Knowledge Transfer between Computer Vision and Text Mining: Similarity-based Learning Approaches (Advances in Computer Vision and Pattern Recognition)

Radu Tudor Ionescu, Marius Popescu

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This ground-breaking text/reference diverges
from the traditional view that computer vision (for image analysis) and string
processing (for text mining) are separate and unrelated fields of study,
propounding that images and text can be treated in a similar manner for the
purposes of information retrieval, extraction and classification. Highlighting
the benefits of knowledge transfer between the two disciplines, the text
presents a range of novel similarity-based learning (SBL) techniques founded on
this approach. Topics and features: describes a variety of SBL approaches,
including nearest neighbor models, local learning, kernel methods, and
clustering algorithms; presents a nearest neighbor model based on a novel
dissimilarity for images; discusses a novel kernel for (visual) word
histograms, as well as several kernels based on a pyramid representation; introduces
an approach based on string kernels for native language identification; contains
links for downloading relevant open source code.

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