

# Engineering Guruji

Department of Electronics & Communication Engineering

Viva - Voce Questions With Answers

Digital Image Processing

## 1. Illustrate the term 'Image'.

**Ans :** An image may be defined as two dimensional light intensity function  $f(x, y)$  where  $x$  and  $y$  denote spatial co-ordinate and the amplitude or value of  $f$  at any point  $(x, y)$  is called intensity or grayscale or brightness of the image at that point.

## 2. What is a digital image?

**Ans :** An image may be defined as two dimensional light intensity function  $f(x, y)$  where  $x$  and  $y$  denote spatial co-ordinate and the amplitude or value of  $f$  at any point  $(x, y)$  is called intensity or grayscale or brightness of the image at that point. When  $x, y$  and the amplitude values of  $f$  are all finite discrete quantities it is called a digital image.

## 3. What is a pixel?

**Ans :** digital image is composed of a finite number of elements, each of which has a particular location and value. These elements are referred to as picture elements, image elements, pels or pixels.

## 4. What are the applications of digital image processing?

**Ans :** Digital image processing is applied in the following fields

1. Remote sensing via satellite and spacecrafts
2. RADAR and SONAR
3. Biomedical applications-ECG,EEG,EMG etc.,
4. Robotics
5. Military applications
6. Astronomy etc.,

## 5. What are the steps involved in DIP?

**Ans :**



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**Bhabatosh Chanda,Dwijesh Dutta  
Majumder**

## **Pdf Download For Digital Image Processing For Viva:**

**British Journal of Photography** ,2009    **Digital Image Processing** Rafael C. Gonzalez, Richard Eugene Woods, 2008

A comprehensive digital image processing book that reflects new trends in this field such as document image compression and data compression standards The book includes a complete rewrite of image data compression a new chapter on image analysis and a new section on image morphology    **DIGITAL IMAGE PROCESSING.** RAJKUMAR.,2018    **DIGITAL**

**IMAGE PROCESSING** Joshi, Madhuri A.,2018-06-01 This introduction to the fundamental concepts and methodologies of image processing is suitable for first year postgraduate and senior undergraduate students in almost every engineering discipline and in particular meets the requirement of the prescribed courses in the streams Electronics and Communication Computer Science and Engineering Information Technology and Computer Applications The book now in its second edition continues to offer a balanced exposition of the basic principles and applications of image processing It lays considerable emphasis on the algorithmic approach in order to teach students how to write good practical programs for problem solving Major topics covered in the book include Image fundamentals Different image transforms Image enhancement in the spatial and frequency domains Restoration Image analysis Image description Image compression Image reconstruction from projections and Applications of image processing in the areas of biometrics speaker recognition satellite imaging medical imaging and many more The style of presentation is comprehensive and application oriented comprising examples diagrams image results case studies of applications and review questions making it easy for students to understand key ideas their practical relevance and applications NEW TO THIS EDITION Object representation recognition and classification MATLAB programs for image processing OpenCV programs for image processing    *Digital Image Processing with Matlab and Labview* Vipula Singh,2013    **Digital Image Processing** Oxford University Press,2018    **Principles of Digital Image**

**Processing** Dr. D. Rajasekhar, Dr. Rashmi, Mr. R.A. Manoj Kumar, S. Dhanalakshmi, 2024-10-18 Principles of Digital Image Processing the techniques and methodologies used in the manipulation and analysis of digital images The fundamental concepts of image representation enhancement restoration and transformation providing readers with a solid understanding of how digital images are processed The book emphasizes both theoretical principles and practical applications making it an essential resource for students researchers and professionals in the fields of computer vision machine learning and digital media    **VIVA** Steven L. Tanimoto, 1990 VIVA stands for VIualization of Vision Algorithms Its main purpose is to serve as an effective teaching tool for students of image processing Its design also takes account of several secondary goals including the completion of a software platform for research in human image interaction the creation of a vehicle for studying algorithms and architectures for parallel image processing and the establishment of a presentation medium for image processing algorithms    **Digital Image Processing** S Esakkirajan, T Veerakumar, Badri Narayan Subudhi, 2025-11-09

Digital image processing plays a crucial role in facilitating efficient storage transmission manipulation and retrieval of

images Python renowned for its open source nature and strong community support offers a user friendly platform with extensive image processing capabilities through libraries such as computer vision and scikit learn This textbook serves as a practical guide to digital image processing using Python presenting fundamental concepts techniques and algorithms with illustrative examples in Python Each chapter begins with clear learning objectives and concludes with exercises and multiple choice questions for self assessment Drawing from a diverse range of sources including research articles and books the references provided at the end of each chapter encourage further exploration Tailored for undergraduate and postgraduate students research scholars engineers and faculty specializing in image processing it assumes a foundational understanding of set theory matrix algebra probability and random variables *Digital Image Processing* Abhishek Yadav,Poonam

Yadav,2009 *An Introduction to Digital Image Processing* Wayne Niblack,1986 **Digital Image Processing and Analysis** CHANDA, BHABATOSH,MAJUMDER, DWIJESH DUTTA,2011-10-30 The second edition of this extensively revised and updated text is a result of the positive feedback and constructive suggestions received from academics and students alike It discusses the fundamentals as well as the advances in digital image processing and analysis both theory and practice to fulfil the needs of students pursuing courses in Computer Science and Engineering CSE and Electronics and Communication Engineering ECE both at undergraduate and postgraduate levels It is also considered useful for teachers professional engineers and researchers The second edition has three objectives First each and every chapter has been modified in the light of recent advances as well as emerging concepts Second a good deal of colour image processing has been incorporated A large number of line drawings and images have been included to make the book student friendly Third some new problems have been added in almost all chapters to test the student s understanding of the real life problems The other distinguishing features of the book are A summary at the end of the chapter to help the student capture the key points About 320 line drawings and 280 photographs for easy assimilation of the concepts Chapter end problems for extensive practice and research *Digital Image Processing and Analysis* Bhabatosh Chanda,Dwijesh Dutta Majumder,2004-02 *Digital Image Processing* Gregory A. Baxes,1988 *Digital Image Processing and Analysis* D D Majumder,2011

**Textbook Of Digital Image Processing** M. Anji Reddy; Y. Hari Shankar, *Digital Image Processing* Mr. Bandam Narendra,Mr. Gopala Krishna VB,Mr. Marsakatla Sundara Rao,Mr. N. Sateesh,2024-06-21 Digital Image Processing the fundamentals and advanced techniques used to analyze enhance and transform digital images It covers key concepts like image representation filtering segmentation restoration and compression This both the theoretical foundations and practical applications of image processing making it suitable for students and professionals in fields such as computer science engineering and applied sciences With a balance of algorithms examples and visual illustrations it provides readers with a comprehensive understanding of how digital images are processed and utilized in modern technology *Image Processing* Tinku Acharya,Ajoy K. Ray,2005-09-19 Image processing from basics to advanced applications Learn how to master image

processing and compression with this outstanding state of the art reference From fundamentals to sophisticated applications Image Processing Principles and Applications covers multiple topics and provides a fresh perspective on future directions and innovations in the field including Image transformation techniques including wavelet transformation and developments Image enhancement and restoration including noise modeling and filtering Segmentation schemes and classification and recognition of objects Texture and shape analysis techniques Fuzzy set theoretical approaches in image processing neural networks etc Content based image retrieval and image mining Biomedical image analysis and interpretation including biometric algorithms such as face recognition and signature verification Remotely sensed images and their applications Principles and applications of dynamic scene analysis and moving object detection and tracking Fundamentals of image compression including the JPEG standard and the new JPEG2000 standard Additional features include problems and solutions with each chapter to help you apply the theory and techniques as well as bibliographies for researching specialized topics With its extensive use of examples and illustrative figures this is a superior title for students and practitioners in computer science wireless and multimedia communications and engineering

### **Digital Image Processing : Practical**

**Implementation With MATLAB** Dr. A Chrispin Jiji,Dr. Y R Annie Bessant,Dr. S. Absa,Dr. S. Maria Seraphin

Sujitha,2023-12-30 The book Digital Image Processing Practical Implementation with MATLAB is strictly based on the syllabus prescribed by V T U mainly for the students of 7TH semester B E Electronics and Communication Engineering and Telecommunication Engineering It covers the theoretical and implementation using MATLAB This book deals with 5 Modules The first module deals with the fundamentals of Digital Image Processing The second module gives detailed information about Image Enhancement The third module deals with the methods of Image Restoration The fourth module gives detailed information about color wavelet and Morphological image Processing The fifth module deals with Segmentation Representation and Description

### **Color Image Processing**

Edoardo Provenzi,2018-05-22 This book is a printed edition of the Special Issue Color Image Processing that was published in J Imaging

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to open the notification panel drag the status bar down to close the notification panel swipe up on the screen to change the notification settings of an app tap settings apps

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