Call for Papers for Minds & Machines’ special issue on *Computation and Representation in Cognitive Neuroscience*

**GUEST EDITOR**

Gualtiero Piccinini, University of Missouri – St. Louis

**INTRODUCTION**

Cognitive neuroscientists routinely explain cognition in terms of neural computations over neural representations. Yet some critics argue that cognitive neuroscience does not need the notions of neural computation and representations or, worse, that these notions are untenable. Whether or not the critics are correct, the notions of neural representation and neural computation remain insufficiently understood. There is no consensus on how to construe these notions and how to relate them to the notions of computation and representation used in other disciplines (including psychology and computer science), to neural mechanisms, or to intentionality. This special issue will push the debate forward on these debates.

**Invited Participants:**

Rosa Cao (Stanford)
Mazviita Chirimuta (Pittsburgh)
Gualtiero Piccinini (University of Missouri – St. Louis) and Alex Morgan (Rice)
Oron Shagrir (Hebrew University in Jerusalem)
Jacqueline Sullivan (Western)

**TOPICS**

The main topics of interest include, but are not restricted to:

- Neural representation
- Neural computation
Neurocognitive architecture
Neural computation, neural representation, and information
Neural computation, neural representation, and mechanisms
Neural computation, neural representation, and intentionality
Neural computation and representation versus psychological computation and representation
How to naturalize neural representation
Alternatives to neurocomputational and neurorepresentational approaches
Neural computation without representation

TIMETABLE

Deadline for paper submissions: January 31, 2017
Deadline for paper reviewing: March 30, 2017
Deadline for submission of revised papers: April 30, 2017
Deadline for reviewing revised papers: May 15, 2017
Paper will be published in 2017

SUBMISSION DETAILS
To submit a paper for this special issue, authors should go to the journal's Editorial Manager https://www.editorialmanager.com/mind/default.aspx
The author (or a corresponding author for each submission in case of co-authored papers) must register into EM.

The author must then select the special article type: "Computation and Representation in Cognitive Neuroscience" from the selection provided in the submission process. This is needed in order to assign the submissions to the Guest Editor.
Submissions will then be assessed according to the following procedure:
New Submission => Journal Editorial Office => Guest Editor(s) => Reviewers => Reviewers’ Recommendations => Guest Editor(s)’ Recommendation => Editor-in-Chief’s Final Decision => Author Notification of the Decision.
The process will be reiterated in case of requests for revisions.

For any further information please contact:
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