

## Accepted Manuscript

Title: Automatic Generation of Interlock Designs Using Genetic Algorithms

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PII: S0098-1354(17)30106-0  
DOI: <http://dx.doi.org/doi:10.1016/j.compchemeng.2017.02.042>  
Reference: CACE 5745

To appear in: *Computers and Chemical Engineering*

Received date: 20-1-2016  
Revised date: 20-2-2017  
Accepted date: 22-2-2017

Please cite this article as: Lepar, Y. Y., Wang, Y.-C., and Chang, C.-T., Automatic Generation of Interlock Designs Using Genetic Algorithms, *Computers and Chemical Engineering* (2017), <http://dx.doi.org/10.1016/j.compchemeng.2017.02.042>

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### Highlights

- A generic GA-based MATLAB code is developed for generating structural and maintenance specifications.
- An interlock superstructure can be constructed to facilitate systematic search for the optimal configurations.
- Novel and comprehensive models of the corrective and preventive maintenance programs can be incorporated.
- This optimization code is adopted to achieve simplicity, portability and maintainability in practical applications.
- Four examples are provided to demonstrate the aforementioned benefits.

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