way that human vision does however implementing these advanced information and sensing technologies is difficult for many engineers this book provides civil engineers with the technical detail of this advanced technology and how to apply it to their individual projects explains how to best capture raw geometrical and visual data from infrastructure scenes and assess their quality offers valuable insights on how to convert the raw data into actionable information and knowledge stored in digital twins bridges the gap between the theoretical aspects and real life applications of computer vision

an increasing population faces the growing demand for agricultural products and accurate global climate models that account for individual plant morphologies to predict favorable human habitat both demands are rooted in an improved understanding of the mechanistic origins of plant development such understanding requires geometric and topological descriptors to characterize the phenotype of plants and its link to genotypes however the current plant phenotyping framework relies on simple length and diameter measurements which fail to capture the exquisite architecture of plants the research topic morphological plant modeling unleashing geometric and topological potential within the plant sciences is the result of a workshop held at national institute for mathematical and biological synthesis nimbios in knoxville tennessee from 2 4 september 2015 over 40 scientists from mathematics computer science engineering physics and biology came together to set new frontiers in combining plant phenotyping with recent results from shape theory at the interface of geometry and topology in doing so the research topic synthesizes the views from multiple disciplines to reveal the potential of new mathematical concepts to analyze and quantify the

relationship between morphological plant features as such the research topic bundles examples of new mathematical techniques including persistent homology graph theory and shape statistics to tackle questions in crop breeding developmental biology and vegetation modeling the challenge to model plant morphology under field conditions is a central theme of the included papers to address the problems of climate change and food security that require the integration of plant biology and mathematics from geometry and topology research applied to imaging and simulation techniques the introductory white paper written by the workshop participants identifies future directions in research education and policy making to integrate biological and mathematical approaches and to strengthen research at the interface of both disciplines

this book provides a comprehensive and effective exchange of information on current developments in the management of manufacturing systems and industry 4 0 the book aims to establish channels of communication and disseminate knowledge among professionals working in manufacturing and related institutions in the book researchers academicians and practitioners in relevant fields share their knowledge from the sectors of management of manufacturing systems the chapters were selected from several conferences in the field with the topics including management of manufacturing systems with support for industry 4 0 logistics and intelligent manufacturing systems and applications cooperation management and its effective applications the book also includes case studies in logistics rfid applications and economic impacts in logistics ict support for industry 4 0 industrial and smart logistics intelligent manufacturing systems and applications

this book provides an overview on the evolution of laser scanning technology and its noticeable impact in the structural engineering domain it provides an up to date synthesis of the state of the art of the technology for the reverse engineering of built constructions including terrestrial mobile and different portable solutions for laser scanning data processing of large point clouds has experienced an important advance in the last years and thus an intense activity in the development of automated data processing algorithms has been noticed thus this book aims to provide an overview of state of the art algorithms different best practices and most recent processing tools in connection to particular applications readers will find this a comprehensive book that updates the practice of laser scanning for researchers and professionals not only from the geomatic domain but also other fields such as structural and construction engineering a set of successful applications to structural engineering are illustrated including also synergies with other technologies that can inspire professionals to adopt laser scanning in their day to day activity this cutting edge edited volume will be a valuable resource for students researchers and professional

engineers with an interest in laser scanning and its applications in the structural engineering domain

the book addresses the latest advances in research and development in the field of informatics in control robotics and automation with more than twenty revised and extended articles covering the theoretical aspects as well as applications and their implementation it offers a factual and well balanced overview of the state of the art in the field in addition it highlights the trends in control of intelligent robots the book is an up to date source of information and inspiration for researchers engineers and phd students

the ultimate layperson s reference on scanners and their capabilities with information on technical aspects of the scanning process and types of scanners and instructions for achieving effects in color and bandw color correction using 3d objects restoring damaged photos scanning from negative to positive and creating custom computer screens a gallery section shows what eight artists and companies are doing with this versatile art and design tool includes color and bandw photos vendor lists a glossary and discussion of legal issues annotation copyright by book news inc portland or

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designed for the serious graphic communications student this text examines both the traditional and cutting edge technologies of lithography technology business and career topics are discussed in depth as the text assists the reader in making the transition from traditional lithography to the high technology printing processes of the present and the future

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