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PR-WITS-BIG-DATA SAPA PR -- WITS - WHAT TO DO WITH BIG DATA?

Jan 22, 2014 at 08:09 AM Issued by: Wits University

Attention: News / Technology Editors

For immediate release:

WEDNESDAY, 22 JANUARY 2014

WHAT TO DO WITH BIG DATA? WORLD SCIENTISTS AND ENGINEERS WILL GATHER AT WITS UNIVERSITY TO SEEK SOLUTIONS TO BIG DATA QUESTIONS

Leading physicists and engineers from South Africa and around the world will converge on Wits University next week to workshop one of the biggest challenges all scientists face this century: How to deal with big data output?

More than 100 researchers in fields such as physics, astronomy, geosciences, anthropology, photonics, applied mathematics, electrical engineering and information technology - as well as graduate students and representatives from industry - will attend the 2014 Hgh-performance Signal and Data Processing workshopwww.hpspsa.com/> hosted by the Wits School of Physics.

All media representatives are invited to attend:

Date: Monday to Friday (27 - 31 January 2014)

Venue: Wits Professional Development HUB, 92 Empire Road, Braamfontein

Scheduled slot for media interviews:

Leading scientists/researchers will be available for media interviews on Monday, 27 January 2014, from 12:20 - 14:00 at the venue. Contact Erna van Wyk (details below) for more information. Kevnote speakers include:

- * Dr Thomas Auf der Heyde, Deputy Director-General (Human Capital and Knowledge Systems) at the Department of Science and Technology (DST);
- * Dr Daniel Adams, Chief Director: Emerging Areas and Infrastructure, Department of Science and Technology (DST);
- * Professor Justin Jonas, MeerKAT Associate Director of Science and Engineering:
- * Dr Peter Jenni, one of the 'founding fathers' and former spokesperson of the ATLAS experiment at the CERN Large Hadron Collider in Switzerland that discovered the Higgs boson in 2012;
- * Emeritus Professor Jean Cleymans, from the University of Cape Town and Chairman of the SA-CERN consortium,

Go to indico.tlabs.ac.za/conferenceOtherViews.py?view=standard&confld=48 for the full programme.

ABOUT THE WORKSHOP

The workshop is jointly funded by SKA Africa and the University of the Witwatersrand and is hosted in collaboration with the University of Cape Town, the National Research Foundation/iThemba Labs, Stellenbosch University and SA-CERN.

 $\label{thm:condition} Workshop \hbox{\it Co-chair}, \hbox{\it Professor Bruce \it Mellado from the High Energy Physics Group (HEP)$$\stackrel{-}{\sim}$ hep.wits.ac.za/$$ in the School $$ $$ $$ $$$ of Physics at Wits University, says it has become a necessity for scientists in many fields to master the techniques of high-throughput signal and data processing.

"Science is becoming more complex and detailed. The amount of data now available and used to describe an object is growing very fast. This does not only apply to big sciences like CERN- where the SA-CERN teamworks - and the Square Kilometre Array (SKA) project, but to most modern sciences. It is now of strategic importance for the development and advancement of scientific research in South Africa that we develop our own electronics and computing architecture designs - to develop and build our own, affordable, supercomputers," Mellado says.

One of the key drivers in this development is the synergy between sciences. Mellado, also a member of the SA-CERN team, says CERN has a strong background in signal and data processing and has been dealing with these big data questions for the past 20 years. "Synergy between the SA-CEN community and other science communities, in particular the SKA, is essential to establish a strong base in signal and data processing in South Africa. SA-CERN is already assisting the SKA to liaise in areas of interest where CERN is leading innovation," Mellado adds

The workshop is themed Challenges in Astro- and Particle Physics and Radio Astronomy Instrumentation<al.dropboxusercontent.com/u/41005948/Flyer_DSP2014.jpg>, but the development of highthroughput computers, also known as supercomputers, will also have a revolutionary impact on data processing in all fields of science, such as medical sciences, palaeosciences and engineering.

"Engineering underpins much of the instrumentation being assembled by our colleagues in science, and we are very pleased with the range of engineering topics that we have assembled for the workshop," notes co-chair, Professor Michael Inggs, University of Cape Town. "We are confident that the exposure of the technology from the particle physics and radio astronomy projects at one venue will inspire collaboration.'

The workshop includes plenary sessions for in-depth presentations and knowledge sharing between delegates will be in lecture format, as well as a classroom environment for hands-on hardware training. General overviews and in-depth presentations will be given.

For more information, contact:
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