

# THE DEVELOPMENT OF TRAIN CONTROL STRATEGIES AND SIMULATION TECHNIQUES FOR COMPLEX RAILWAY NETWORKS

This report details train control strategies, to explain how this knowledge has been incorporated into software and indicates the direction of future strategies development.

The General Area Time-based Train Simulator (GATTS) was conceived as a method of developing and evaluating train control strategies and route setting algorithms without resorting to experimenting on the real railway. It is designed to permit the simulation of the passage of large numbers of trains through complex junction and terminal areas.

Reference to the simulator is made throughout the report, with emphasis on the more recent simulation techniques resulting from (and facilitating the further) development of strategies.