L3S member receives Award at International Conference

**Best Multimodal Paper Award for the paper „Estimating the information gap between textual and visual representations“**

A contribution of Prof. Ewerth’s Research Group has received the „Best Multimodal Paper Award“ at the 2017 ACM International Conference on Multimedia Retrieval (ICMR), which took place in Bucharest (Romania) from June 6 to 9. In total, there were 95 full paper submissions at this year’s ICMR, from which 20 had been invited for (full) oral presentation.

In their paper „Estimating the information gap between textual and visual representations“, Christian Henning and Ralph Ewerth argue that there is not always a high semantic correlation between jointly placed textual and visual information, e.g., in Web news. So far, this assumption has been often made by related work regarding multimodal search. Henning and Ewerth suggest two measures to formally describe the degree of text-image-relations: Cross-modal mutual information (CMI) captures the amount of shared information, while semantic correlation (SC) describes the amount of shared meaning. Furthermore, the authors present a system based on deep learning that automatically estimates text-image relations by means of CMI and SC. Several applications are possible for the system: For example, it can used to rank news articles with event-specific image content at top positions in a search result list.

Reference: