



Review

Advancements in Smart Nondestructive Evaluation of Industrial Machines: A Comprehensive Review of Computer Vision and AI Techniques for Infrastructure Maintenance

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Abstract: Infrastructure maintenance is critical to ensuring public safety and the longevity of essential structures. Nondestructive Evaluation (NDE) techniques allow for infrastructure inspection without causing damage. Computer vision has emerged as a powerful tool in this domain, providing automated, efficient, and accurate solutions for defect detection, structural monitoring, and real-time analysis. This review explores the current state of computer vision in NDE, discussing key techniques, applications across various infrastructure types, and the integration of deep learning models such as convolutional neural networks (CNNs), vision transformers (ViTs), and hybrid models. The review also highlights challenges, including data availability and scalability. It proposes future research directions, including real-time monitoring and the integration of Artificial Intelligence (AI) with Internet of Things (IoT) devices for comprehensive inspections.

Keywords: nondestructive evaluation; structural health monitoring; defect detection; deep learning models; predictive maintenance

1. Introduction

Infrastructure is essential in modern society, supporting transportation, communication, and urban development. From bridges and highways to pipelines and buildings, the integrity and safety of these structures are essential [1]. The regular inspection and maintenance of such infrastructure are vital to prevent accidents, reduce maintenance costs, and extend the lifespan of structures [2]. Traditionally, these inspections have relied on manual methods such as visual inspections and basic testing techniques. However, these approaches are time-consuming, labor-intensive, and prone to human error [3]. Nondestructive Evaluation (NDE) refers to various techniques used to assess the condition of infrastructure without damaging structures [4]. These methods are crucial for evaluating critical infrastructure such as bridges, buildings, pipelines, and railways, as they allow for the early detection of defects and deterioration, thus preventing failures [5]. Traditional NDE methods include ultrasonic testing, radiography, thermography, and acoustic emission testing, which have been widely used for decades [6]. Each technique provides valuable insights: ultrasonic testing utilizes high-frequency sound waves to detect internal



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Recent Advances in Nondestructive Evaluation Techniques for Material Science and Industries Chiaki Miyasaka, 2004 Practical Residual Stress Measurement Methods Gary S. Schajer, 2013-09-23 An introductory and intermediate level handbook written in pragmatic style to explain residual stresses and to provide straightforward guidance about practical measurement methods Residual stresses play major roles in engineering structures with highly beneficial effects when designed well and catastrophic effects when ignored With ever increasing concern for product performance and reliability there is an urgent need for a renewed assessment of traditional and modern measurement techniques Success critically depends on being able to make the most practical and effective choice of measurement method for a given application Practical Residual Stress Measurement Methods provides the reader with the information needed to understand key residual stress concepts and to make informed technical decisions about optimal choice of measurement technique Each chapter written by invited specialists follows a focused and pragmatic format with subsections describing the measurement principle residual stress evaluation practical measurement procedures example applications references and further reading The chapter authors represent both international academia and industry Each of them brings to their writing substantial hands on experience and expertise in their chosen field Fully illustrated throughout the book provides a much needed practical approach to residual stress measurements The material presented is essential reading for industrial practitioners academic researchers and interested students Key features Presents an overview of the principal residual stress measurement methods both destructive and non destructive with coverage of new techniques and modern enhancements of established techniques Includes stand alone chapters each with its own figures tables and list of references and written by an invited team of international specialists Nondestructive Evaluation of Materials by Infrared Thermography Xavier P.V. Maldague, 2012-12-06 With national trade barriers falling causing the expansion of the competitive global market the question of quality control has become an essential issue for the 1990s The time where the promise was to replace a product if it does not work seems to have passed what is more important now is not so much a reduction in what is going wrong but an increase of what is going right the first time Feigenbaum 1990 This new trend is sometimes referred to as total quality Among the many advantages of this zero defect manufacturing policy we can enumerate Laurin 1990 superior marketability of wholly dependable products enormous gain in productivity elimination of waste ful cost in replacing poor quality work and retrofitting rejected products from the field Although total quality is a relatively new and attractive concept for mass products such as cars consumer electronics and per sonal computers in many fields mainly aerospace and military it has been the rule for years because of security reasons Advances in Manufacturing and Processing of Materials and Structures Yoseph Bar-Cohen, 2018-09-03 Advances in Manufacturing and Processing of Materials and Structures cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes It s

intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures A key development incorporated within this book is 3D printing which is being used to produce complex parts including composites with odd shape fibers as well as tissue and body organs This book has been tailored for engineers scientists and practitioners in different fields such as aerospace mechanical engineering materials science and biomedicine Biomimetic principles have also been integrated Features Provides the latest state of the art on different manufacturing processes including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world class researchers in their respective fields Provides in depth presentation of the latest 3D and 4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study Advances in Signal Processing for Nondestructive Evaluation of Materials X.P. Maldague, 2012-12-06 Non Destructive Evaluation NDE is now playing an increasing role in our modern global economy in security sensitive industries for instance The complexity of the inspection task and either large or limited lot runs now require more operator assisted or fully automated signal processing This book deals with both fields of expertise NDE and signal processing On the signal processing side in the particular context of NDE applications the following topics are discussed sensor fusion signal knowledge representation artificial intelligence fuzzy logic computer vision integration of numeric and non numeric informations parallel decomposition noise processing and calibration of sensor devices as well as reliability of detection Some hardware considerations are introduced as well to discuss platforms on which processing is done On the NDE side applications include advances in holographic interferometry microwave resonance or shearography and also on more traditional NDE techniques such as ultrasonics infrared techniques X ray computed tomography Eddy currents Inverse problems are also discussed This book is required reading for those who already have some experience in one or both fields signal processing and or NDE Critical Technologies Plan ,1989 Nuclear Science Abstracts .1970

Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson, Dale E. Chimenti, 2012-12-06 These Proceedings consisting of Parts A and B contain the edited versions of most of the papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Snowmass Village Colorado on July 31 to August 4 1994 The Review was organized by the Center for NDE at Iowa State University in cooperation with the Ames Laboratory of the US DOE the Materials Directorate of the Wright Laboratory Wright Patterson Air Force Base the American Society of Nondestructive Testing the Department of Energy the National Institute of Standards and Technology the Federal Aviation Administration the National Science Foundation Industry University Cooperative Research Centers and the Working Group in Quantitative NDE This year s Review of Progress in QNDE was attended by approximately 450 participants from the U S and many foreign countries who presented over 360 papers The meeting was divided into 36 sessions with as many as four sessions running concurrently The Review covered all phases of NDE research and development from fundamental

investigations to engineering applications or inspection systems and it included many important methods of inspection science from acoustics to x rays In the last eight to ten years the Review has stabilized at about its current size which most participants seem to agree is large enough to permit a full scale overview of the latest developments but still small enough to retain the collegial atmosphere which has marked the Review since its inception **Annual Report - National Academy** of Engineering National Academy of Engineering, 1971 Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations for 1990 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies, 1989 Departments of Commerce, Justice, and State, the Judiciary, and related agencies appropriations for 1989 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies, 1988 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1993 Materials Science and Engineering Laboratory, 1993 Technical Aerospace Reports ,1992 Applied Mechanics Reviews ,1985 Departments of Commerce, Justice, and State, the Judiciary, and related agencies appropriations for 1991 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Agencies, 1990 Appropriations for 1991: Department of Commerce pt. 2. Department of Justice pt. 3. Department of State ... pt. 4. The Judiciary ... pts. 5-6. Related Agencies ... pt. 7. Testimony of members of Congress and other interested individuals and organizations United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies, 1990 Investment in Research and Development United States. Congress. Joint Economic Committee, 1988 Electromagnetic Nondestructive Evaluation (IX) Lalita Udpa, Nicola Bowler, 2005 Electromagnetic Nondestructive Evaluation has grown considerably in recent years largely due to advances in sensor technology computational modeling and data analysis techniques This publication discusses developments in numerical simulation of physical phenomena associated with electromagnetic NDE methods new electromagnetic sensors signal and image processing techniques and inverse solutions to NDE problems Electromagnetic Nondestructive Evaluation IX emphasizes basic science and early engineering developments in the field as well as practical application of emerging technologies to problems of direct relevance to industry The book contains thirty six technical papers covering topics on modeling forward and inverse problems new inspection methods materials characterization signal Advanced Materials and Processing Federal Coordinating Council for Science, Engineering, processing and applications and Technology. Committee on Industry and Technology, 1992

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