

Accepted Manuscript

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

Arash Mohammadi, Houshyar Asadi, Shady Mohamed, Kyle Nelson, Saeid Nahavandi

PII: S0957-4174(17)30600-0
DOI: [10.1016/j.eswa.2017.09.004](https://doi.org/10.1016/j.eswa.2017.09.004)
Reference: ESWA 11525



To appear in: *Expert Systems With Applications*

Received date: 10 July 2016
Revised date: 1 September 2017
Accepted date: 2 September 2017

Please cite this article as: Arash Mohammadi, Houshyar Asadi, Shady Mohamed, Kyle Nelson, Saeid Nahavandi, Optimizing Model Predictive Control Horizons using Genetic Algorithm for Motion Cueing Algorithm, *Expert Systems With Applications* (2017), doi: [10.1016/j.eswa.2017.09.004](https://doi.org/10.1016/j.eswa.2017.09.004)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

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.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/4942998>

Download Persian Version:

<https://daneshyari.com/article/4942998>

[Daneshyari.com](https://daneshyari.com)