

## International Refereed Journals

1. BOTTIGLIONE F., FOGLIA M., MANTRIOTA G., MASTROVITO, M.: “*Liquid slosh in articulated tank vehicles: image based investigation in filed tests*”, International Journal of Heavy Vehicle Systems, Vol. 14, No. 4, pp. 441-459 (2007)
2. CARBONE G., BOTTIGLIONE F., “*Asperity Contact theories: Do They Predict Linearity Between Contact Area and Load*”, Journal of the Mechanics and Physics of Solids, Vol. 56 (8), pp. 2555-2572, (2008) DOI: 10.1016/j.jmps.2008.03.011
3. BOTTIGLIONE F., MANTRIOTA G., “*MG-IVT: an Infinitely Variable Transmission with Optimal Power Flows*”, ASME Journal of Mechanical Design Vol. 130 (11), No. 112603, (2008) DOI: 10.1115/1.2976802
4. BOTTIGLIONE F., CARBONE G., MANTRIOTA G., “*Fluid Leakage Calculation in Flat Seals: a Theoretical Approach*”, Tribology International, Vol. 42 (5) (2009), pp. 731-737 DOI: 10.1016/j.triboint.2008.10.002
5. BOTTIGLIONE F., CARBONE G., MANGIALARDI L., MANTRIOTA G. Leakage Mechanism in Flat Seals. JOURNAL OF APPLIED PHYSICS, vol. 106; p. 104902-1-104902-7, (2009) ISSN: 0021-8979, doi: 10.1063/1.3254187
6. CARBONE G., BOTTIGLIONE F. Contact mechanics of rough surfaces: a comparison between theories. MECCANICA (2010) ISSN: 0025-6455, doi: 10.1007/s11012-010-9315-y
7. BOTTIGLIONE F., MANTRIOTA G., “*Field Test and Validation of Dynamical Models of Tank Vehicles – Part I: Mathematical Model and Experimental Apparatus*” International Journal of Heavy Vehicle Systems, In Press
8. BOTTIGLIONE F., MANTRIOTA G., “*Field Test and Validation of Dynamical Models of Tank Vehicles – Part II: Experimental Tests and Results*” International Journal of Heavy Vehicle Systems, In Press

## Conference Proceedings

9. BOTTIGLIONE F., CARBONE G., MANTRIOTA G. “*Calculation of fluid leakage in ball valves*” 12th IFToMM World Congress, Besançon (France), June18-21, 2007.
10. BOTTIGLIONE F., MANTRIOTA G. “*Simplified model and experimental insight of partially filled tank vehicles dynamics*” 12th IFToMM World Congress, Besançon (France), June18-21, 2007.
11. CARBONE G., BOTTIGLIONE F. “*Contact Mechanics of Rough Surfaces – Persson’s Theory vs Multiasperity Contact Models*”, 7-10 June 2009, Pisa, Italy
12. BOTTIGLIONE F., CARBONE G., MANTRIOTA G., MANGIALARDI L., “*Leakage Mechanism in Flat Seals*”, 2<sup>nd</sup> South East European Conference on Computational Mechanics, 22-24 June 2009, Rhodes, Greece
13. BOTTIGLIONE F., MANTRIOTA G., “*Studio della dinamica di veicoli articolati adibiti al trasporto di liquidi*”, 1° Workshop sulla Dinamica dei Sistemi Multibody, Peastum 2006.
14. BOTTIGLIONE F., CARBONE G., MANTRIOTA G. “*Effect of Surface Roughness on the Sealing Efficiency of Ball Valves*”, XIV Congresso AIMETA, Brescia 2007.
15. BOTTIGLIONE F., MANTRIOTA G. “*Numerical and Experimental Investigation of the lateral dynamic behavior of articulated tank vehicle*”, XIV Congresso AIMETA, Brescia 2007.
16. BOTTIGLIONE F., MANTRIOTA G., “*Tank Vehicles: Modeling and Testing*”, XV Congresso AIMETA, Ancona, 14-17 Settembre 2009

17. BOTTIGLIONE F., CARBONE G., MANGIALARDI L., MANTRIOTA G.,  
“*Mechanism of Leakage in Flat Seals*”, XV Congresso AIMETA, Ancona, 14-17  
Settembre 2009.