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Optimizing Model Predictive Control Horizons using Genetic Algorithm for Motion Cueing Algorithm

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**Highlights**

- A method is proposed for optimizing control and prediction horizons of MPC-based MCA.
- The previous trial-and error process for selecting MPC horizons is eliminated.
- A GA-based MCA is applied to improve the output and reduce computational load.
- The comparison of output results show the superiority of the proposed method.

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