3D Tensor Completion

Marine Froidevaux, Supervisors: Dr. Jonas Ballani and Prof. Daniel Kressner

May 12, 2015

Contents

1 Introduction **1**

2 Basics of tensor algebra **1**

3 Alternating Least Squares Algorithm (ALS) **1**

4 GeomCG **1**

5 Results **1**

5.1 Bus Sequence 1

5.2 Inpainting 1

6 Conclusion **1**

7 Suggestion for further research **1**

1 Introduction

2 Basics of tensor algebra

3 Alternating Least Squares Algorithm (ALS)

4 GeomCG

5 Results

5.1 Bus Sequence

5.2 Inpainting

6 Conclusion

7 Suggestion for further research