

## Accepted Manuscript

Title: Implementing Discrete Element Method for Large-scale Simulation of Particles on Multiple GPUs

Author: Yuan Tian Sheng Zhang Ping Lin Qiong Yang  
Guanghui Yang Lei Yang



PII: S0098-1354(17)30181-3  
DOI: <http://dx.doi.org/doi:10.1016/j.compchemeng.2017.04.019>  
Reference: CACE 5793

To appear in: *Computers and Chemical Engineering*

Received date: 2-12-2015  
Revised date: 13-4-2017  
Accepted date: 18-4-2017

Please cite this article as: Tian, Y., Zhang, S., Lin, P., Yang, Q., and Yang, L., **Implementing Discrete Element Method for Large-scale Simulation of Particles on Multiple GPUs**, *Computers and Chemical Engineering* (2017), <http://dx.doi.org/10.1016/j.compchemeng.2017.04.019>

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:**

1. Discrete element method on multiple GPUs was developed.
2. Linked-cell list method provides benefits for communications among multiple GPUs.
3. The simulation of a large-scale dense particle system is achieved with a good parallel efficiency.

Download English Version:

<https://daneshyari.com/en/article/4764696>

Download Persian Version:

<https://daneshyari.com/article/4764696>

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