

Volume Signalling in Real and Robot Nervous Systems

Phil Husbands and Andy Philippides and Tom Smith and Michael O'Shea

CCNR, University of Sussex, Brighton BN1 9QH, UK
phil1h@cogni.sussex.ac.uk

Abstract. This paper presents recent work in computational modelling of diffusing gaseous neuromodulators in biological nervous systems. A variety of interesting and significant properties of such four dimensional neural signalling systems are demonstrated. It is shown that the morphology of the neuromodulator source plays a highly significant role in the diffusion patterns observed. The paper goes on to describe work in adaptive autonomous systems directly inspired by this: an exploration of the use of virtual diffusing modulators in robot nervous systems built from non-standard artificial neural networks. These virtual chemicals act over space and time modulating a variety of node and connection properties in the networks. A wide variety of rich dynamics are possible in such systems; in the work described here, evolutionary robotics techniques have been used to harness the dynamics to produce autonomous behaviour in mobile robots. Detailed comparative analyses of evolutionary searches, and search spaces, for robot controllers with and without the virtual gases are introduced. The virtual diffusing modulators are found to provide significant advantages.

1 Introduction

This paper describes some of the main thrusts of an ongoing interdisciplinary study of diffusing neuromodulators in real and artificial systems. After explaining the motivations and biological background of the project, the key results from recent detailed computational models of nitric oxide (NO) diffusion from extended three dimensional neural sources are discussed. This leads to a description of work on more abstract artificial neural systems heavily inspired by the biology. These so-called GasNets are used as artificial nervous systems for mobile autonomous robots. Detailed comparative studies of evolutionary robotics experiments involving GasNets and non-GasNets are introduced. These include investigations into the formal evolvability of such systems. The paper closes with a sketch of current and future directions of the project.

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