

## Committee Page

The thesis of **Aliou Manjang** was reviewed and approved by the following:

We, the committee members listed below accept and approve the Thesis of the student named above. To the best of this committee's knowledge, the thesis conforms to the requirements of Qatar University, and we endorse this Thesis for examination.

Name Dr. Khaled Alemzaini

Signature  Date \_\_\_\_\_

Name Dr. Abdou Ndoye

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Name Dr. Steven Wright

Signature  Date \_\_\_\_\_

Name Dr. Rogaia Abu Sharaf

Signature  Date 6/17/2015