

Contents

A Neurocognitive Robot Assistant for Robust Event Detection	1
German I. Parisi and Stefan Wermter	
Smart Robot Control via Novel Computational Intelligence Methods for Ambient Assisted Living	29
Bo Xing	
Valorization of Assistive Technologies for Cognition: Lessons and Practices	57
Stéphanie Pinard, Kevin Bouchard, Yannick Adeline, Véronique Fortin, Hélène Pigot, Nathalie Bier and Sylvain Giroux	
Safe and Automatic Addition of Fault Tolerance for Smart Homes Dedicated to People with Disabilities	87
Sébastien Guillet, Bruno Bouchard and Abdenour Bouzouane	
Smart Homes in the Era of Big Data	117
Kevin Bouchard, Sebastien Gaboury, Bruno Bouchard, Abdenour Bouzouane and Sylvain Giroux	
An Investigation of the Use of Innovative Biology-Based Computational Intelligence in Ubiquitous Robotics Systems: Data Mining Perspective	139
Bo Xing	
Ambient Stupidity	173
Jordi Vallverdú	

Security Implementations in Smart Sensor Networks 187
Mohamed Fazil Mohamed Firdhous

Automatic Music Composition from a Self-learning Algorithm 223
Michele Della Ventura

Trends in Ambient Intelligent Systems

The Role of Computational Intelligence

Ravulakollu, K.K.; Khan, M.A.; Abraham, A. (Eds.)

2016, X, 234 p. 71 illus., 47 illus. in color., Hardcover

ISBN: 978-3-319-30182-2