

## Accepted Manuscript

A real-time optimization framework for the time-varying economic environment

Qun Wu, Yugeng Xi, Zoltan Nagy, Dewei Li

PII: S0098-1354(18)30396-X  
DOI: [10.1016/j.compchemeng.2018.04.029](https://doi.org/10.1016/j.compchemeng.2018.04.029)  
Reference: CACE 6097

To appear in: *Computers and Chemical Engineering*

Received date: 16 December 2017  
Revised date: 19 April 2018  
Accepted date: 29 April 2018

Please cite this article as: Qun Wu, Yugeng Xi, Zoltan Nagy, Dewei Li, A real-time optimization framework for the time-varying economic environment, *Computers and Chemical Engineering* (2018), doi: [10.1016/j.compchemeng.2018.04.029](https://doi.org/10.1016/j.compchemeng.2018.04.029)



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**

- An improved RTO-MPC framework for the time-varying economic environment is proposed.
- The framework relies on the lookup table which is calculated offline by proposed algorithm.
- A designed online search algorithm is implemented on the lookup table to find a point as a temporary control target for satisfied economic performance.
- It costs less time to search a suboptimal solution than calculate the optimal one.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6594748>

Download Persian Version:

<https://daneshyari.com/article/6594748>

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