

## Table of contents

A Novel Multimodal Emotion Recognition Approach for Affective Human Robot Interaction .....	1
<i>Felipe Cid, Luis J. Manso and Pedro Núñez</i>	
A Multi-modal Approach for Assistive Humanoid Robots .....	10
<i>German I. Parisi, Johannes Bauer, Erik Strahl and Stefan Wermter</i>	
An Intelligent Application Development Platform for Service Robots .....	16
<i>Y. Sugawara, T. Morita, S. Saito and T. Yamaguchi</i>	
Multimodal binding of parameters for task-based robot programming based on semantic descriptions of modalities and parameter types .....	22
<i>Alexander Perzylo, Nikhil Soman, Stefan Profanter, Markus Rickert and Alois Knoll</i>	
Connecting natural language to task demonstrations and low-level control of industrial robots .....	25
<i>Maj Stenmark, Jacek Malec</i>	
Perceptive Parallel Processes Coordinating Geometry and Texture .....	30
<i>Marco A. Gutierrez, Rafael E. Banchs and Luis F. D'Haro</i>	
NVIDIA Jetson for Embedded	
How high-performance and low-energy computing systems for deep learning and computer vision can help Robotics .....	36
<i>Serge Palaric</i>	
Robotic Vision: Understanding Improves the Geometric Accuracy .....	38
<i>Javier Civera</i>	
SP1: Stereo Vision in Real Time .....	40
<i>Konstantin Schauwecker</i>	