

UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Active Cleaning of Label Noise Using Support Vector Machines

by

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For the Ph.D. degree in Computer Science & Engineering

Large scale datasets collected using non-expert labelers are prone to labeling errors. Finding the label noise examples through a manual review process is largely unexplored due to the cost and time factors involved.

This dissertation proposes a novel solution exploiting the characteristics of the Support Vector Machine (SVM) classifier to identify uniform random label noise examples in a dataset. Application of this method is illustrated with problems involving real-world large scale datasets. The results show that most mislabels are quickly and effectively identified by the approaches developed in this dissertation.

Thursday, May 25, 2017

11:00 AM

ENB 313

Examining Committee

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