

## Study Guide Exam 3

What shall you prepare for Final exam:

- The topics covered in the weeks 12 through 15.
- The exercises from the homework done in class during weeks 12 through 15
- Project 2

| List of Topics   | Chapters   |
|--|------------|
| Maximum flow   | 26.1, 26.2 |
| Formulating maximum flow reductions; Bipartite matching  | 26.3       |
| Linear programming   | 26.3       |
| Formulating linear programs; LP-type programming   | 29         |
| Randomized algorithms  | 5          |
| Approximation algorithms: approximate vertex cover and traveling salesperson problem, approximation ratios, polynomial time approximation schemes (PTAS) | 35         |