

University of Puerto Rico  
Mayagüez Campus

Department of Computer Science and Engineering

CIIC 5995/8995: Big Data Analytics  
Final Exam

Name: \_\_\_\_\_

TOTAL:     /100

Student ID: \_\_\_\_\_

Section: \_\_\_\_\_

June 29, 2017

Answer the following questions.

- I) (25 pts) **Problem I: MapReduce**: Briefly explain the concept of MapReduce, and provide an example on what problems you can solve with it.

II) (25 pts) Problem II: Spark RDD: Briefly explain the concept of the Spark RDDs and contrast their performance with that of MapReduce.

III) (25 pts) **Problem III: Supervised Learning:** Briefly explain the concept of Supervised Learning, and provide an example on what problems you can solve with it.

IV) (25 pts) **Problem IV: Unsupervised Learning:** Briefly explain the concept of Unsupervised Learning, and provide an example on what problems you can solve with it.