

## Heuristics for a Default Logic Reasoning System

Submitted by Igor St phan on Wed, 02/18/2015 - 11:43

Titre	Heuristics for a Default Logic Reasoning System
Type de publication	Article de revue
Auteur	Nicolas, Pascal [1], Saubion, Fr�d�ric [2], St�phan, Igor [3]
Editeur	World Scientific Publishing
Type	Article scientifique dans une revue � comit� de lecture
Ann�e	2001
Langue	Anglais
Num�ro	4
Pagination	503-523
Volume	10
Titre de la revue	International Journal on Artificial Intelligence Tools
ISSN	0218-2130
Mots-cl�s	Default logic [4], Genetic algorithms [5], local search techniques [6], non monotonic reasoning [7]
R�sum� en anglais	<p>In Artificial Intelligence, Default Logic is recognized as a powerful framework for knowledge representation when one has to deal with incomplete information. Its expressive power is suitable for non monotonic reasoning, but the counterpart is its very high level of theoretical complexity. Today, some operational systems are able to deal with real world applications. However, finding a default logic extension in a practical way is not yet possible in whole generality. This paper which is an extended version of [18] shows how heuristics such as Genetic Algorithms and Local Search techniques can be used and combined to build an automated default reasoning system. We give a general description of the required basic components and we exhibit experimental results.</p>
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua8023">http://okina.univ-angers.fr/publications/ua8023</a> [8]
DOI	10.1142/S0218213001000635 [9]
Lien vers le document	<a href="http://dx.doi.org/10.1142/S0218213001000635">http://dx.doi.org/10.1142/S0218213001000635</a> [9]

---

### Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=7495](http://okina.univ-angers.fr/publications?f[author]=7495)
- [2] <http://okina.univ-angers.fr/frederic.saubion/publications>
- [3] <http://okina.univ-angers.fr/igor.stephan/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=8688](http://okina.univ-angers.fr/publications?f[keyword]=8688)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=8940](http://okina.univ-angers.fr/publications?f[keyword]=8940)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=9009](http://okina.univ-angers.fr/publications?f[keyword]=9009)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=12566](http://okina.univ-angers.fr/publications?f[keyword]=12566)

[8] <http://okina.univ-angers.fr/publications/ua8023>

[9] <http://dx.doi.org/10.1142/S0218213001000635>

Publié sur *Okina* (<http://okina.univ-angers.fr>)