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**Fabrice Meriaudeau
Olivier Aubreton**
Editors

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The CID Number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages.

Contents

- vii *Authors*
- ix *Conference Committee*
- xi *Introduction*

SESSION 1 NONCONVENTIONAL IMAGING

- 9534 02 **Real time polarization imaging of weld pool surface** [9534-46]
- 9534 03 **Semi-automatic classification of cementitious materials using scanning electron microscope images** [9534-22]
- 9534 04 **Standing tree decay detection by using acoustic tomography images** [9534-77]

SESSION 2 COLOR AND TEXTURE

- 9534 05 **Alternative to colour feature classification using colour contrast occurrence matrix** [9534-11]
- 9534 06 **Syntactic texture and perception for a new generic visual anomalies classification** [9534-40]
- 9534 07 **A polynomial texture extraction with application in dynamic texture classification** [9534-63]
- 9534 08 **Print spectral reflectance estimation using trichromatic camera** [9534-17]

SESSION 3 MEDICAL IMAGING AND BIOMEDICAL IMAGING I

- 9534 09 **Automatic classification of skin lesions using color mathematical morphology-based texture descriptors** [9534-3]
- 9534 0A **A boosting approach for prostate cancer detection using multi-parametric MRI** [9534-25]
- 9534 0B **Joint detection of anatomical points on surface meshes and color images for visual registration of 3D dental models** [9534-41]

SESSION 4 MEDICAL IMAGING AND BIOMEDICAL IMAGING II

- 9534 0C **Breast ultrasound image segmentation: an optimization approach based on super-pixels and high-level descriptors** [9534-56]
- 9534 0D **Innovative, non-contact wide field imaging of corneal endothelium** [9534-15]

- 9534 OE **Characterization of the corneal endothelial mosaic and comparison with simulated tessellations modeled with Gaussian random fields** [9534-45]
- 9534 OF **Hardware implementation of fast pupil segmentation using region properties** [9534-67]

SESSION 5 MACHINE VISION I

- 9534 OG **Automatic grading of carbon blacks from transmission electron microscopy** [9534-64]
- 9534 OH **Automated visual grading of grain kernels by machine vision** [9534-28]
- 9534 OI **CAD-guided inspection of aeronautical mechanical parts using monocular vision** [9534-84]

SESSION 6 MACHINE VISION II

- 9534 OJ **Vision based tunnel inspection using non-rigid registration** [9534-92]
- 9534 OK **Local surface orientation analysis based on reflection estimation** [9534-30]
- 9534 OL **A machine vision based approach for timber knots detection** [9534-24]

SESSION 7 MULTISPECTRAL AND INFARED IMAGING

- 9534 OM **Cocoa bean quality assessment by using hyperspectral images and fuzzy logic techniques** [9534-5]
- 9534 ON **Vector anisotropic filter for multispectral image denoising** [9534-14]
- 9534 OO **Design and calibration of a two-camera (VNIR and SWIR) hyperspectral acquisition system for the characterization of metallic alloys from the recycling industry** [9534-37]
- 9534 OP **An efficient method for facial component detection in thermal images** [9534-21]
- 9534 OQ **Suspicious activity recognition in infrared imagery using Hidden Conditional Random Fields for outdoor perimeter surveillance** [9534-76]

SESSION 8 METHODS

- 9534 OR **Noise removal and real-time detail enhancement of high-dynamic-range infrared images with time consistency** [9534-71]
- 9534 OS **Improvement of HMM-based action classification by using state transition probability** [9534-51]
- 9534 OT **Novel image fusion scheme based on maximum ratio combining for robust multispectral face recognition** [9534-89]

SESSION 9 COMPUTER VISION AND 3D

- 9534 0U **A coarse to fine 3D acquisition system** [9534-68]
- 9534 0V **A four-lens based plenoptic camera for depth measurements** [9534-38]
- 9534 0W **A self-diagnosis under 2D projectivity for local descriptor base template matching**
[9534-87]
- 9534 0X **A comparative study of multi-sensor data fusion methods for highly accurate assessment
of manufactured parts** [9534-48]
- 9534 0Y **Automated visual inspection of an airplane exterior** [9534-35]
- 9534 0Z **Online fully automated three-dimensional surface reconstruction of unknown objects**
[9534-62]

SESSION 10 NONDESTRUCTIVE TESTING

- 9534 10 **Interactive ultrasonic field simulation for nondestructive testing** [9534-53]
- 9534 11 **Tiled fuzzy Hough transform for crack detection** [9534-75]
- 9534 12 **Prediction of fracture profile using digital image correlation** [9534-74]

POSTER SESSION

- 9534 13 **Robust crack detection strategies for aerial inspection** [9534-82]
- 9534 14 **A stable and unsupervised Fuzzy C-Means for data classification** [9534-4]
- 9534 15 **Ensemble approach for differentiation of malignant melanoma** [9534-31]
- 9534 16 **Intrinsic camera calibration equipped with Scheimpflug optical device** [9534-10]
- 9534 17 **High dynamic range adaptive real-time smart camera: an overview of the HDR-ARTIST
project** [9534-57]
- 9534 18 **Hierarchical human action recognition around sleeping using obscured posture
information** [9534-65]
- 9534 19 **Calibration of asynchronous smart phone cameras from moving objects** [9534-93]

WORKSHOP ON PHOTOMETRIC STEREO: FROM THEORY TO INDUSTRIAL APPLICATIONS

- 9534 1A **Real time swallowing measurement system by using photometric stereo** [9534-29]
- 9534 1B **Analysis of surface parametrizations for modern photometric stereo modeling** [9534-36]
- 9534 1C **Some illumination models for industrial applications of photometric stereo** [9534-83]
- 9534 1D **Photometric stereo sensor for robot-assisted industrial quality inspection of coated composite material surfaces** [9534-16]
- 9534 1E **MATLAB toolbox for the regularized surface reconstruction from gradients** [9534-44]
- 9534 1F **Perspective photometric stereo beyond Lambert** [9534-52]

WORKSHOP APPLICATIONS OF THERMOGRAPHY IN INSPECTION CONTEXT

- 9534 1G **3D and NDT using scanning from heating** [9534-66]
- 9534 1H **Outdoor thermal monitoring of large scale structures by infrared thermography integrated in an ICT based architecture** [9534-95]
- 9534 1I **A comparative study of in-situ measurement methods of a building wall thermal resistance using infrared thermography** [9534-97]
- 9534 1J **Temperature measurement by IR camera of heated device to high temperature during a short time** [9534-99]
- 9534 1K **Glued structures inspection based on lock-in thermography** [9534-101]
- 9534 1L **Applications of the thermography in the animal production** [9534-102]

Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Aberra Guebro, S., 0D
Aigueperse, Antoine, 0Z
Albouy-Kissi, Benjamin, 0B
Aldea, Emanuel, 13
Al-Habaibeh, Amin, 11
Aoki, Yoshimitsu, 18
Arciniegas, Andres F., 04
Aruga, Haruki, 0S
Aubretton, O., 02, 0U, 1G
Augereau, B., 07
Autrique, Laurent, 1K
Averty, Rodolphe, 1H
Babu Rao, C., 12
Badshah, Amir, 0J
Barmaimon, Daniel, 19
Barnabé, Pierre, 0O
Belkacemi, M., 1G
Ben Said, Ahmed, 0N
Bernard, A., 0D
Bharti, Vibhav, 19
Blanik, Nikolai, 0P
Blazek, Vladimir, 0P
Brancheriau, Loïc, 04
Breuß, Michael, 1F
Bringier, Benjamin, 08
Bugarin, F., 0I
Candau, Yves, 1I
Cariou, Claude, 14
Chaitanya, G. M. S. K., 12
Chandrakumar, Chanjief, 11
Chanussot, J., 03
Chatillon, Sylvain, 10
Chehdi, Kacem, 14
Clark, Daniel, 19
Colicchio, Bruno, 0V
Coniglio, N., 02
Cornille, N., 0I
Cortes, Yolima, 04
Cremers, Daniel, 1B
Crinière, Antoine, 1H
Cudel, Christophe, 0V
Dalla Mura, M., 03
Daval, V., 0U
Debayle, Johan, 09
Deng, Zhiyuan, 0V
Désage, Simon-Frédéric, 06
Destrez, Raphaël, 0B
Devy, Michel, 0H
Dhali, Maruf Ahmed, 19
Díaz, Immaculada, 1L
Dislaire, Godefroid, 0O
Drumetz, L., 03
Dubosclard, Pierre, 0H
Dumoulin, Jean, 1H
Durou, Jean-Denis, 1C
Duvieubourg, Luc, 16
Edard, Pierrick, 1J
Eitzinger, Christian, 1D
El Moubtahij, R., 07
Espinosa, Luis F., 04
Fasogbon, Peter, 16
Fauvet, Eric, 0K
Favrelière, Hugues, 06
Fernandez-Maloigne, C., 05, 07
Fertil, Bernard, 09
Feuillet, Vincent, 1I
Fofi, David, 0Z
Foufou, Sebti, 0N, 0T
Fougerolle, Yohan, 0Z
Freixenet, Jordi, 0A
Frelin, Fabrice, 06
Fujino, Masahiro, 1A
Gain, P., 0D
Garcia, Frederic, 0R
Garcia, Rafael, 15
Gaudy-Marqueste, Caroline, 09
Gavet, Yann, 0D, 0E
Gilblas, Rémi, 0Y
Ginhac, Dominique, 17
Gomez, E., 0G
Gonzalez-Castro, Victor, 09
Granda, Guillermo, 0M
Grob, Jean-Jacques, 09
Gyohten, Keiji, 0W
Hadjidj, Rachid, 0N
Haeberlé, Olivier, 0V
Hagen, Oksana, 19
Hannachi, Ammar, 0X
Harker, Matthew, 1E
Harouna S., Aboubacar, 08
Hashimoto, Manabu, 0S
He, Z., 0D
Herbulot, Ariane, 0H
Heyrman, Barthélémy, 17
Hirsch, Ernest, 0X
Hittawe, Mohamad Mazen, 0L
Houssineau, Jérémie, 19
Ibos, Laurent, 1I

Ioannidis, Dimosthenis, 0Q
 Ipanaque, William, 0M
 Istenič, Klemen, 19
 Jayakumar, T., 12
 Jovančević, Igor, 0Y
 Judic, Jean-Pierre, 1J
 Kamal, Khurram, 11
 Kato, Kunihiro, 1A
 Khalfaoui, Souhaïel, 0Z
 Khan, Muhammad A. U., 0F
 Khan, Taiq M., 0F
 Khanian, Maryam, 1F
 Khoudeir, Majdi, 08
 Kimura, Tokihiro, 0W
 Kitamura, Yuka, 0S
 Kohler, Sophie, 0V, 0X
 Kong, Yinan, 0F
 Konik, Hubert, 0H
 Kudo, Yuta, 18
 Kumar, Anish, 12
 Lacassagne, Lionel, 10
 Lacaze, Pierre-Antoine, 16
 Laligant, Olivier, 0K
 Lallement, Alex, 0X
 Lambert, Jason, 10
 Lapray, Pierre-Jean, 17
 Larnier, Stanislas, 0H
 Lauffenburger, Jean-Philippe, 0V
 Le Goïc, Gaëtan, 06
 le Hégarat, Sylvie, 13
 Lemaître, Guillaume, 0A, 0C
 Leonhardt, Steffen, 0P
 Leroy, Sophie, 0O
 Likothanassis, Spiros, 0Q
 Lombard, S., 03
 Lu, Qinglin, 0K
 Lucas, Yves, 0B
 Luengo, L., 0G
 Macaire, Ludovic, 16
 Machacuay, Jorge, 0M
 Maire, Jean-Luc, 06
 Manso, Alberto, 1L
 Martí, Joan, 0C
 Martí, Robert, 0A
 Martínez, R. A., 05
 Marzani, Franck, 15
 Massich, Joan, 0A, 0C
 Mathavan, Senthana, 11
 Mathieu, A., 02
 Mecca, Roberto, 1B
 Mériaudeau, Fabrice, 0A, 0C, 0L
 Meulenyzer, S., 03
 Mirbach, Bruno, 0R
 Monchau, Jean-Pierre, 11
 Montalvo, Gema, 1L
 Morales, Joaquín, 1L
 Morel, Olivier, 15
 Mura, Emi, 1A
 Nagai, Hajime, 1A
 Naigeon, N., 0D
 Ohki, Hidehiro, 0W
 O'Leary, Paul, 1E
 Omri, F., 0T
 Orteu, Jean-José, 0I, 0Y
 Pataia, G., 0D
 Paul, Michael, 0P
 Perez, Laetitia, 1K
 Pillet, Maurice, 06
 Piñeiro, Carlos, 1L
 Pinoli, Jean-Charles, 0D, 0E
 Pirard, Eric, 0O
 Pitard, Gilles, 06
 Prieto, Flavio A., 04, 0M
 Purnachandra Rao, B., 12
 Quéau, Yvain, 1C
 Rahim, Mehdi, 09
 Rahman, Mujib, 11
 Rannou, Klervi, 0E
 Rastgoo, Mojdeh, 15
 Richard, N., 05
 Riou, Cécile, 0V
 Rodolà, Emanuele, 1B
 Rogotis, Savvas, 0Q
 Rougeron, Gilles, 10
 Samper, Serge, 06
 Sashida, Takehiko, 18
 Sasi, B., 12
 Schockaert, Cedric, 0R
 Sentenac, Thierry, 0Y
 Seulin, Ralph, 0Z
 Shahzad, Danish, 0J
 Sharifi Boroujerdi, Ali, 1F
 Sidibé, Désiré, 0A, 0L
 Sonneck-Museux, Nathanaëlle, 1J
 Soto, Juan, 0M
 Stöger, Matthias, 1D
 Stolz, C., 02, 1G
 Sueda, Naomichi, 0W
 Taher, Akar, 14
 Tairi, H., 07
 Taniguchi, Rin-ichiro, 0W
 Thuret, G., 0D
 Treuillet, Sylvie, 0B, 0G
 Truchetet, F., 0U
 Tzovaras, Dimitrios, 0Q
 Ullah, Shan, 0J
 Vaheesan, Kanapathippillai, 11
 Vergé, Philippe, 1J
 Viana, I., 0I
 Vilanova, Joan C., 0A
 Vizcaino, Elena, 1L
 Walker, Paul M., 0A
 Wazaefi, Yanal, 09
 Weigl, Eva, 1D
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Introduction

Researchers from the Le2i, Laboratory of Electronics, Computer Science and Computer Vision (France), Le Creusot, are proud to host the Twelfth International Conference on Quality Control by Artificial Vision in Le Creusot. Since its launch in 1993, where the first edition was held in Le Creusot, the conference has traveled worldwide. It has been organized in the following places: Le Creusot, France in 1995, 1997, 2001, 2007; Japan in 1998, 2005 and 2013; Canada in 1999; the United States in 2003; Austria 2009, and Saint Étienne, France in 2011. QCAV is now back for its twentieth International anniversary to the city where it was born.

This year, in parallel with the conference, two workshops were held. One dealt with photometric stereo (organized by J. R. Durou and Y. Quéau), and one related to the applications of thermography in inspection context (organized by L. Autrique and L. Pérez).

Thus as a whole, fifty-six papers were selected from among seventy-eight submissions by the International Committee (seven of which were from the poster session) from: Austria, Australia, Qatar, France, Japan, Pakistan, United Kingdom, Spain, Columbia, Germany, Greece, India, Luxembourg, Morocco, Peru, Belgium, Sri Lanka, Saudi Arabia, Mexico, and Italy.

This year, the conference was honored with the presence of three renowned guest speakers: Prof. François Goudail, Graduate School (France) Prof. E. Trucco, University of Dundee (Scotland) and Prof. J. Chanussot, GIPSA-Laboratory Grenoble, Institut Universitaire de France (France), who delivered a talk in each of our main tracks: Non Conventional Imaging Systems, *Track Chair C. Stolz (France)*, Machine Vision, *Track Chair K. Niel (Austria)*, and Computer Aided Diagnosis, *H. Mueller (Switzerland)*.

It is also our pleasure to announce a special issue of the Journal of Electronic Imaging published by SPIE, with guest editors Assoc. Prof. A. S. Malik, Universiti Teknologi Petronas (Malaysia) and Prof. F. Meriaudeau, Le2i, Université de Bourgogne (France), dedicated to QCAV and featuring selections based on the best papers presented at the conference, among other submissions.

We also would like to thank our partners and sponsor for the support of this conference: Le Site du Creusot: IUT Le Creusot et Centre Universitaire Condorcet (France); Université de Bourgogne (France); CNRS (France); La Ville du Creusot (France); La communauté Urbaine Creusot-Montceau (France); and Conseil Régional de Bourgogne (France).

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