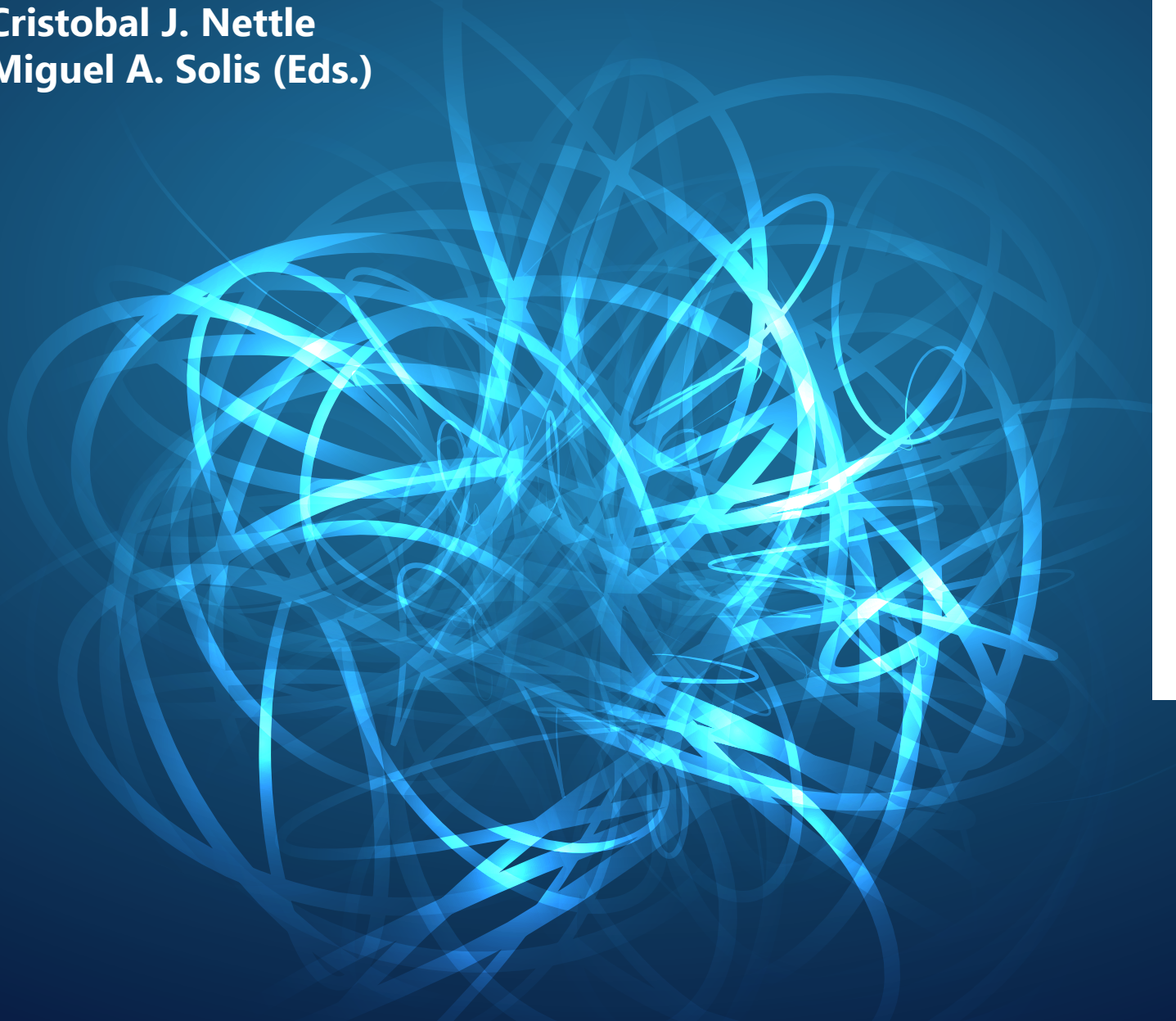


Cristobal J. Nettle
Miguel A. Solis (Eds.)

Congress Proceedings



**Proceedings of the 4th
Congress on Robotics
and Neuroscience**



November 15-17, 2018

VALPARAÍSO, CHILE

*Cristóbal J. Nettle,
Miguel A. Solis (Eds.)*

Proceedings of the 4th Congress on Robotics and Neuroscience

NOVEMBER 15-17, 2018

*Valparaíso, Chile
Congress Proceedings*

Volume Editors

Cristóbal J. Nettle, M.Sc. on Electronics
Treasurer and Researcher at Centro de Innovación y Robótica, Chile
cristobal.nettle@innovacionyrobotica.com

Miguel A. Solis, Dr.-Eng. on Informatics
General Secretary and Researcher at Centro de Innovación y Robótica, Chile
Academic at Universidad Católica del Norte, Chile
miguel.solis@innovacionyrobotica.com

ISBN: 978-956-09282-0-7.

Copyright ©2019 for the individual papers by the papers' authors.
Copying permitted only for private and academic purposes. This
volume is published and copyrighted by its editors.

Contents

<i>Preface</i>	6
<i>F. Ollino, M.A. Solis, H. Allende</i> <i>Batch Reinforcement Learning on a RoboCup Small Size League Keepaway</i> <i>Strategy Learning Problem</i>	11
<i>F. Torres</i> <i>Trending Topics on Science, a Tensor Memory Hypothesis Approach</i>	18
<i>R. Alfaro, M. Aubel, P. Yañez, et al.</i> <i>AIS: Artificial Intelligent Soccer</i>	25
<i>C. Angel, C.J. Nettle</i> <i>A Theoretical Strategy for Enhancing Learning Through Metacognitive Practices</i> <i>on a Constructivist Methodology</i>	32
<i>M.M. Vallejo-Jiménez, J.J. Martínez-Puerta, S. Bedoya-Agudelo et al.</i> <i>SENA Tecnoacademia Risaralda and Caldas as a Collaborative Learning</i> <i>Scenario in Robotics</i>	39
<i>O.A. Silva, P. Sigel, W. Eaton et al.</i> <i>CRABOT: A Six-legged Platform for Environmental Exploration and</i> <i>Object Manipulation</i>	46
<i>Author Index</i>	53