

Contents

INDUSTRIAL IMAGE PROCESSING

Invited Papers

- Davies E.R.** A generalised approach to the use of sampling for rapid object location7
- Schauland S., Velten J. and Kummert A.** Detection of moving objects in image sequences using 3D velocity filters 21
- Wejrzanowski T., Spychalski W.L, Roźniatowski K. and Kurzydłowski K.J.** Image based analysis of complex microstructures of engineering materials33

Regular Papers

- Skubalska-Rafajłowicz E.** Local correlation and entropy maps as tools for detecting defects in industrial images41
- Rafajłowicz E., Pawlak M. and Steland A.** Nonlinear image processing and filtering: a unified approach based on vertically weighted regression49

MEDICAL IMAGE PROCESSING

Invited Paper

- Li Y., Kummert A., Boschen F. and Herzog H.** Interpolation-based reconstruction methods for tomographic imaging in 3D positron emission tomography 63

Regular Papers

- Jeleń Ł., Fevens T. and Krzyżak A.** Classification of breast cancer malignancy using cytological images of fine needle aspiration biopsies 75
- Smereka M. and Dulęba I.** Circular object detection using modified Hough transform 85

OTHER TOPICS

- Xin Y. and Pawlak M.** M-ary Phase Modulation for Digital Watermarking93
- Wnuk M.** Remarks on hardware implementation of image processing algorithms 105

