

Seminar: Friday 23 August 2013: Monash Undergraduate Research Projects Abroad (MURPA) and Queensland Undergraduate Research Projects Abroad (QURPA).

Melbourne Date: Friday 23 August Time: 9.00 - 10.00am Location - Monash University: Seminar Room G12A, Building 26, Clayton Campus Enquiries: Caitlin Slattery (Faculty of IT)

Brisbane Date: Friday 23 August Time: 9.00 - 10.00am Location - University of Queensland: Seminar Room 505A, Building 47 (Axon), St Lucia Campus Enquiries: Sharon Cook (Research Computing Centre)

San Diego Date: Thursday 22 August Time: 7.00pm - 8.00pm

Abstract: Data Science and the Cloud

Prof Geoffrey Fox, Distinguished Professor of Computer Science and Informatics

There is an endlessly growing amount of data as we record every transaction between people and the environment (whether shopping or on a social networking site) while smart phones, smart homes, ubiquitous cities, smart power grids, and intelligent vehicles deploy sensors recording even more. Science with satellites and accelerators is giving data on transactions of particles and photons at the microscopic scale while low cost gene sequencers can soon give us petabytes of data each day. This data are and will be stored in immense clouds with co-located storage and computing that perform "analytics" that transform data into information and then to wisdom and decisions; data mining finds the proverbial knowledge diamonds in the data rough. This disruptive transformation is driving the economy and creating millions of jobs in the emerging area of "data science". We discuss this revolution and its implications for research and education in universities.

Seminar: Friday 2 August 2013: Monash Undergraduate Research Projects Abroad (MURPA).

The annual MURPA program exposes final year undergraduate students to an international research experience within a leading research laboratory.

On Friday 16 August Prof Wayne Pfeiffer will present his seminar "Bioinformatics Meets Big Data" live to audiences in Melbourne and Brisbane.

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Brisbane Date: Friday 16 August Time: 9.00 - 10.00am Location - University of Queensland: Seminar Room 505A, Building 47 (Axon), St Lucia Campus Enquiries: Sharon Cook (Research Computing Centre)

San Diego Date: Thursday 15 August Time: 4.00pm - 5.00pm Location: 5004 Meeting Room Enquiries: Teri Simas

Abstract: Bioinformatics Meets Big Data

Wayne Pfeiffer, Distinguished Scientist, San Diego Supercomputer Center, University of California, San Diego

The flood of data from next-generation DNA sequencers is transforming biology and medicine. How much data are we talking about? What are typical compute- and data-intensive analyses in bioinformatics? What are their computational challenges? How can gateways help? These are the questions to be addressed.