

# Contents

<b>1</b>	<b>Application of Machine-Learning Methods to Understand Gene Expression Regulation</b> .....	<b>1</b>
	Chao Cheng and William P. Worzel	
<b>2</b>	<b>Identification of Novel Genetic Models of Glaucoma Using the “EMERGENT” Genetic Programming-Based Artificial Intelligence System</b> .....	<b>17</b>
	Jason H. Moore, Casey S. Greene and Douglas P. Hill	
<b>3</b>	<b>Inheritable Epigenetics in Genetic Programming</b> .....	<b>37</b>
	William La Cava and Lee Spector	
<b>4</b>	<b>SKGP: The Way of the Combinator</b> .....	<b>53</b>
	William P. Worzel and Duncan MacLean	
<b>5</b>	<b>Sequential Symbolic Regression with Genetic Programming</b> .....	<b>73</b>
	Luiz Otávio V.B. Oliveira, Fernando E.B. Otero, Gisele L. Pappa and Julio Albinati	
<b>6</b>	<b>Sliding Window Symbolic Regression for Detecting Changes of System Dynamics</b> .....	<b>91</b>
	Stephan M. Winkler, Michael Affenzeller, Gabriel Kronberger, Michael Kommenda, Bogdan Burlacu and Stefan Wagner	
<b>7</b>	<b>Extremely Accurate Symbolic Regression for Large Feature Problems</b> .....	<b>109</b>
	Michael F. Korn	
<b>8</b>	<b>How to Exploit Alignment in the Error Space: Two Different GP Models</b> .....	<b>133</b>
	Mauro Castelli, Leonardo Vanneschi, Sara Silva and Stefano Ruberto	

<b>9</b>	<b>Analyzing a Decade of Human-Competitive (“HUMIE”) Winners: What Can We Learn? . . . . .</b>	<b>149</b>
	Karthik Kannappan, Lee Spector, Moshe Sipper, Thomas Helmuth, William La Cava, Jake Wisdom and Omri Bernstein	
<b>10</b>	<b>Tackling the Boolean Multiplexer Function Using a Highly Distributed Genetic Programming System . . . . .</b>	<b>167</b>
	Hormoz Shahrzad and Babak Hodjat	
	<b>Index . . . . .</b>	<b>181</b>

Genetic Programming Theory and Practice XII

Riolo, R.; Worzel, B.; Kotanchek, M. (Eds.)

2015, XII, 182 p. 59 illus., 12 illus. in color., Hardcover

ISBN: 978-3-319-16029-0