

## Table of Contents

### Artificial Intelligent Methods for Clinical Aspects

Artificial Social System Models of Medical.....1 <i>Calin Ciufudean and Otilia Ciufudean</i>	1
Autonomous neuroClustering of Pathologic Oscillations Using Discretized Cetroids.....12 <i>Rory Lewis, Chad A. Mello, Amy Brooks-Kayal, Jessica Carlsen, Heidi Grabenstatter, and Andrew M. White</i>	12
Flu Outbreak Detection Using Summarized Twitter Messages .....24 <i>Brent Wenerstrom, Elaheh Arabmakki, Mehmed Kantardzic, and Musa Hidi</i>	24

### Image Interpretation for Veterinary and Agricultural Aspects

Development of an Early Warning System for a Broiler House Using Image Interpretation.....37 <i>Mohammadamin Kashiha, Arno Pluk, Claudia Bahr, Erik Vranken and Daniel Berckmans</i>	37
Automatic Identification of Marked Pigs in a Pen Using Image Pattern Recognition .....46 <i>Mohammadamin Kashiha, Claudia Bahr, Sanne Ott, Christel P.H. Moons, Theo A. Niewold, Frank Odberg, and Daniel Berckmans</i>	46
PhysicoChemical Parameters for Obtaining Prediction Models in the Postharvest Quality of toMatoes ( <i>Solanum Lycopersicum</i> L.).....54 <i>Guillermo Niño-Medina, Jessica Cecilia Rivera-Castro, Juan Antonio Vidales-Contreras, Humberto Rodriguez-Fuentes and Alejandro Isabel Luna- Maldonado</i>	54
Optimal preprocessing of Mid InfraRed spectra. Application to classification of lignocellulosic biomass: maize roots and miscanthus internodes.....67 <i>Abbas Rammal, Eric Perrin, Brigitte Chabbert, Isabelle Bertrand, Georgiana Mihai, and Valeriu Vrabie</i>	67

## **Biometry and Image-Based Diagnosis for Predicting Health Status**

On applying signals of saccade eye movements for biometric verification  
of a subject .....78  
*Yoming Zhang and Martti Juhola*

Image Acquisition and Detection of the Iris for Iridiology .....93  
*Petra Perner*

## **Image Segmentation for different Aspects**

Wavelet Discrimination for Texture Image Segmentation.....109  
*Jing-Wein Wang and Tzu-Hsiung Chen*

A Region Growing based Mammogram Segmentation using Multi Resolution  
Analysis.....118  
*J. Anitha and Dr. J. Dinesh Peter*

## **Speech Recognition**

Human Speech Recognition (SR) and A New Feature Extraction  
Technique for SR System .....130  
*Sheuli Paul and Michael Richter*

## **Poster**

Gait Recognition using Moments.....144  
*Jyoti Bharti, Bimi Jain, Dr. M. K. Gupta, and Navneet Manjh*

**Author Index**.....157