

## Minds and Machines

Journal for Artificial Intelligence, Philosophy, and  
Cognitive Science

Volume 22 · Number 2 · Summer 2012

Special Issue: Theory and Philosophy of AI

Guest Editor: Vincent C. Müller

### INTRODUCTION

**Introduction: Philosophy and Theory of Artificial Intelligence**  
V.C. Müller 67

**The Superintelligent Will:  
Motivation and Instrumental Rationality in Advanced Artificial Agents**  
N. Bostrom 71

**A History of First Step Fallacies**  
H.L. Dreyfus 87

**Wherein is Human Cognition Systematic?**  
A. Gomila · D. Travieso · L. Lobo 101

**How to Build a Robot that is Conscious and Feels**  
J.K. O'Regan 117

**Computation, Implementation, Cognition**  
O. Shagrir 137

Further articles can be found at [www.springerlink.com](http://www.springerlink.com)

Indexed/abstracted in *Science Citation Index Expanded (SciSearch)*, *SCOPUS*, *PsycINFO*, *INSPEC*,  
*Google Scholar*, *EBSCO*, *CSA*, *Academic OneFile*, *Academic Search*, *ACM Computing Reviews*, *ACM  
Digital Library*, *African Urban & Regional Science Index*, *Bibliography of Linguistic Literature*, *Cabell's*,  
*Computer Abstracts International Database*, *Computer Science Index*, *Current Abstracts*, *EI-Compendex*,  
*Gale*, *io-port.net*, *Journal Citation Reports/Science Edition*, *Neuroscience Citation Index*, *OCLC*, *Répertoire  
Bibliographique de la Philosophie*, *SCImago*, *Summon by Serial Solutions*, *The Philosopher's Index*

Instructions for Authors for *Minds and Machines* are available at <http://www.springer.com/11023>

Available  
online  
[www.springerlink.com](http://www.springerlink.com)

Minds and Machines

Vol. 22 No. 2 Summer 2012

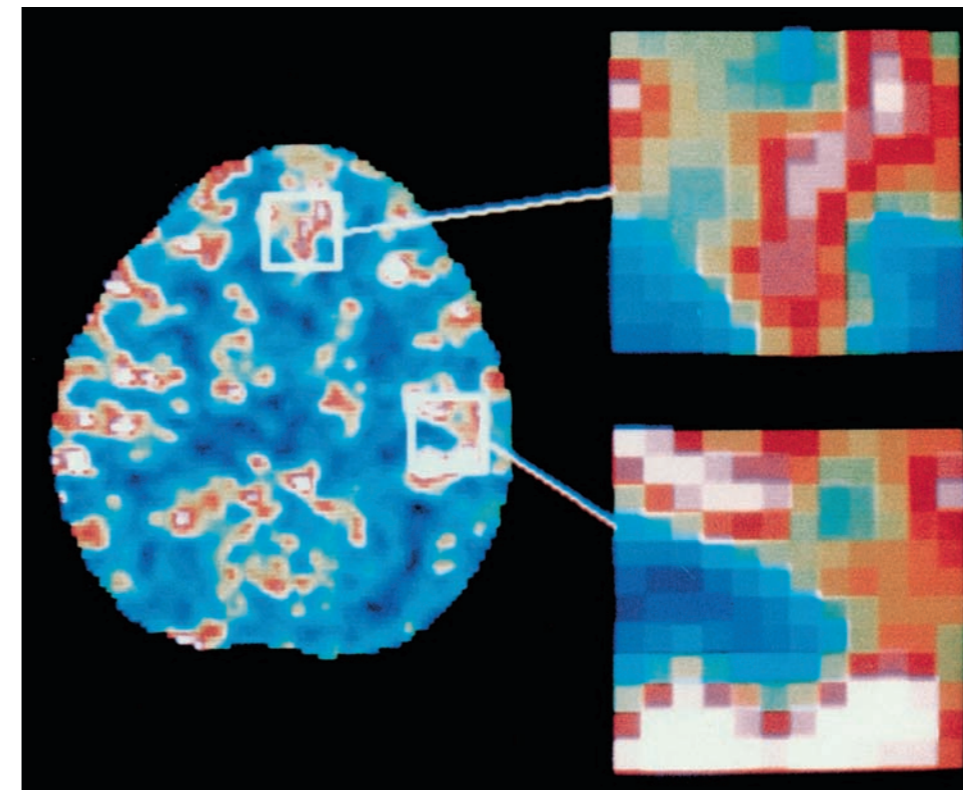
pp. 67-148

ISSN 0924-6495

# MINDS and MACHINES

*Journal for Artificial Intelligence,  
Philosophy, and Cognitive Science*

Vol. 22 No. 2 Summer 2012



 Springer