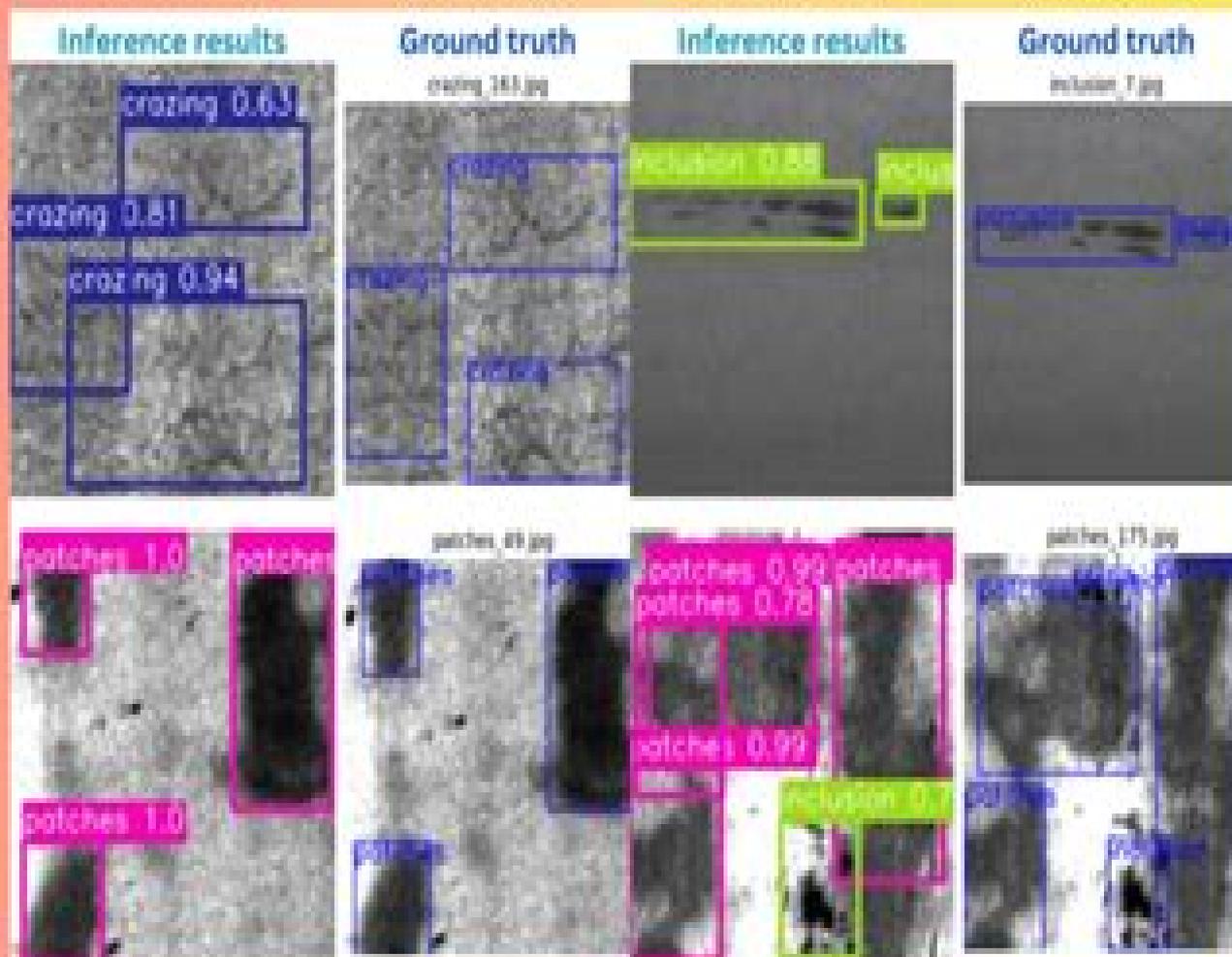


# Steel Surface Defect Detection using Object Detection



# Improving Surface Defect Detection For Quality Assessment

**Rakesh Singh Sengar, Ashu Singh**



## **Improving Surface Defect Detection For Quality Assessment:**

*Computer Vision Technology for Food Quality Evaluation* Da-Wen Sun, 2016-04-07 *Computer Vision Technology for Food Quality Evaluation* Second Edition continues to be a valuable resource to engineers researchers and technologists in research and development as well as a complete reference to students interested in this rapidly expanding field This new edition highlights the most recent developments in imaging processing and analysis techniques and methodology captures cutting edge developments in computer vision technology and pinpoints future trends in research and development for food quality and safety evaluation and control It is a unique reference that provides a deep understanding of the issues of data acquisition and image analysis and offers techniques to solve problems and further develop efficient methods for food quality assessment Thoroughly explains what computer vision technology is what it can do and how to apply it for food quality evaluation Includes a wide variety of computer vision techniques and applications to evaluate a wide variety of foods Describes the pros and cons of different techniques for quality evaluation [Digitalization in Additive Manufacturing](#) Numan M.

Durakbasa, Kerim Cetinkaya, Pinar Demircioglu, Ismail Bogrekci, 2025-07-14 This book features a selection of papers presented at the 8th International Congress on 3D Printing Technologies and Digital Industry 2024 3D PTC2024 held from September 6 8 2024 in Antalya T rkiye in a hybrid format It covers several topics reflecting the dynamic landscape of additive manufacturing and digital innovation The chapters explore cutting edge advancements in materials and techniques alongside practical applications in medical dental and industrial realms Digital design simulation and sustainability considerations are presented with discussions on regulatory frameworks and future trends offering a comprehensive view of this transformative field **Computational Intelligence and Image Processing in Agriculture** Jay Kumar Pandey, Mritunjay Rai, Tanmay

Sarkar, 2025-11-27 *Revolutionizing Agricultural Quality Control with AI Image Processing and Computational Intelligence Techniques* As the global demand for high quality sustainable agricultural products increases advanced technology becomes critical in meeting these challenges *Computational Intelligence and Image Processing in Agriculture* explores how innovative technologies are transforming agricultural quality evaluation Combining foundational concepts with practical applications this comprehensive text delves into innovative techniques to improve accuracy efficiency and sustainability in quality control Addressing key challenges faced by researchers practitioners and industry professionals contributions from leading experts in AI agriculture and computational intelligence provide a deep understanding of technologies such as deep learning computer vision and AI driven robotics Real world examples step by step tutorials and code snippets make the concepts accessible and actionable while coverage of emerging trends and future directions highlights the evolving landscape of agricultural technology Offering interdisciplinary insights and practical tools to modernize evaluation techniques reduce waste enhance food safety and meet the growing demands of sustainable farming practices this book Addresses challenges and solutions for real time monitoring systems in agriculture Highlights cutting edge applications such as AI driven robotics

and LiDAR in farming Emphasizes sustainability and environmental impact through technological innovation Offers detailed coverage of image analysis algorithms for quality control Discusses ethical and environmental implications of technology in agriculture This book is ideal for advanced undergraduate and graduate courses in agricultural engineering computer science and AI applications It is also an essential reference for professionals including agricultural scientists AI practitioners and quality control experts

*Innovations in Mechatronics Engineering IV* Jose Machado,2025 This book reports on innovations and engineering achievements of industrial relevance with a special emphasis on developments in mechatronics control engineering and signal processing It gathers peer reviewed papers presented at the 4th International Conference Innovation in Engineering ICIE 2025 held on June 18 20 2025 in Prague Czech Republic It covers advances in automated detection and monitoring systems industrial applications of machine learning and artificial neural networks and industrial robots and medical devices among other topics This second volume of a three volume set provides engineering researchers and professionals with a timely snapshot of technologies and strategies that should help improve production efficiency industrial sustainability and human well being

**Improving the Effectiveness and Reliability of Non-destructive Testing** W. E. Gardner,1992

**Eco-friendly Agro-biological Techniques for Enhancing Crop Productivity** Rakesh Singh Sengar,Ashu Singh,2018-03-13 As the world population is exploding and alongside fluctuations in climate is also prevalent there is an increasing stress on the food requirements of the population We have an urgent necessity to produce more food in the limited agricultural land Further to feed 7 billion people there is a requirement of high yielding crops without harming environment and limiting the use of unnecessary pesticide and chemical fertilizers Therefore it has become crucial to develop agri bio techniques which are environment friendly and also give high crop productivity Many countries are evaluating the utility of biotechnology and its role in addressing problems of food security and poverty Biotechnology is the application of scientific and engineering principles to the processing and production of materials by utilising biological agents These agents are exploited to provide goods and services Agricultural biotechnology encompasses a growing list of techniques that range from simple probes to determine a relevant gene from the complete genome to manipulating genes for a desired outcome Many other popular methods used in the realm of agricultural technology are gene integration Marker assisted breeding Tissue culture Gene profiling or association mapping Metabolomics etc The fundamental challenge facing the scientific community is how to devise innovative strategies that will bring all developed as well as developing countries into the biological fold and to do so in ways that will take full advantage of advances in the biological sciences to curb poverty improve public health and promote human development This book contains information on eco friendly techniques for high crop productivity and it is a myriad of different techniques and technology used to sustain productivity in crop plants There are fewer books focusing on large scale organic farming molecular farming etc Multidisciplinary research and literature is needed to deliver knowledge and products into the marketplace which fulfil these requirements The present book is a

collection of literature contributed by experts scientists professors and researchers from around the world it emphasizes work of concerned scientist and his choice of techniques used for enhancement of agricultural production This book analyses the use of modern techniques to increase crop yields production and risk of hunger linked to socioeconomic scenarios **AI in Agriculture - Present Trends and Future Worldwide Scenario** Dr. Yogesh Gautam,Dr. Alok Kumar,Dr. Shashi Rawat,Mr. Gitesh Verma,2025-11-08 The twenty first century has witnessed an unprecedented convergence of artificial intelligence AI and agriculture two fields that once seemed worlds apart With the global demand for food rising and natural resources under increasing strain technology driven innovation is no longer a luxury but a necessity This book AI Applications in Agriculture with Special Reference to Potato Mushrooms and Saffron seeks to explore how AI can transform agricultural practices enhance productivity and ensure sustainability in some of the most economically significant and sensitive crops Potato mushrooms and saffron represent diverse agricultural systems from field based tuber cultivation to controlled environment farming and high value niche crops Each presents unique challenges in terms of disease management yield prediction post harvest handling and market forecasting Through the lens of artificial intelligence this book discusses how technologies such as machine learning computer vision robotics and data analytics can address these challenges effectively The chapters combine theoretical insights with practical case studies reflecting recent advances in AI based modelling precision agriculture and automation Readers will gain an understanding of how algorithms can diagnose crop diseases through image analysis optimize environmental parameters for mushroom cultivation and predict quality and yield in saffron production The content is designed to benefit students researchers academicians agripreneurs and policy makers who aspire to integrate AI into agricultural ecosystems The idea for this book emerged from the growing realization that the future of agriculture lies at the intersection of biology and computation By documenting the evolving role of AI in transforming agricultural practices especially in crops of regional and global importance this work aims to contribute to a more resilient data driven and sustainable agri future It is our hope that this book serves as both a reference and an inspiration encouraging further exploration innovation and collaboration between the domains of artificial intelligence and agricultural sciences **Robotics, Computer Vision and Intelligent Systems** Joaquim Filipe,Juha Röning,2024-05-07 This volume constitutes the proceedings of the 4th International Conference on Robotics Computer Vision and Intelligent Systems ROBOVIS 2024 which was held in Rome Italy during February 25 27 2024 The 8 full papers and 21 short papers are presented in this book were carefully reviewed and selected from 33 submissions They focus on research and development in robotics computer vision and intelligent systems **Advanced Deep Learning Algorithms for Multi-Source Data and Imaging** Jicheng Wang,Haoyu Chen,2025-11-24 Deep learning technology has been widely applied to multi source data and imaging in the past decade It aims to handle multi modality data from different sources including images text audio and sensor data thereby facilitating seamless integration and interpretation of heterogeneous data for

downstream tasks such as image classification object detection medical imaging analysis etc Although the continuous development of deep learning algorithms for multi source data and imaging has brought significant progress to various fields there are still challenges in terms of learning efficiency generalization ability interpretability and transfer ability This Research Topic aims to bring together current research progress from both academia and industry on novel deep learning algorithms to address the challenges to multi source data and imaging Specifically three main objectives are as follows Pursue new discoveries and theoretical foundations in various areas such as computer vision data science biomedical engineering autonomous driving etc For example which deep learning frameworks can effectively process and fuse multi source data How to use deep learning algorithms to improve the accuracy and efficiency of imaging How to efficiently optimize multi modal imaging data Develop new deep learning algorithms and tools for multi source data and imaging For example how to design more efficient feature extraction and data fusion methods for multi source data with complex scenarios What innovative deep learning models are suitable for specific application scenarios such as environmental monitoring and disease diagnosis Explore the application and potential impact of these advanced deep learning algorithms in socioeconomic areas For example how can these technologies improve public health and personal health management How do they contribute to improving the quality and efficiency of medical services How to overcome ethical challenges while ensuring data privacy and interpretability This Research Topic focuses on the theory and applications of deep learning for multi source data and imaging aiming to establish a forum for researchers to share their achievements and discoveries We sincerely invite researchers to submit their original research article to explore advanced deep learning algorithms for multi source data and imaging The following topics are the specific interests of this special issue including but not limited to Deep learning Multimodal analysis Zero shot learning Representation learning Data fusion Reinforcement learning Medical image processing Transfer Learning

### **Artificial Intelligence in Food Science** Tanmay Sarkar, Anandakumar

Haldorai, 2025-08-01 Artificial Intelligence in Food Science Transforming Food and Bioprocess Development looks at the advancements in both AI and Machine Learning ML and the potential for leveraging these latest technologies to optimize and elevate various aspects of the food sciences From ingredient discovery and recipe formulation to flavor profiling quality control and bioprocess optimization Artificial Intelligence in Food Science Transforming Food and Bioprocess Development will show nutritionists food scientists and researchers and developers how they can enhance efficiency while innovating in their field Through data analysis predictive modelling case studies and industry examples of successful AI and ML implementation this book also highlights the benefits challenges and potential limitations of using AI and ML techniques while providing insights into best practices Readers will discover how AI and ML intersect with nutrition traceability and blockchain technology food waste valorization shelf life recipe and new product development food safety and more Explores how AI and ML intersect with food for enhanced nutritional outcomes Discusses incorporating robotics automation and IoT

into AI and ML driven food processes Highlights the use of AI and ML for flavor profiling and sensory analysis Leverages AI and ML for food waste analytics Addresses challenges and benefits of AI and ML in the food industry Real-time Defect Detection in Fruit Trever Gordon Crowe,1995 **Machine Vision Applications in Industrial Inspection** ,1996 **Paper Summaries, ASNT National Conferences** American Society for Nondestructive Testing. Conferences,1982 **Biosystems Engineering** ,2009 **Computer Vision for Industry** Don Braggins,1993 *Proceedings of the Seventh Symposium on Nondestructive Evaluation of Components and Materials in Aerospace, Weapons Systems and Nuclear Applications, April 23-25, 1969, San Antonio, Texas* ,1969 **Steelmaking Conference Proceedings** ,1987 Eighth International Conference on Quality Control by Artificial Vision David Fofi,Fabrice Meriaudeau,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Intelligent Robots and Computer Vision** ,1993 **Measurement and Effects of Surface Defects and Quality of Polish** Lionel R. Baker,Harold Earl Bennett,1985

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