

Press Release – Communiqué de Presse

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What helps generate new knowledge from the flood of raw data?

Karlsruhe, April 2018 – Answers to these questions are provided in the now online course “Information Service Engineering” held by Prof. Dr. Harald Sack and Dr. Maria Koutraki from FIZ Karlsruhe – Leibniz Institute for Information Infrastructure. The six-week course will start on Monday, April 16, 2018 and be available on the interactive teaching platform openHPI of Hasso-Plattner-Institut, Potsdam, Germany.

What is the challenge? As the name says, “raw“ data are unstructured and unprocessed. They have to be transformed in order to be available as information and knowledge that can be further processed intellectually and automatically. This transformation requires the use of technologies such as natural language processing, information retrieval and data and knowledge mining. The English-language online course teaches the basics of machine language processing, linked data-based knowledge representation and machine learning. The offer is available worldwide free of charge. It is aimed not only at students of computer science, data and web scientists, but also at all those interested in the combination of semantic search and machine learning. About four working hours per week are to be scheduled.

“Because information is practically available without limits today, we need search engines and intelligent programs to handle this wealth of information,“ says Prof. Dr. Harald Sack. “It is important to achieve ever more complete, accurate and reliable results when searching for and linking knowledge, not least because systems learn from their mistakes. In this course we will cover topics such as: How does automatic image recognition and video analysis, the translation of handwritten messages into machine-readable text and the reading of written texts by computer programs work?“ The new online course also deals with recommendation systems that are not only based on statistical analyses, but also take into account contextual contexts and explorative search techniques that make “lucky discoveries by chance“ possible.

To read more and register for the course, please visit:

<https://open.hpi.de/courses/semanticweb2017>.

FIZ Karlsruhe – Leibniz Institute for Information Infrastructure is a not-for-profit limited liability company. As one of the largest non-academic information infrastructure institutions in Germany, we have the public mission to provide researchers and scientists with scientific information and to develop the appropriate products and services. To this end, we edit and index large data volumes from manifold sources, develop and operate innovative information services and e-research solutions, and carry out research projects of our own. FIZ Karlsruhe is a member of the Leibniz Association which comprises 93 institutions involved in research activities and/or the development of scientific infrastructure.

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