Victor Odumuyiwa – University of Lagos, Nigeria
Yetunde Zaid – University of Lagos, Nigeria
Olatunde Barber – University of Lagos, Nigeria

Enhancing Knowledge Organization Through Implicit Collaboration in Crowdsourcing Process

Abstract:
This paper presents our approach in removing noisy labels from crowdsourced data and enhancing understanding and communication through crowdsourcing process aimed at creating metadata for describing digitalized artworks of a University Library Museum. A responsive Web application was created for the crowdsourcing activity and made open to the University community for interested individuals to participate in annotating the images. The collected annotation in form of tags were preprocessed and filtered to generate a subset of tags by removing duplicates and also eliminating some noisy labels using majority voting. The resulting subset was used as labels for the images for a second round of crowdsourcing process where users chose from the filtered labels. Comparing the output of the second round with the label (tags) from an expert shows a high level of similarity between the selected tags and the expert generated tags.

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