

## PROF. GIACOMO MANTRIOTA

### Publicazioni su Riviste Scientifiche Internazionali (ultimi 10 anni)

1. Mangialardi L., Mantriota G.: Power flows and efficiency in infinitely variable transmissions. *Mechanism and Machine Theory*. Vol. 34, No. 7, pp. 973-994, 1999.
2. Mantriota G.: Communication on optimal grip points for contact stability. *The International Journal of Robotics Research*. Vol. 18, No. 5, pp. 502-513, May 1999
3. Carbone G., Mangialardi L., Mantriota G.: Theoretical model of metal V-belt drives during rapid ratio changing. *ASME Journal of Mechanical Design*. Vol. 123, No. 1, pp. 111-117, 2001.
4. Mangialardi L., Mantriota G.: Stability of an articulated vehicle with suspended cargo. *Heavy Vehicle Systems, A Series of the Int. J. of Vehicle Design*. Vol. 8, No. 1, pp. 83-102, 2001.
5. Mantriota G.: Power split CVT systems with high efficiency. *Proc. Instn Mech. Engrs, Part D- Journal of Automobile Engineering*. Vol. 215, No D3, pp. 357-368, 2001.
6. Mantriota G.: Theoretical and experimental study of a power split continuously variable transmission system: Part. 1. *Proc. Instn Mech. Engrs, Part D, Journal of Automobile Engineering*. Vol. 215, No D7, pp. 837-850, 2001.
7. Mantriota G.: Theoretical and experimental study of a power split Continuously Variable Transmission system: Part 2. *Proc. Instn Mech. Engrs, Part D, Journal of Automobile Engineering*. Vol. 215, No D7, pp. 851-864, 2001.
8. Carbone G., Mangialardi L., Mantriota G.: Shifting dynamics of metal pushing V-belt: rapid speed ratio variations. In: *Integrated Powertrains and their Control*, Professional Engineering Publishing Limited, Chapter 5, pp. 47-65, 2001.
9. Mantriota G.: Infinitely variable transmissions with automatical regulation. *Proc. Instn Mech. Engrs, Part D, Journal of Automobile Engineering*, Vol. 215, No D12, pp. 1267-1280, 2001.
10. Mantriota G.: Influence of suspended cargoes on dynamic behaviour of articulated vehicles. *Heavy Vehicle Systems, A Series of the Int. J. of Vehicle Design*. Vol. 9, No. 1, pp. 51-74, 2002.
11. Mantriota G.: Performances of a series infinitely variable transmission with a type i power flow. *Mechanism and Machine Theory*. Vol. 37, No. 6, pp. 579-597, 2002.
12. Mantriota G.: Performances of a parallel infinitely variable transmission with a type ii power flow. *Mechanism and Machine Theory*. Vol. 37, No. 6, pp. 555-578, 2002.
13. Carbone G., Mangialardi L., Mantriota G.: Influence of clearance between plates in metal pushing V-belt dynamics. *ASME Journal of Mechanical Design*. Vol. 124, No. 3, pp. 543, 557, 2002.
14. Carbone G., Mangialardi L., Mantriota G.: Fuel consumption of a mid class vehicle with Infinitely Variable Transmission. *SAE Transaction 2002 Journal of Engines*, Vol. 110, Section 3, pp. 2474-2483, 2002
15. El-Gindy D, Mantriota G.: Special issue on - New developments in heavy vehicle simulation - Preface. *Heavy Vehicle Systems, A Series of the Int. J. of Vehicle Design*. Vol. 10, Nos. ½, pag. V, 2003
16. Mantriota G. Directional stability of articulated tank vehicle: a simplified model. *Heavy Vehicle Systems, A Series of the Int. J. of Vehicle Design*. Vol. 10, Nos. ½, pp. 143-164, 2003.
17. Mantriota G., Pennestrì E.: Theoretical and experimental efficiency analysis of multi d.o.f. epicyclic gear trains. *Multibody System Dynamics*. Vol. 9, No. 5, pp. 389-408, 2003.

18. Festa P., Mantriota G. Mangialardi L.: Dynamic behaviour of a closed loop driver – car – caravan system. *Int. Journal of Vehicle Design*. Vol. 31, No. 4, pp. 408-426, 2003.
19. Carbone G., Mangialardi L., Mantriota G.: EHL visco-plastic friction model in CVT shifting behaviour. *Int. Journal of Vehicle Design*. Vol. 32, Nos. 3/4, pp. 332-357, 2003.
20. Carbone G., Mangialardi L., Mantriota G., Soria L.: Performance of a City Bus equipped with a Toroidal Traction Drive. *IASME Transactions*, Vol. 1, No. 1, pp. 16-23, 2004.
21. Carbone G., Mangialardi L., Mantriota G.: A comparison between the performance of full and half toroidal traction drives. *Mechanism and Machine Theory*. Vol. 39, pp. 921-942, 2004.
22. Carbone G., Mangialardi L., Mantriota G.: Influence of pulley deformations on the shifting mechanism of metal belt CVT. *ASME Journal of Mechanical Design*. Vol. 127, pp. 103-113, 2005.
23. Mantriota G.: Fuel consumption of a vehicle with power split CVT system. *Int. Journal of Vehicle Design*., Vol. 37, No. 4, pp. 327-342, 2005.
24. Mantriota G.: Stability of car-caravan systems under the influence of crosswind. *Int. Journal of Vehicle Systems Modelling and Testing*, Vol. 1, Nos. 1-3, pp. 168-191, 2005.
25. Mantriota G.: Theoretical model of the grasp with vacuum gripper. *Mechanism and Machine Theory*. Vol. 42, No. 1, pp. 2-17, 2007.
26. Mantriota G.: Optimal grasp of vacuum grippers with multiple suction cups. *Mechanism and Machine Theory*. Vol. 42, No. 1, pp. 18-33, 2007.
27. Bottiglione F., Foglia M.: Mantriota G., Mastrovito M. Liquid slosh in articulated tank vehicles: image based investigation in field test. *Heavy Vehicle Systems, A Series of the Int. J. of Vehicle Design*. Vol. 14, No. 4, pp. 441-459, 2007.
28. Bottiglione F., Mantriota G.: MG-IVT: an infinitely variable transmission with optimal power flows. *ASME Journal of Mechanical Design*, Vol. 130, Issue 11, 112603, 10 pages, 2008.
29. Bottiglione F., Carbone G., Mantriota G.: Fluid Leakage Calculation In Flat Seals: A Theoretical Approach. *Tribology International*, Vol. 42, No. 5, pp. 731-737, 2009.
30. Bottiglione F., Carbone G., Mangialardi L., Mantriota G.: Leakage Mechanism in Flat Seals. *Journal of Applied Physics*. Vol. 106, 104902, 2009.
31. Bottiglione F., Mantriota G.: Field Testing and Validation of Dynamical Models of Tank Articulated Vehicles: part I, models and test rig. *Int. J. of Heavy Vehicle Systems*, 2010.
32. Bottiglione F., Mantriota G.: Field Testing and Validation of Dynamical Models of Tank Articulated Vehicles: part II, on road tests and validation. *Int. J. of Heavy Vehicle Systems*, 2010..