

International Workshop on Evolutionary Rule-Based Machine Learning Workshop (IWERML) Welcome

It is our great pleasure to welcome you to the International Workshop on Evolutionary Rule-Based Machine Learning Workshop held in conjunction with GECCO 2016. In previous years, this workshop has been hosted as the International Workshop on Learning Classifiers Systems (IWLCS). Since the previous edition, it has been expanded to include all forms of evolutionary rule-based machine learning systems to include a wider set of research topics and participation.

LCSs originated in work by Holland in the 70's, and aimed to create cognitive systems that used evolutionary computation to learn to perform a certain task by interacting with its environment. Since that time, the LCS paradigm has broadened greatly into an algorithmic framework encompassing many representations, rule discovery mechanisms, and credit assignment schemes. LCS applications have varied greatly including problems in data mining, classification, function approximation, reinforcement learning, and on-line control. Classifier systems are an active area of research, fueled by novel reinventions of the LCS architecture such as those introduced in Wilson's accuracy-based XCS.

IWLCS was initiated in 1992 held at the NASA Johnson Space Center in Houston, Texas. Since 1999, the workshop has been held yearly in conjunction with PPSN in 2000 and 2002, and in conjunction with GECCO in 1999, 2001 and from 2003 until the present. This year's workshop will include two invited papers from eminent researchers, a hands-on lab session to get familiar with LCS, and a panel discussion to answer questions and outline challenges and future directions for LCSs in the age of deep learning.

We would like to thank all participants and presenters for making this workshop a success.

We hope that you will find this program interesting and thought provoking, and that the workshop will provide you with a valuable opportunity to share ideas with other researchers and practitioners from institutions around the world.



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