## Accepted Manuscript

Evolving Genetic Programming Classifiers with Novelty Search

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 PII:
 S0020-0255(16)30473-X

 DOI:
 10.1016/j.ins.2016.06.044

 Reference:
 INS 12318

To appear in: Information Sciences

Received date:	23 November 2015
Revised date:	22 June 2016
Accepted date:	25 June 2016

Please cite this article as: Enrique Naredo, Leonardo Trujillo, Pierrick Legrand, Sara Silva, Luis Muñoz, Evolving Genetic Programming Classifiers with Novelty Search, *Information Sciences* (2016), doi: 10.1016/j.ins.2016.06.044

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## ACCEPTED MANUSCRIPT

## Highlights

- Novelty Search is applied for the first time to supervised classification with GP.
- Two new variants of NS are proposed, overcoming some of its main shortcomings.
- NS achieves competitive results compared to objective-based search.
- Results show bloat control properties in binary tasks for NS.

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