Dear Editors,

We would like to re-submit our paper “Learning transferable kinematic models of the motions of manipulated objects”. We have completed the revisions requested in your email of 15th February 2013. We note that you state in that email that because we have taken longer than one month you may regard it as a new submission.

We have completely rewritten the paper from beginning to end to meet all the requirements. We detail below the ways that we addressed the reviewers comments.

1. We have completely rewritten the sections on our learning algorithms, and given the prediction algorithm as pseudocode.
2. We have shortened the experimental results by a page. We have removed more minor results, leaving only the most representative.
3. We have polished the presentation throughout.
4. We have revised the conclusion as requested, removing experimental summaries.
5. We have given the paper a new section to make it more accessible where we outline the overall learning scheme we follow, and motivate it. In particular this emphasises the role of modularity in our scheme.
6. We have redrawn all the diagrams and figures, including redrawing the graphs as requested.
7. We have thoroughly reviewed earlier work in modelling of push manipulation, and other related areas. Emphasising where our work sits in relation to the literature.
8. We have also shortened the paper by one page by polishing and compacting the text, and removing unnecessary detail to make it more understandable.

We look forward to your feedback,

Yours sincerely

Jeremy L Wyatt

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