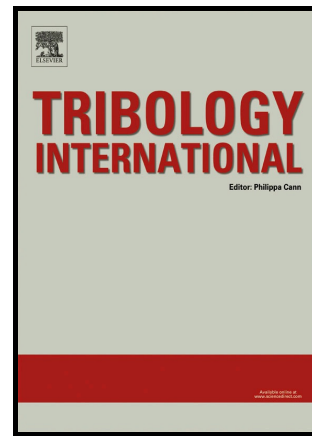


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Dynamic inter-particle friction of crushed limestone surfaces

K. Senetakis, C.S. Sandeep, M.S. Todisco



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**Dynamic inter-particle friction of crushed limestone surfaces**1  
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45 **K. Senetakis<sup>a\*</sup>, C.S. Sandeep<sup>b</sup>, M.S. Todisco<sup>c</sup>**6 <sup>a</sup>Civil Eng., MSc, PhD, Assistant Professor, Department of Architecture and Civil  
7 Engineering, City University of Hong Kong, Kowloon, Hong Kong SAR8 <sup>b</sup>Civil Eng., MTech, PhD student, Department of Architecture and Civil Engineering, City  
9 University of Hong Kong, Kowloon, Hong Kong SAR10 <sup>c</sup>Civil Eng., MSc, PhD, Post-Doctoral Research Fellow, Department of Architecture and Civil  
11 Engineering, City University of Hong Kong, Kowloon, Hong Kong SAR

12 ksenetak@cityu.edu.hk

13 sschitta2-c@my.cityu.edu.hk

14 ctodisco2-c@my.cityu.edu.hk

15 \*Corresponding author. Tel: +852 34424312

16  
1718 **ABSTRACT**19 The frictional characteristics of granular materials are of major interest in research and  
20 practice in geotechnical and petroleum engineering. In this study, micromechanical sliding  
21 experiments were conducted at the contacts of crushed limestone grains in a range of vertical  
22 forces from 0.6 to 5.0 N capturing the frictional response during a steady state sliding. This  
23 was obtained after the completion of small shearing paths of about 100 to 300 microns. The  
24 results indicated that the dynamic coefficient of friction was slightly lower than reported  
25 values in the literature on quartz grain contacts. These differences might be, partly, due to the

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