

Table of Contents

I Basics

What Is a Learning Classifier System?	3
<i>J.H. Holland, Lashon B. Booker, Marco Colombetti, Marco Dorigo, David E. Goldberg, Stephanie Forrest, Rick L. Riolo, Robert E. Smith, Pier Luca Lanzi, Wolfgang Stolzmann, Stewart W. Wilson</i>	
A Roadmap to the Last Decade of Learning Classifier System Research ..	33
<i>Pier Luca Lanzi, Rick L. Riolo</i>	
State of XCS Classifier System Research	63
<i>Stewart W. Wilson</i>	
An Introduction to Learning Fuzzy Classifier Systems	83
<i>Andrea Bonarini</i>	

II Advanced Topics

Fuzzy and Crisp Representations of Real-valued Input for Learning Classifier Systems	107
<i>Andrea Bonarini, Claudio Bonacina, Matteo Matteucci</i>	
Do We Really Need to Estimate Rule Utilities in Classifier Systems?	125
<i>Lashon B. Booker</i>	
Strength or Accuracy? Fitness calculation in learning classifier systems ...	143
<i>Tim Kovacs</i>	
Non-homogeneous Classifier Systems in a Macro-evolution Process	161
<i>Claude Lattaud</i>	
An Introduction to Anticipatory Classifier Systems	175
<i>Wolfgang Stolzmann</i>	
A Corporate XCS	195
<i>Andy Tomlinson, Larry Bull</i>	
Get Real! XCS with Continuous-Valued Inputs	209
<i>Stewart W. Wilson</i>	

III Applications

XCS and the Monk's Problems	223
<i>Shaun Saxon, Alwyn Barry</i>	
Learning Classifier Systems Applied to Knowledge Discovery in Clinical Research Databases	243
<i>John H. Holmes</i>	
An Adaptive Agent Based Economic Model	263
<i>Sonia Schulenburg, Peter Ross</i>	
The Fighter Aircraft LCS: A Case of Different LCS Goals and Techniques .	283
<i>R. E. Smith, B. A. Dike, B. Ravichandran, A. El-Fallah, R. K. Mehra</i>	
Latent Learning and Action Planning in Robots with Anticipatory Classifier Systems	301
<i>Wolfgang Stolzmann, Martin Butz</i>	

IV The Bibliography

A Learning Classifier Systems Bibliography	321
<i>Tim Kovacs, Pier Luca Lanzi</i>	
Author Index	349



<http://www.springer.com/978-3-540-67729-1>

Learning Classifier Systems

From Foundations to Applications

Lanzi, P.L.; Stolzmann, W.; Wilson, S.W. (Eds.)

2000, X, 354 p., Softcover

ISBN: 978-3-540-67729-1