Data Mining and Matrices
09 – Wrap Up

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FSS 2017
Topics

1. Introduction
2. Vectors & matrices
3. Singular value decomposition
4. Matrix completion
5. Non-negative matrix factorization
6. Spectral clustering
7. Link analysis
8. Tensors
Exams

- Requirement: $\geq 3$ assignments passed
- Oral, 25 minutes, English, no auxiliary material
- We test *understanding*, not learning by heart
- All material relevant (lectures, exercises, assignments)
- Dates: Jun 12, Jun 13
Ratings (lecture)

Generally well-received, learned a lot. Points with average rating > 1.5:

1. “pace was appropriate” (mean 1.9, md 2)
2. “summaries and repetitions helped” (mean 1.8, md 1)
3. “recommended literature helped” (mean 1.7, md 1)
4. “willingness to tailor lessons to student’s interests” (mean 1.7, md 1)
5. “connection to other courses demonstrated” (mean 1.8, md 1.5)
6. “well integrated with other courses” (mean 2.1, md 2)
7. “relevance made clear” (mean 1.6, md 1)
8. “I understood content” (mean 1.7, md 2)
Suggestions and criticisms (lecture)

Disclaimer: I couldn’t decipher everything.

1. starts at 8:30
2. 3h in a row
3. sometimes more knowledge in linear algebra necessary
4. same amount of lecture time for simple and difficult areas
5. slides uploaded quite late
6. upload digital notes on slides
7. put examples online as code
8. make teaching environment lighter (?)
9. tape the course
10. make jokes
Ratings (tutorial)

1. “amount of homework manageable” (mean 2.2, md 2)
2. “easier due to course material” (mean 1.7, 1)
3. “sufficient time available” (mean: 1.7, md. 2)
4. “possible to finish all sheets” (mean: 2.6, md. 2)
5. “pace was appropriate” (mean: 1.9, md. 2)
6. “class atmosphere was beneficial” (mean: 1.6, md. 1)
7. “enhanced my knowledge” (mean: 1.6; md. 1)
8. “helped for assignments” (mean: 2.3, md. 2)
9. “enjoyed attending” (mean: 1.9, md. 2)
10. “overall rating” (mean: 1.7, md. 1)
Suggestions and criticisms (tutorial)

1. More time with R
2. Sometimes assignment tasks depend on each other
3. Difficult exercises; sometimes one gets stuck
4. Provide less code in assignment scripts
5. Gap between assignments (practice) and exercises (theory)
6. Assignment + exercises too much (but OK since exercises not mandatory)
7. More competitions in assignments
8. More explanations of solution sheets
9. Allow for team submissions
10. More time for assignment 1
11. Motivate exercises better (e.g., explain relevance)
Help us!

• If you find any bugs in the provided material, let us know

• If you have any other ideas on how to improve the course, let us know

• If you are looking for a student job, let me know
All the best for the exam!