

**Lecture 22, November 18, 2008****1. Generalized Stochastic Petri nets (GSPN) vs. Markov chains:**

- a) Definition of GSPN
- b) Markov chain as reachability graph of GSPN
- c) Example of system modeling with GSPNs
- d) computing Markov chain from GSPNs.

**Lecture 23, November 20, 2008****2. Combining Object-Orientedness with Petri nets (pp. 146-157):**

- a) CoOperative Objects – the structure; Object Control Structure - OBCS
- b) Examples of COO objects - class File, class File Handler; dining philosophers
- c) Petri nets inside objects – Petri nets represent internal concurrency of objects
- d) Objects inside Petri nets – Petri nets serve as coordination tool of objects' activities
- e) Integration of Object-Orientedness and Petri nets – two levels of refinement
- f) Dealing with issues of inheritance anomaly.