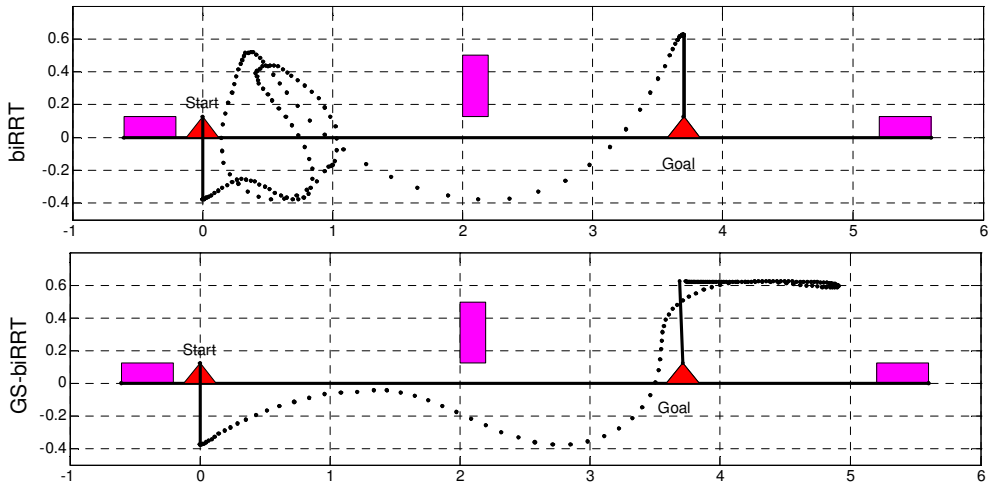

Fig. 9. One of the control strategies for a cart and pole swing-up among obstacles (units in meters). The GS-biRRT shows a motion more natural than the biRRT, consistent in 25 sets of simulation.

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