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art technology and information science combine into computer graphics and multimedia this book explores the parameters of the application problems and solutions related to digital disciplines contributing authors include computer scientists multimedia researchers computer artists graphic designers and digital media specialists

this book offers a timely review of modern technologies for health with a special emphasis on wireless and wearable technologies gis tools and machine learning methods for managing the impacts of pandemics it describes new strategies for forecasting evolution of pandemics optimizing contact tracing and for detection and diagnosis of diseases among others written by researchers and professionals with different backgrounds this book offers a extensive information and a source of inspiration for physiologists engineers it scientists and policy makers in the health and technology sector

facial recognition software has improved by leaps and bounds over the past few decades with error rates decreasing significantly within the past ten years though this is true conditions such as poor lighting obstructions and profile only angles have continued to persist in preventing wholly accurate readings face recognition in adverse conditions examines how the field of facial recognition takes these adverse conditions into account when designing more effective applications by discussing facial recognition under real world pie variations current applications and the future of the field of facial recognition research the work is intended for academics engineers and researchers specializing in the field of facial recognition

the encyclopedia of mathematical geosciences is a complete and authoritative reference work it provides concise explanation on each term that is related to mathematical geosciences over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on artificial intelligence big data compositional data analysis geomathematics geostatistics geographical information science mathematical morphology mathematical petrology multifractals multiple point statistics spatial data science spatial statistics and stochastic process modeling each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature the entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive

this book offers the latest research within the field of hais surveying the broad topics and collecting case studies future directions and cutting edge analyses investigating biologically inspired algorithms such as ant colony optimization and particle swarm optimization

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

this book considers classical and current theory and practice of supervised unsupervised and semi supervised pattern recognition to build a complete background for professionals and students of engineering the authors leading experts in the field of pattern recognition have provided an up to date self contained volume encapsulating this wide spectrum of information the very latest methods are incorporated in this edition semi supervised learning combining clustering algorithms and relevance feedback thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques many more diagrams included now in two color to provide greater insight through visual presentation matlab code of the most common methods are given at the end of each chapter more matlab code is available together with an accompanying manual via this site latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms an accompanying book with matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples including real life data sets in imaging and audio recognition the companion book will be available separately or at a special packaged price isbn 9780123744869 thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques many more diagrams included now in two color to provide greater insight through visual presentation matlab code of the most common methods are given at the end of each chapter an accompanying book with matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples and including real life data sets in imaging and audio recognition the companion book is available separately or at a special packaged price book isbn 9780123744869 package isbn 9780123744913 latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms solutions manual powerpoint slides and additional resources are available to faculty using the text for their course register at textbooks elsevier com and search on theodoridis to access resources for instructor

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