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Libraries in the big data era: Strategies and challenges in archiving and sharing research data

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The output of today's scientists consists of much more than traditional research papers; they produce comprehensive digital collections of objects which, alongside digital texts, include digital resources such as research data, audio-visual media, digital lab journals, images, statistics and software code. The continuously growing volume and variety of this scientific-technical content (STI), becoming available with ever-increasing velocity pose challenges to research libraries. This presentation provides an over view on how these challenges are being addressed by the German National Library of Science and Technology (TIB). TIB, one of the largest specialized libraries worldwide, acquires and archives content from around the world pertaining to all areas of engineering, architecture, chemistry, information technology, mathematics and physics. The TIB's information portal provides access to more than 160 million data sets from specialized databases, publishers and library catalogues. The TIB research and development department drives application focused research and development towards innovative library services and supportive infrastructure to accompany the lifecycle of scientific knowledge generation and transfer: An overview over the evolving TIB service offerings and emerging new capabilities from ongoing research efforts in the greater field of open science and non-textual information will be given.

Biography

Peter Löwe studied Geography at the Universities of Würzburg, Germany and UT Austin, USA. His PhD study focused on mining of weather radar data for Soil Erosion Studies in South Africa. After developing Tsunami Early Warning Systems at the German Research Centre for Geosciences, now he is working in the Remote Sensing Industry as the Head of Development at the Leibniz Information Centre for Science and Technology in Hannover, Germany.

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