

Min H. Kao Department of Electrical Engineering &  
Computer Science

TICKLE COLLEGE OF ENGINEERING

# Announcement of a Defense of a Dissertation: Robert Earl Lowe

Candidate for a Doctor of Philosophy

## Date/Time

Thursday, July 12, 2018 at 2:00 PM

## Location

Min H. Kao room 435

## Major Professor

Dr. Michael Berry

## Title

“Textual Influence Modeling Through Non-Negative Tensor  
Decomposition”

## Abstract

No document is created in a vacuum. In all literature, there exists some influencing factor either in the form of cited documents, collaboration, or documents which authors have read. This influence can be seen within their works, and is present as a latent variable. This dissertation introduces a novel method for quantifying these influences, and representing them in a semantically understandable fashion. The model is constructed by representing documents as tensors, decomposing them into a set of factors, and then searching the corpus factors for similarity.

## Contact Us

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