Dynamic replanning of 3D automated reconstruction using situation graph trees and illumination adjustment

3D digitizing path planning for part inspection with laser scanning

Simulation for an automation of 3D acquisition and post-processing

Overview of 3D registration techniques including loop minimization for the complete acquisition of large manufactured parts and complex environments

Quality control of transparent objects with polarization imaging

Automatic generation of image acquisition conditions for the quality control of specular surfaces

Measurement of the three-dimensional mirror parameters by polarization imaging applied to catadioptric camera calibration

Relief extraction of rough textured reflecting surface by image processing

A vision-based material tracking system for heavy plate rolling mills

Automated multiple view inspection of metal castings

Accurate length measurement of multiple cotton fibers

A method of mura intensity quantification using multi-level sliced images

Flaw detection on decorated glasses by color image processing

Optical spatial heterodyned interferometry for inspection of micro-electro-mechanical systems

Industrial applications of the wavelet and multiresolution-based signal-image processing: a review

Velocity measurement using motion blurred images to improve the quality of fertiliser spreading in agriculture

Simulation of agronomic images for an automatic evaluation of crop/weed discrimination algorithm accuracy

Development of a machine vision system for a real-time precision sprayer

Texture analysis with statistical methods for wheat ear extraction

Rational supershapes for surface reconstruction

Feature extraction and classification in surface grading application using multivariate statistical projection models

Optimizing signal and image processing applications using intel libraries

Robust speckle detection in ultrasound images: evaluation aspects

From medical data to simple virtual mock-up of scapula-humeral joint

Parametric active contour for weld defects boundary extraction in radiographic testing

A coarse-grained spectral signature generator

Optimization of illuminating system to detect optical properties inside a finger

Axis detection method for cylindrical objects

Reaction-diffusion applied to discrete distorted circles for industrial control

Analysis and evaluation of facial expression and perceived age for designing automotive frontal views

A hardware architecture for fast video object recognition using SVM and Zernike moments

Moving object detection based on correlation rate subtraction using local region template matching

A new simple algorithm for image processing in Shack-Hartmann wavefront sensing
Robust focusing by orientation code matching and its application to depth reconstruction

Quality assessment for color reproduction using a blind metric

Bubble structure evaluation method of sponge cake by suing image morphology

Visual inspection systems and human sensitivity

Non-negative matrix factorization : a study on influence of matrix sparseness and subspace distance metrics on image object recognition

A multistable cellular nonlinear network for quality control by visual inspection

A practical use of ROC analysis to assess the performances of defects detection algorithms

Enhancing accuracy of camera rotation angles detected by inaccurate sensors and expressing them in different systems for wide baseline stereo

Optical measurement system for the quality control of aeronautic parts : 3D measurement of circular holes and curved edges

Control of the visual and tactile aspects of poultry food according to the poultry food behavior by image analysis

Uranus : a rapid prototyping tool for FPGA embedded computer vision

Detection of surfaces for projection of texture

Local isoplanatism effects removal on infrared sequences

A method of local exposure compensation in color image using color histogram

Complex networks : application for texture classification

3D vision sensor and its algorithm on clone seedlings plant system

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.