

Content, Connection and Context: From Data to Insight in Smarter Cities

Keynote

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ABSTRACT

Big Data has been popularised in the media as “the new currency”, fuelling a future vision of contextual systems that will transform our world. However the reality is we are only beginning to recognise significant research challenges across a spectrum of topics; from information retrieval, to knowledge representation & reasoning, and user experience, that must be addressed to realise the vision. Drawing on our research into real-world use cases in Urban Systems and Integrated Care, this talk will discuss a number of research challenges, and show early results and prototypes. The talk will be at a general level to stimulate discussion and identify possible areas for future research collaboration.

Biography

Pól Mac Aonghusa is a Senior Manager at the IBM Research, Ireland. He leads research teams focused on next generation High Performance Supercomputing (Exascale) and Big Data and Open Data for Urban Systems (City Fabric). Much of the research activity in the Big and Open Urban Data research program is being actively used with the Dublin Region to create their Open Data Portal. Dr. Aonghusa has led several emerging technology projects exploiting Big and Open Data, including Smartbay, an environmental sensing research program, collecting live sensor data from the Atlantic Coast of Ireland for research purposes. Smartbay was named as one of the 100 Icons of Progress in 2011. Dr. Aonghusa joined IBM 25 years ago, at the IBM Software Development Laboratory, Dublin. During his IBM career, he has held key Management, Technical and Consultant positions in IBM's Software, Services and Industry and Research Divisions.