Lecture 3 – September 9, 2008

- 1. Reachability and Coverability graphs for Petri nets, i.e. how to know global behavior of the system algorithms with examples.
- 2. Three independent properties of Petri nets boundedness, liveness, and reversibility handout with definitions and with illustrating examples.
- 3. Vicinity preserving Petri net morphisms of Petri nets, i.e. how to control abstraction and refinement with example of renting agency.
- 4. Conflict and concurrency as dual concepts.
- 5. Subnet, dual net, and contact-free nets.

Lecture 4 – September 11, 2008

- 1. Subnet, dual net, and contact-free nets.
- 2. Composition, abstraction, refinement in Petri nets explained by example of two racing cars from the textbook.
- 3. Introduction to Colored Petri nets (CPNs) exercises explaining the concept to "enable a transition in CPNs".
- 4. Hardware and Software implementations of Petri nets directly from the model by example of two concurrent wagons and their control system.