

# A Learning Classifier Systems Bibliography



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## **Abstract**

We present a bibliography of all works we could find on Learning Classifier Systems (LCS) – the genetics-based machine learning systems introduced by John Holland. With over 400 entries, this is at present the largest bibliography on classifier systems in existence. We include a list of LCS resources on the world wide web.

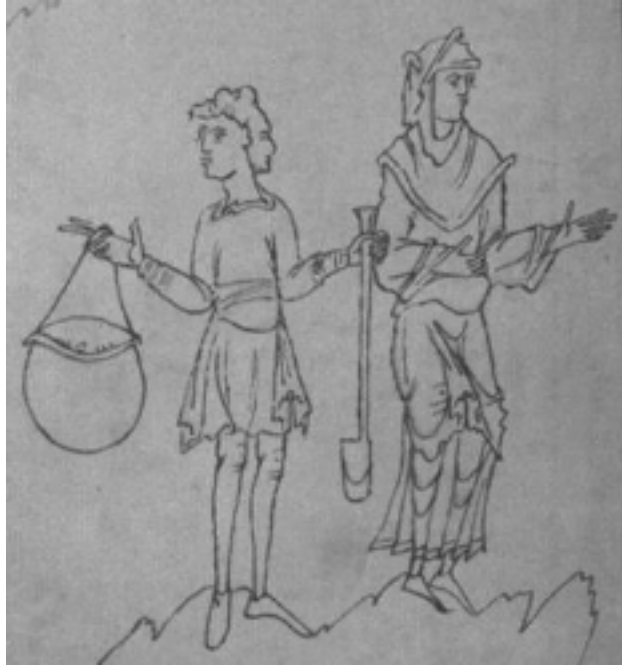


Figure 1: The authors search the internet for LCS references.

## Introduction

Learning classifier systems (LCS) have a long and rich history. We hope this bibliography will both illustrate this point and prove a useful resource for researchers. Although the first classifier system, CS-1, was reported in 1978 [233], the development of LCS was foreshadowed by some of Holland's earlier work [218, 219, 220] dating back as far as 1971. In the early 80's much progress was in the form of PhD theses [384, 37, 190, 349, 170] (but see also [423, 424]), following which LCS papers began to appear steadily in conferences. Later landmarks include the publication of books by Holland in 1986 [231] and Goldberg in 1989 [193], and the first and second international workshops on LCS, in 1992 and 1999 respectively.

As the bibliography shows, LCS papers appear in a wide range of conferences and journals. LCS resources on the world wide web include:

**The LCS Web** <http://www.csm.uwe.ac.uk/~ambarry/LCSWEB/>

**NetQ** lets you question the author of an article. <http://netq.rowland.org/>

**GA-list** A mailing list about Genetic Algorithms. To subscribe mail:  
ga-list-request@aic.nrl.navy.mil with 'subscribe' in the body of the mail.

**GA-list archive** <http://www.aic.nrl.navy.mil/galist>

**comp.ai.genetic** A USENET news group, which provides a useful list of Frequently Asked Questions.

**ENCORE** (Evolutionary Computation Repository Network)  
<http://www.cs.bham.ac.uk/Mirrors/ftp.de.uu.net/EC/clife/>

**The LCS Bibliography** <http://www.cs.bham.ac.uk/~tyk/lcs/> Contributions and corrections can be mailed to the first author at:  
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