

Human Intelligence and

Computational Intelligence – beyond the Known Unknowns?

Invited lecture of **Prof. Trevor Martin**

University of Bristol

4th November 2010 (Thursday)

P335, Poole House, Talbot Campus, 4pm–5pm

We have recently seen a step change in the volume of data, the range of data formats and access modes plus a huge increase in the speed at which many data sources are updated. Consequently, information systems can no longer be represented by monolithic, rigorously defined and centralised data models. In many cases, this means that the data relevant to a decision is scattered over multiple, poorly structured, locations such as personal file stores, networked databases, various web pages, etc. Human intelligence is relatively good at working with incomplete knowledge - memorably summarised as the “known knowns, the known unknowns and the unknown unknowns”. This talk will look at the strengths and weaknesses of Computational Intelligence in dealing with the problems of the “unknown” and its use in developing tools that can support today’s knowledge workers.

Prof. Trevor Martin

Trevor Martin is Professor of Artificial Intelligence at the University of Bristol. Since 2001 he has been 80% funded by BT as a Senior Research Fellow, researching soft computing in intelligent information management including areas such as the semantic web, soft concept hierarchies and user modelling. He is a member of the editorial board of Fuzzy Sets and Systems, and has served on many conference programme and organising committees, including programme chair (2007) and technical co-chair (2010) for the IEEE Fuzzy Systems Conference. He is a co-organiser of the URSW (Uncertain Reasoning for the Semantic Web) series of workshops, and participated in a W3C group investigating the same topic as well as chairing the IEEE Computational Intelligence Society’s Semantic Web Task Force. He has published over 200 papers in refereed conferences, journals and books, and is a Chartered Engineer and member of the BCS and IEEE, as well as serving on the EPSRC College.

Computing & Informatics Academic Group

For more information about seminars please contact: Kate Musial

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