

Data as a utility and analytics as a service

9th of June, 12:00-18:00, Executive Business Centre, Lansdowne Campus, Bournemouth University

Workshop chair: Prof. Bogdan Gabrys, Data Science Institute, Bournemouth University

We are currently experiencing an incredible, explosive growth in digital content and information. According to IDC¹, there currently exists over 2.7 zettabytes of data. It is estimated that **the digital universe in 2020 will be 50 times as big as in 2010** and that from now until 2020 it will double every two years. **Research in traditionally qualitative disciplines is fundamentally changing** due to the availability of such vast amounts of data. In fact, data-intensive computing has been named as the fourth paradigm of scientific discovery² and is expected to be key in unifying the theoretical, experimental and simulation based approaches to science. The commercial world has also been transformed by a focus on BIG DATA with companies competing on analytics³. Data has become a commodity and in recent years has been referred to as the 'new oil'. We are entering a **new era of predictive analytics and data intensive computing** which has been recognised worldwide with various high profile reports^{4,5,6} highlighting the challenges and attempting to quantify its huge potential benefits.

This EPSRC IT as a Utility Network+ (<http://www.itutility.ac.uk/>) and EU INFER (<http://www.infer.eu/>) co-sponsored event organised as part of the Bournemouth University's Festival of Learning (<http://microsites.bournemouth.ac.uk/festival-of-learning/>) will explore the value of very quickly growing data and feasibility of providing data and predictive analytics as services in various industries, public sector and academic disciplines.

The workshop will feature five invited 30 minutes talks to set up the scene for:

- i) looking at the growing value of data and treating it as a utility; and
- ii) feasibility of providing data and predictive analytics as a service on a large scale and across many industries and disciplines.

The talks will be followed by breakout interactive/discussion sessions in mixed groups with potential linking of partners for various follow on activities (grant applications, proof of concept projects etc.).

The attendance is free and if you are interested to join us please register following this link: <http://microsites.bournemouth.ac.uk/festival-of-learning/events/data-as-a-utility-and-analytics-as-a-service/>.

Confirmed invited speakers:

Prof. Nello Cristianini, Prof. of Artificial Intelligence, University of Bristol, UK
Prof. Detlef Nauck, Chief Research Scientist, BT's Research and Innovation Division, UK
Tom Quay, Director, We Are Base Ltd, UK

¹ Gantz, J., and D. Reinsel, "THE DIGITAL UNIVERSE IN 2020: Big Data, Bigger Digital Shadows, and Biggest Growth in the Far East", <http://www.emc.com/collateral/analyst-reports/idc-the-digital-universe-in-2020.pdf>, Sponsored by EMC. Dec. 2012

² Hey, T., S. Tansley and K. Tolle (EDs.): *The Fourth Paradigm: Data-Intensive Scientific Discovery*. Microsoft Press, 2009.

³ Davenport, T.H., and J.G. Harris, *Competing on Analytics: The New Science of Winning*. Harvard Business School Press, 2007

⁴ "Big data: The next frontier for innovation, competition, and productivity", McKinsey Global Institute, May 2011

⁵ "Big Data Analytics: An assessment of demand for labour and skills, 2012-2017", by e-Skills UK for SAS UK. Jan. 2013.

⁶ "Data equity: Unlocking the value of big data", by the Centre for Economics and Business Research for SAS UK. Apr. 2012.

Prof. Trevor Martin, Prof. of Artificial Intelligence, University of Bristol, UK
Dr. Dymitr Ruta, Chief Researcher, EBTIC, Khalifa University, UAE

Agenda:

12.00 - 12.45 - Registration and buffet lunch.
12.45 - 13.00 – Welcome and introduction (Bogdan Gabrys, Bournemouth University, UK)
13.00 - 13.30 – **Prof. Detlef Nauck** (BT, UK)
13.30 – 14.00 – **Prof. Nello Cristianini** (Bristol University, UK)
14.00 – 14.30 – **Tom Quay** (We Are Base Ltd, UK)
14.30 – 15.00 – Coffee break
15.00 – 15.30 – **Prof. Trevor Martin** (Bristol University/BT, UK)
15.30 – 16.00 – **Dr Dymitr Ruta** (EBTIC, Khalifa University, UAE)
16.00 – 16.15 – Break
16.15 – 17.15 – Breakout discussion sessions: i) data as a utility; ii) analytics as a service.
17.15 – 18.00 - Summary, recommendations and follow on actions.

Please contact Prof. Bogdan Gabrys (bgabrys@bournemouth.ac.uk) if you require any further information.