



## QCAV2005

### Preliminary PROGRAM (May 18-20)

<b>Session (1): Food, Agriculture &amp; Forestry Products</b>	<b>15:20-17:25</b>	<b>WED, 18</b>
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Machine Vision for Quality Control of Tuna Meat

*A.Mateo, F.Soto, J.Roca, J.Suardiaz, J.A. Vera, and M.Jimenez*

Paper Coating Layer Analysis based on Computer Vision Methods

*M.Donosor, M.Wiltsche, H.Bischof, and W.Bauer*

Isometric feature mapping and local texture information in lumber grain analysis

*M.Turtinen, O.Silven, and M.Pietikainen*

A Fast Neural Network Based Automated Visual Inspection System for Quality Assessment within the Preserved Vegetables Manufacturing Industry

*J.S.Muro, P.J.Navarro, C.F.Andres, and A.M.Aroca*

A Study of Bread Taste Evaluation Method by Using Image Sequence Processing

*H.Tatebe, K.Kato, K.Yamamoto, and N.Ogawa*

<b>Session (2): Surface Inspection</b>	<b>15:20-17:25</b>	<b>WED, 18</b>
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Nanometric characterization of aspheric optical surfaces in calcium fluoride by multi-wavelength image processing.

*J.C.Pinoli, S.Gras, R.Y.Fillit, and B.Feraud*

Detection of Surface Cracks on Steel Wire using Thermo-inductive Method

*B.Oswald-Tranta, G.Wally, and P.O'Leary*

Automated Inspection of Textile Surfaces: Texture-Removing Approach

*H.Fujiwara, Z.Zhang, and H.Koshimizu*

Surface Wave Profile Measurement of Glass by Using Transmitted Shadow Image

*M.Kurumisawa*

Surface Roughness Estimation by Machine vision using Adaptive neuro-fuzzy inference system

*B.Dhanasekar and B.Ramamoorthy*

**Session (3): POSTER**

**11:00-12:30 THU, 19**

Crack Detection from Image of Inner Side of Drain by Using Variable-sized Directional Filter

*T.Hatada, K.Goto, F.Saitoh, T.Oosaka S.Numao, and N.Harimoto*

Adaptive Image Template Registration for Two-dimensional Image Matching

*K.Goto and F.Saitoh*

A New Object Detection Technique Based on Geometric Hashing

*L.Ma, K.Masuda, J.Sugano, and A.Yamaguchi*

Image Restoration Based on Smooth Gray Levels Detection and Line Prediction Method

*S.B.Yang and R.W.Tsai*

Adaptive Quad-trees for Event Detection at Multiple Resolutions

*C.P.McLaughlin, A.Yamada, and H.Hongo*

The Driver Monitor System by the Image Processing - Detection of Driver's Drowsiness by Blink Measurement -

*N.Yamamoto, K.Adachi, M.Ito, T.Nakano, and S.Yamamoto*

HUMAN-FRIENDLY INFORMATION DISPLAY IN ACCORDANCE WITH DEGREE OF URGENCY AND DRIVER ALERTNESS

*H.Ishigaki, K.Kato, S.Yamamoto, T.Nakano, and M.Kawasumi*

Development of Driving Simulator Equipped with Driver Monitoring System

*K.Okumura, H.Yamasaki, K.Kato, T.Nakano, and S.Yamamoto*

Real time Orthognathic Surgical Simulation by Entity Model Manipulation and 3D-image Display

*T.Shimonagayoshi, Y.Aoki, K.Fushima, and M.Kobayashi*

Personal Identification Based on Fingernail Image Evaluation Using Block Segmentation Matching

*M.Noda and F.Saitoh*

Detection of 3D-Flow using Height-Color-Histogram

*K.Aoki and H.Koshimizu*

Stereo Omni-directional System for Robot Vision and its Application to Moving Object Detection

*S.Shimizu, K.Yamamoto, C.Wang, Y.Satoh, H.Tanahashi, and Y.Niwa*

The proposal of the sufferer discovery vision system for the rescue robot

*M.Shimizu and K.Aoki*

3-D Measurement Method for Industrial Parts Using Rotary Vision System

*S.Hata, D.Shima, J.Hayashi, N.Higashi, and K.Kaida*

Markov Chain Models Based on the Genetic Algorithm for Texture Recognition

*S.B.Yang and Y.P.Huang*

Classification Rule Discovery Based on Relevant, Irredundant Attributes and Rule Expansion

*A.Kozuki and G.Lashkia*

<b>Session (4): Biomedical &amp; Human Sensing</b>	<b>13:30-15:10 THU, 19</b>
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A Method for Computer-based Analysis of Retinal Images

*T.Kondo*

Optimized Face Segmentation Method for Estimation of Facial Direction

*S.Naruse, K.Yamamoto, and K.Kato*

Human Action Mouse: A Vision Understanding Application in Human Computer Interaction

*X.Lu and S.Oe*

Real Time Multiple Face Detection and Tracking Method for a Meeting Capture

*K.Murai*

<b>Session (5): Semiconductor &amp; Devices</b>	<b>13:30-15:35 THU, 19</b>
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Automatic segmentation for visual inspection in semiconductor manufacturing using multiscale morphology

*A.N.Y.Ng, E.Y.Lam, R.Chung, K.S.M.Fung, and W.H.Leung*

Interpolation-based Absolute Gradient Matching and Its Application for LSI Wafer Inspection

*K.Takeda, S.Kaneko, T.Tanaka, K.Sakai, S.Maeda, and Y.Nakagawa*

Precise Stereo Measurement of Electronic Devices

*T.Watanabe, T.Fujiwara, and H.Koshimizu*

Classifier Combination on Features extracted From Complex images: Application to Defect Detection on Silicon Wafers

*F.Meriaudeau, P.Bourgeat, P.Gorria, and K.Tobin*

Optical Holographic Microscopy for Inspection and Metrology of Photolithographic Masks

*K.W.Tobin and P.R.Bingham*

**Session (6): Range Image Sensing & Processing** **15:55-18:00 THU, 19**

Design of an Intelligent Self-reasoning System for the Automated Vision-Based Evaluation of Manufactured Parts

*R.Khemmar, A.Lallement, and E.Hirsch*

Intelligent Approaches for Computer Vision-based Quality Control

*S.Kohler, A.B.Far, and E.Hirsch*

A New Proposal to Register Range Images

*C.Matabosch, J.Salvi, and D.Fofi*

Self-Calibration of a Trinocular Sensor with Imperceptible Structured Light and Varying Intrinsic Parameters

*T.Molinier, D.Fofi, and F.Meriaudeau*

Construction of a versatile compact range image sensor

*M.Tateishi and K.Umeda*

**Session (7): IMS-HUTOP II** **15:55-18:00 THU, 19**

A Survey of HUTOP-II: Prospecting The Future of Human-centered Production System

*T.Anezaki, S.Hata, and H.Koshimizu*

Development of a Flexible robot Technology for Supporting Cell-based Production

*T.Anezaki*

Total Support System for Visual Inspection

*S.Hata, T.Matsukubo, and Y.Sugino*

Percolation approach to Image-based crack detection

*T.Yamaguchi, K.Suzuki, P.Hartono, and S.Hashimoto*

Proposal of Visual Recognition System based on Machine Learning Method

*M.Yanase, Y.Ueda, S.Yamamoto, T.Iden, Y.Shigeyama, and A.Nakamura*

Hierarchical Face and Facial Parts Tracking and Some Applications

*T.Funahashi, T.Fujiwara, M.Tominaga, and H.Koshimizu*

**Session (8): Multimedia & KANSEI** **10:00-12:05 FRI, 20**

Using a Standard Color Camera to Correct Spatial Colorimetric Variation in Videoprojector Display

*P.Gouton, L.Peigne, G.Menu, and J.Y.Hardeberg*

VISION SYSTEM PERFORMANCE IMPROVEMENT WITH DESIGN OF EXPERIMENTS

*C.Muruganantham, N.Jawahar, B.Ramamoorthy, and T.Bharath*

Measuring Human Ability on Visual Kansei by Semantic Differential Method

*K.Nishina and S.Niwa*

e-Learning Content Adaptation for the Universal Accessibility

*K.Y.Hun, L.S.Wook, and M.K.Ae*

Quality of Multimedia Contents –Interactions between Pictures and Music of TV Commercials-

*A.Takashima, N.Hasegawa, and N.Nagata*

**Session (9): Image Processing for Inspection** **10:00-11:40 FRI, 20**

A Defect Detection Method Using Feature Space

*T.Kashiwagi and S.Oe*

DESIGN AND IMPLEMENTATION OF AUTOAMATED BOLT INSPECTION SYSTEM -A CASE STUDY

*C.Muruganantham, N.Jawahar, G.S.P.Kumar, K.B.Ragavendran, N.Alagesan, and V.Sarathy*

Characterization of paper mottle by image processing

*F.Mairesse, Y.Voisin, F.Marzani, M.Dube, and J.P.Boisvert*

Mechanical Parts Recognition from Uneven Environment

*K.Yamaashi, T.Fujiwara, and H.Koshimizu*

**Session (10): Vision System & Technology**

**13:30-15:10 FRI, 20**

New defect detection method using scattered radiation

*M.K.Nguyen, T.T.Truong, J.Blanc-Talon, and L.Pigois*

Multispectral Image Acquisition and Spectral Reflectance Reconstruction: Application to Plant Detection

*A.Mansouri, C.Gee, J.P.Guillemain, F.S.Marzani, and P.Gouton*

A Multiple View Elastic Modeling Using Touch Pressure Sensor

*T.Kimura, H.Ohki, K.Gyohten, and N.Sueda*

Round-Scope: A Prototype System of the Blind Spot Compensation

*N.Yamaguchi, T.Ooishi, A.Kogiso, N.Tamori, and A.Shiomi*

**Session (11): Theory & Pattern Recognition**

**13:30-15:10 FRI, 20**

A Novel Approach to Learning Based on Conflict Discovery

*G.V.Lashkia and L.Anthony*

Query by Low-level Image Content

*M.Yoshimura, N.Kawamura, and S.Abe*

A Proposal of Threshold Selection Method for OK-Quantization Method

*M.Numada, H.Koshimizu, T.Nomura, and K.Kamiya*

A Relationship between OK-Quantization and Sampling Theorem and Its Experimental Consideration

*Y.Tanaka, T.Fujiwara, H.Koshimizu, and T.Iijima*