

Notes from ITR Meeting on 9/16/2005

- Current research status
 - NSF Partnership Proposal rejected
 - Reviewer comments:
 - Important ideas discussed in proposal
 - Very focused
 - Overlap with ITR project
 - Good education component
 - Good management component
 - May revise and resubmit proposal
 - Dr. Chow's team:
 - Revised Petri net to reflect error states
 - Revised Simulink model based on Petri net
 - Simulation can be validated using empirical data from taped Trypsin test
 - If Petri net output could be represented in Java, a GOMSL cognitive model could interact with the simulated screening line via EGLEAN, a GOMSL editor
 - Jae prepared outline for IECON06 conference – “Timed Petri nets modeling and simulation of high-throughput biological screening lines”
 - Zheng prepared outline for conference paper – “Adaptive bandwidth allocation and sampling rate scheduling in network-based multi-high throughput screening process supervisory control”
 - Dr. Kaber's team:
 - Offered paper by Yoshikawa et al. (1997) as basis for implementing human operator in Petri net model. Authors used hierarchical Petri nets to model human cognitive behavior
 - Submitted paper for HRI conference – “User, robot and automation evaluations in high-throughput screening processes”
 - Dr. St. Amant's team:
 - Submitted paper for HRI conference – “Towards the creation of intuitive user interfaces for robotic control”
 - Developing hybrid ACT-R and PDDL model
 - Apex – software that creates PDL and CPM-GOMS models from CMN-GOMS models. May be useful for current development efforts. John, B. (2003) article will be made available for reference.
 - Lloyd created DVDs of Trypsin test videos recorded at CELISCA