

Crowd-enabled Data and Information Management (CDIM)

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Abstract: The first CDIM workshop on crowd-enabled data and information management was held in conjunction with 15th GI-Fachtagung Datenbanksysteme für Business, Technologie und Web (BTW), Magdeburg, Germany, 2013.

1 Message from the Chairs

In the recent years algorithms for data and information management, organization, and access have grown quite powerful even over huge and largely unstructured information repositories like the Web. Applications are almost limitless ranging from basic information extraction over knowledge management to complex business intelligence. However, with more complex information processing, retrieval, or mining capabilities also the algorithms' complexity, susceptibility for errors and danger of overspecialization increases.

Since most failings can be traced back to limited cognitive abilities, missing contextual knowledge or heuristics gone wrong, the idea of direct human feedback, supervision and intervention at processing time is currently pursued in many domains. In fact, the need for human assistance in bridging the final quality gap for today's information processing has already given rise to information systems that rely on hybrid architectures. Such hybrid architectures transparently combine the efficiency of current algorithms with the cognitive power and flexibility of humans. Here, generally two design directions are popular:

- Using human input for improving the steps performed by information processing algorithms by providing training samples, answering questions about ambiguous results, or by providing relevance feedback.
- Involving humans directly into the information processing process, explicitly outsourcing some of the required tasks or operators within the process.

The CDIM workshop focuses on raising awareness of new possibilities provided by crowdsourcing techniques and can benefit the community in getting a better grasp on possible applications and future research directions. Bringing together researchers from the database, information retrieval and the data mining communities and offering a platform for discussions within the BTW conference series thus promises to create synergies with mutual value.