

## Table of Contents

Page

---

2D Image Segmentation Through the One Dimensional Mumford-Shah Functional.....	9
<i>A. Lizbeth Cortés Cortes, Carlos Guillén Galván, Rafael Lemuz López, Juan Escamilla Reyna</i>	
Speech Synthesis Based on Hidden Markov Models and Deep Learning .....	19
<i>Marvin Coto-Jiménez, John Goddard-Close</i>	
Model-based Algorithm for Belief Revisions between Normal Conjunctive Forms .....	29
<i>Alma Delia García, Guillermo De Ita, Fernando Zacarias</i>	
Thresholding Approach based on GPU for Facial Expression Recognition.....	41
<i>Jesús García-Ramírez, J. Arturo Olvera-López, Ivan Olmos-Pineda, Georgina Flores-Becerra, Adolfo Aguilar-Rico</i>	
Mathematical Modelling of the Cardiovascular System Haemodynamics .....	53
<i>Anabel Hernández-Ramírez, Andrés Fraguera-Collar, Rafael Lemuz-López</i>	
Impulsive Noise Removal by Adaptive Mathematical Morphology .....	65
<i>Marisol Mares Javier, Carlos Guillén Galván, Rafael Lemuz López</i>	