Learning decision trees using the area under the ROC curve - all 11 versions

C Ferri, P Flach, J Hernandez-Orallo - Proceedings of the 19th International Conference on Machine Learning, 2002 - dns2.icar.cnr.it

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A Strong Complete Schema for Inductive Functional Logic Programming - all 5 versions

[CITATION] Decision support for data mining: Introduction to ROC analysis and its applications
P Flach, H Blockeel, C Ferri, J Hernandez-Orallo, ... - Data Mining and Decision Support: Integration and ..., 2003
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[PS] Inverse Narrowing for the Induction of Functional Logic Programs - all 5 versions »
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Simple Mimetic Classifiers* V. Estruch, C. Ferri, J. Hernandez-Orallo, and MJ Ramirez-Quintana DSIC, Univ. Politecnica de Valencia, Cami de Vera s/n, 46020 Valencia, Spain {vestruch, cferri, jorallo, mramirez} Qds ic. upv. es ...
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C Ferri, J Hernandez-Orallo, MJ Ramirez-Quintana - Discovery Science: 5th International Conference, DS 2002, ..., 2002 - books.google.com
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Page 1. Constructive Reinforcement Learning Jose Hernandez-Orallo Department of Information Systems and Computation, Technical University of Valencia, Cami de Vera 14, Aptat. 22.012 E-46071, Valencia, Spain ...
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[PDF] Decision Trees for Ranking: Effect of new smoothing methods, new splitting criteria and simple ... 
C Ferri, P Flach, J Hernández-Orallo - dsic.upv.es
Abstract. In this work we investigate several issues in order to improve the per- formance of probabilistic estimation trees (PETs). First, we derive a new
Probability smoothing that takes into account the class distributions of...

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Beam Search Extraction and Forgetting Strategies on Shared Ensembles
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Theoretical Issues of Mimetic Classifiers

Distance Based Generalisation
V Estruch, C Ferri, J Hernandez-Orallo, MJ Ramirez... - Inductive Logic Programming: 15th International Conference, ..., 2005 - books.google.com

PA, ed
J Hernandez-Orallo, C Ferri, NF Lachiche - ROC Analysis in Artificial Intelligence, 1st Int. Workshop, ..., 2004
Abstract Receiver Operating Characteristic (ROC) has been successfully applied to classifier problems with two classes. The Area Under the ROC Curve (AUC) has been determined as a better way to evaluate classifiers than predictive...
C Ferri-Ramirez, PA Flach, J Hernandez-Orallo - Proc. of the 19th International Conference on Machine Learning - citeseer.ist.psu.edu


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[PS] Distinguishing Abduction and Induction under Intensional Complexity - all 3 versions »
J Hernandez-Orallo, I Garcia-Varea - Proc of the European Conference on Artificial Intelligence - cs.bris.ac.uk
Abstract: This paper presents a theoretical and general differentiation among descriptional induction, explanatory induction and abduction. Descriptional induction is based on the idea of compression (justified by mean- or cross- ...
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Predictive Software - SFX: texto completo - all 4 versions »
J Hernandez-Orallo, M Jose Ramírez-Quintana - Automated Software Engineering, 2001 - Springer
Abstract. We examine the adaptation of classical machine learning selection criteria to ensure or improve the predictiveness of specifications. Moreover, inspired in incremental learning, software construction is also seen as an ...
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Beyond the Turing Test - SFX: texto completo - all 6 versions »
J Hernandez-Orallo - Journal of Logic, Language and Information, 2000 - Springer
(Received 1 June 1999; in final form 15 April 2000) Abstract. The main factor of intelligence is defined as the ability to comprehend, formalising this ability with the help of new constructs based on descriptional complexity. The ...
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[CITATION] The FLIP system homepage, 2000
C Ferri-Ramirez, J Hernandez-Orallo, MJ Ramirez- ...
Cited by 1 - Related Articles - Web Search

Re-designing Cost-Sensitive Decision Tree Learning
V Estruch, C Ferri, J Hernandez-Orallo, MJ ... - Workshop of Data Mining and Learning at the 8th ... , 2002 - citeseer.ist.psu.edu
In this work we present several innovations in the generation of comprehensible models, by the use of a newly devised structure for the learning of multiple decision trees. In particular, we are able to obtain a set of models a hypothesis ensemble ...
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Learning functional logic classification concepts from databases
C Ferri-Ramírez, J Hernández-Orallo, MJ Ramírez- ... - Proceedings of the 9th International Workshop on Functional ... - citeseer.ist.psu.edu
In this paper we address the possibilities, advantages and shortcomings of addressing different data mining problems with the Inductive Functional Logic Programming (IFLP) paradigm. As a functional extension of the Inductive Logic Programming (ILP) paradigm, IFLP is suitable for reasoning with higher order knowledge, i.e., programs that may have functions in the signature. The IFLP paradigm models programs as terms and the logical reasoning as rewrite rules. The input data is represented as a database of facts and the goal is to derive a functional program which explains the data. The inference of the programs is carried out by using techniques based on narrowing, unification and generalisation.

[CITATION] Inductive inference of functional logic programs by inverse narrowing
J Hernandez-Orallo, MJ Ramirez-Quintana - Proc JICSLP
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[CITATION] Inverse Narrowing for the Inductive Inference of Functional Logic Programs
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[PDF] Some results about generalisations of graphs embedded in metric spaces
V Estruch, C Ferri, J Hernandez-Orallo, MJ … - dsic.upv.es
Abstract. Distances and similarity functions between structured data-types, such as graphs, have been widely employed in machine learning since they are able to identify similar cases or prototypes from which decisions can be ...
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[PS] Learning MDL-guided Decision Trees for Constructor-Based Languages?
C Ferri-Ramírez, J Hernandez-Orallo, MJ Ramirez- … - Proceedings of 11th International Conference on Inductive …, 2001 - dsic.upv.es
Abstract. In this paper, we present a method for generating very expressive decision trees based on several partitions over a functional logic language. First, trees are generated top-down and partitions are selected according ...
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Incremental Learning of Functional Logic Programs - all 7 versions »
Incremental Learning of Functional Logic Programs C. Ferri-Ramirez, J. Hernandez-Orallo, MJ Ramirez-Quinta* DSIC, UPV, Camino de Vera s/n, E-46022
Incremental learning of functional logic programs
C Ferri-Ramírez, J Hernandez-Orallo, MJ Ramírez - Proceedings of the 5th International Symposium on Functional … - Springer

Abstract. In this work, we consider the extension of the Inductive Functional Logic Programming (IFLP) framework in order to learn functions in an incremental way. In general, incremental learning is necessary when the number of...

Knowledge Acquisition through Machine Learning: Minimising Expert’s Effort - all 2 versions »
R Blanco-Vega, J Hernandez-Orallo, MJ Ramirez - ieeexplore.ieee.org

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Learning Decision Trees Using the Area Under the ROC Curve.[In:] Claude Sammut and Achim Hoffmann, …
C Ferri, P Flach, J Hernández-Orallo - Proceedings of the 19th International Conference on Machine …

A formal definition of intelligence based on an intensional variant of Kolmogorov complexity

What is a subprogram

Explanatory Induction and Informative Deduction using Intensional Complexity

Cautious classification
C Ferri, J Hernandez-Orallo - ECAI2004
Learning decision trees using the area under the ROC curve

P Flach, C Ferri, J Hernandez-Orallo - Proc. of the - cs.bris.ac.uk
ROC analysis is increasingly being recognised as an important tool for evaluation and comparison of classifiers when the operating characteristics (ie class distribution and cost parameters) are not known at training time. ...
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T. Maibaum (Ed.): FASE 2000, LNCS 1783, pp. 147-162, 2000. Springer-Verlag
Berlin Heidelberg 2000 ... Software as Learning: Quality Factors and Life-Cycle Revised ... José Hernández-Orallo and Mª José Ramírez-Quintana
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Bagging Decision Multi-trees - all 4 versions »
V Estruch, C Ferri, J Hernandez-Orallo, MJ Ramirez ... - Multiple Classifier Systems: 5th International Workshop, MCS ..., 2004 - books.google.com
Bagging Decision Multi-trees* Vicent Estruch, Cesar Ferri, Jose Hernandez-Orallo, and Maria Jose Ramirez-Quintana DSIC, Univ. Politecnica de Valencia, Caml de Vera s/n, 46020 Valencia, Spain {vestruch, cferri, j ...
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[PS] On Autistic Interpretations of Occam's Razor
J Hernández-Orallo, I García-Varea - dsic.upv.es
Abstract. Recently, an overhype about the MDL principle is surrounding some elds of Articial Intelligence, especially machine learning, neural networks, ILP and many others, sup- ported by recent proofs that the shorter the more likely. ...
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Cost-Sensitive Diagnosis of Declarative Programs - SFX: texto completo
D Ballis, M Falaschi, C Ferri, J Hernández-Orallo, ... - Electronic Notes in Theoretical Computer Science, 2003 - Elsevier
Diagnosis methods in debugging aim at detecting bugs of a program, either by comparing it with a correct specification or by the help of an oracle
(typically, the user herself). Debugging techniques for declarative ...

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**Computational measures of information gain and reinforcement in inference processes**

*J Hernandez-Orallo* - 2000 - ingentaconnect.com

Reasoning is much more than theorem proving, much more than inductive generalisation and much more than abduction, analogy and other partial inference processes. And it is much more than the sum of all of them. If we can ...

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[PDF] **UNIVERSAL AND COGNITIVE NOTIONS OF ‘PART’**

*J Hernández-Orallo* - dsic.upv.es

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*J Hernandez-Orallo*, *MJ Ramirez-Quintana* - dsic.upv.es

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Induction of decision multi-trees using Levin search - all 5 versions »C Ferri-Ramírez, J Hernández-Orallo, MJ Ramírez- ...
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J Alapont, A Bella-Sanjuán, C Ferri, J Hernández- ...
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Shared Ensemble Learning Using Multi-trees

Abstract. Decision tree learning is a machine learning technique that allows accurate and comprehensible models to be generated. Accuracy can be improved by ensemble methods which combine the predictions of a set of different trees...

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método general y simple que se emplea para obtener un clasificador similar a
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