



SAID BUSINESS SCHOOL, University of Oxford

## SEMINAR SERIES / HILARY 2011

Convenors: Felix Reed-Tsochas, Institute for Science, Innovation and Society,  
Saïd Business School  
Eduardo López, Saïd Business School

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Seminar webpage:  
[www.cabdyn.ox.ac.uk/complexity\\_seminars.asp](http://www.cabdyn.ox.ac.uk/complexity_seminars.asp)

Sandwiches and drinks will be provided

Please note: although the seminar programme detailed was correct at time of printing, seminar arrangements are subject to change - for the latest information, please check the seminar webpage.

**Tuesday 15<sup>th</sup> March**  
(12.30 - 2.00pm) James Martin Seminar Room

**Dr Tomaso Aste**

Associate Professor & Reader, School of Physical Sciences, University of Kent

**'A network approach to capture both local clustering and global organisation in complex signals'**

### ABSTRACT

The continuous increase in the capability of automatic data acquisition and storage is a fundamental element for our progress which is providing unprecedented potentials. However, despite the fact that huge amount of data are accumulating in many fields, often the relevant information remains hidden and information filtering is becoming a crucial bottleneck of the present times.

In this seminar I will present an innovative approach to information filtering which is based on the idea of building graphs associated to the information contained in the original data-set and then reducing redundancy and interwovenness by means of a topological embedding on surfaces.

I will explain, in general terms, the concepts underneath this methodology and I will show applications to biological and financial datasets.

