ELSC Seminar: Prof. Aaron Sloman

January 21, 2016

On the topic of: "Evolved and engineered information processing architectures for vision and language"

ELSC cordially invites you to the lecture given by:

Prof. Aaron Sloman

Honorary Professor of Artificial Intelligence and Cognitive Science.

School of Computer Science, The University of Birmingham, UK

On the topic of:

"Evolved and engineered information processing architectures for vision and language"

The lecture will be held on Thursday January 21st at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus.

Light refreshments at 16:45

Abstract:

As a philosopher trying to understand what minds are and how they work, especially mathematical minds able to discover Euclidean geometry, I feel that the information-processing mechanisms so far considered in AI/Robotics, psychology, neuroscience, and other fields lack the ability to explain certain kinds of mental phenomena, including the processes by which children create (*not* learn) languages, make mathematical discoveries in geometry and topology, and closely related processes in visual perception and reasoning. I'll give a very brief overview of a long term project, the Turing-inspired "Meta-Morphogenesis" project, aimed at identifying transitions in information processing since the earliest life (or pre-life) forms, and present some ideas about architectures, forms of representation and motivational mechanisms that seem to open up new lines of research. I don't think we are close to finding answers and replicating human or squirrel or corvid intelligence. But we can make progress. Advance homework: You can remove a shoe-lace from a shoe by pulling one end, or by pulling the other end. Why doesn't it come out twice as fast if you pull both ends? What would enable a future robot to understand this? What brain mechanisms make it possible for
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