

- This week (44) we will still focus on Petri Nets. Besides NPc proofs of reachability we will discuss Farkas algorithm and we will work on the exercises.
- If time allows we will discuss an algorithm for K shortest path finding (synthesis planning) and/or QSAR and PCA analysis.
- I will give an introduction to the 2nd mandatory project (option 1).

- Mandatory Reading (same as week 43):
 - The slides for the lectures should cover everything.
- Recommended Reading:
 - Murata, Tadao: *Petri Nets: Properties, Analysis and Applications*. In: Proceedings of the IEEE, Vol. 77, No. 4, pages 541-580. April 1989.
- Voluntary Reading:
 - Monika Heiner, David Gilbert, Robin Donaldson: *Petri Nets for Systems and Synthetic Biology*. SFM 2008: 215-264
 - Javier Esparza: *Decidability and Complexity of Petri Net Problems - An Introduction*. Petri Nets 1996: 374-428