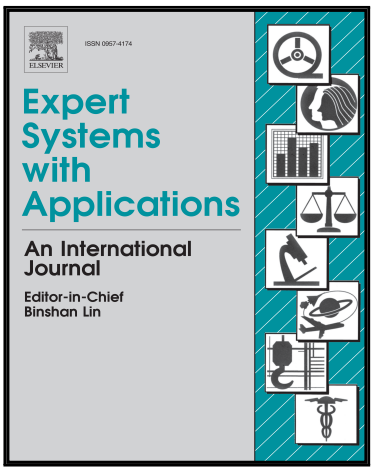

A rule-based support system for dissonance discovery and control applied to car driving

F. Vanderhaegen

PII: S0957-4174(16)30478-X
DOI: 10.1016/j.eswa.2016.08.071
Reference: ESWA 10864

To appear in: *Expert Systems With Applications*

Received date: 21 March 2016
Revised date: 18 August 2016
Accepted date: 30 August 2016

Please cite this article as: F. Vanderhaegen , A rule-based support system for dissonance discovery and control applied to car driving , *Expert Systems With Applications* (2016), doi: 10.1016/j.eswa.2016.08.071

Highlights

- Proposal of a tool to support dissonance discovery and control.
- Dissonances defined as conflicts into a knowledge base or between knowledge bases.
- Formalism based on rules to identify dissonances as affordances and inconsistencies.
- Feasibility study on car driving domain involving five rule bases.
- Validation involving 20 subjects.