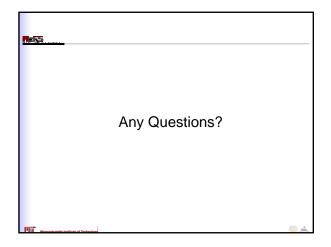
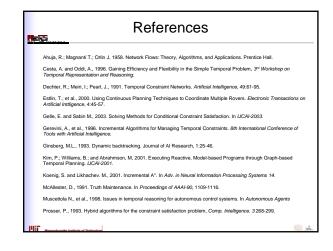


Conclusions ITC is an incremental shortest path algorithm that can repair distance graphs incrementally as the plan changes ITC's Novel Claims: 1.) A conflict extraction mechanism 2.) Allow multiple arc-changes at once 3.) Can incrementally repair inconsistent distance graphs Shows an order of magnitude improvement over non - incremental planning Applicable to any plan representation that uses disjunctions of simple temporal constraints.





References (continued) Rabideau, G., et.al., 1999. Iterative Repair Planning for Spacecraft Operations in the ASPEN System. ISAIRAS. Stergiou, K. and Koubarrakis, M., 1998. Backtracking Algorithms for Disjunctions of Temporal Constraints. 1581 Nat. Conference of Artificial Intelligence, 81-117. Tsamardinos, I., Vidal T., Pollack, M., 2003. CTP: A new constraint-based formalism for conditional, temporal planning. Constraints., vol. 8, no. 4, pp. 365-388. Williams, B. and Ragno, J., 2002. Conflict-directed A* and its role in model-based embedded systems. Journal of Discrete Applied Math.