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SCADS Dresden/Leipzig: A Compentence Center for Big Data Research

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The past decade has witnessed a tremendous increase in the availability of data for sophisticated scientific analysis. Not only large-scale research projects are able to produce large amounts of raw data but also the availability of affordable instruments for studies of different types has fed the scientific data deluge. To enable users from different research domains to efficiently use HPC systems for scientific analysis they need assistance in their daily work for processing Big Data scenarios. To support such essential collaborative work for developing adaptable Big Data processing techniques and for providing a working environment for domain experts and computer scientists, a national competence center for Big Data, namely the "Competence Center for Scalable Data Services and Solutions"(ScaDS Dresden/Leipzig) has started it fall 2014. Domain experts from various research fields bring in their requirements for large-scale data processing and analysis and work closely together with data analysts from computer science to extend current methods of data reduction, the extraction of knowledge from the broad data bases (data mining, machine learning, visual analytics), and aim at a service oriented approach to generalize methods development towards Big Data services.

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