

- M. Massaro, R. Lot, V. Cossalter, J. Brendelson, J. Sadauckas, "Numerical and Experimental Investigation on the Significance of Rider on Motorcycle Weave", *Vehicle System Dynamics*, 50(S1), 2012, pp.215-227, [DOI: 10.1080/00423114.2012.679284](https://doi.org/10.1080/00423114.2012.679284).
- M. Massaro, D.J. Cole, "Neuromuscular-steering dynamics: motorcycle riders vs car drivers", 2012 ASME Dynamic Systems and Control Conference, October 17-19, 2012, Fort Lauderdale, FL.
- M. Massaro, R. Lot, V. Cossalter, "A Virtual Motorcycle Driver to Simulate Real Manoeuvres from Experimental Data", *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, 226(9), 2012, pp. 1211-1219, [DOI: 10.1177/0954407012440217](https://doi.org/10.1177/0954407012440217).
- V. Cossalter, R. Lot, M. Massaro, "AN ADVANCED MULTIBODY CODE FOR HANDLING AND STABILITY ANALYSIS OF MOTORCYCLES", *Meccanica*, 46(5), 2011, pp. 943-958, [DOI: 10.1007/s11012-010-9351-7](https://doi.org/10.1007/s11012-010-9351-7).
- M. Massaro, "A Nonlinear Virtual Rider for Motorcycles", *Vehicle System Dynamics*, 49(9), 2011, pp.1477-1496, [DOI: 10.1080/00423114.2010.521843](https://doi.org/10.1080/00423114.2010.521843).
- V. Cossalter, R. Lot, M. Massaro, R. Sartori, "Development and Validation of an Advanced Motorcycle Riding Simulator", *Proceedings of the Institution of Mechanical Engineers, part D, Journal of Automobile Engineering*, 225(6), 2011, pp. 705-720, [DOI: 10.1177/0954407010396006](https://doi.org/10.1177/0954407010396006).
- V. Cossalter, A. Doria, R. Lot, M. Massaro, "The effect of rider's passive steering impedance on motorcycle stability: identification and analysis", *Meccanica*, [DOI: 10.1007/s11012-010-9304-1](https://doi.org/10.1007/s11012-010-9304-1).
- M. Massaro, R. Sartori, R. Lot, "Numerical Investigation of Engine-to-Slip Dynamics for Motorcycle Traction Control Applications", *Vehicle System Dynamics*, [DOI: 10.1080/00423110903530992](https://doi.org/10.1080/00423110903530992).
- V. Cossalter, R. Lot, M. Massaro, "The chatter of racing motorcycle", *Vehicle System Dynamics*, 46, 339-353, 2008, [DOI: 10.1080/00423110701416501](https://doi.org/10.1080/00423110701416501).
- V. Cossalter, R. Lot, M. Massaro, "The influence of Frame Compliance and Rider Mobility on the Scooter Stability", *Vehicle System Dynamics*, 45, 315-326, 2007, [DOI: 10.1080/00423110600976100](https://doi.org/10.1080/00423110600976100).
- V. Cossalter, R. Lot, M. Massaro, M. Peretto, "Motorcycle Steering Torque Decomposition", 2010 International Conference of Mechanical Engineering, London, U.K., 30 June - 2 July, 2010, [WCE Vol II](#).
- V. Cossalter, G. Dalla Torre, R. Lot, M. Massaro, "An advanced multibody model for the analysis of motorcycle dynamics", 3<sup>rd</sup> ICMEM International Conference on Mechanical Engineering and Mechanics, Beijing, P. R. China, October 21-23, 2009.
- R. Lot, M. Massaro, R. Sartori, "Advanced Motorcycle Virtual Rider", *Vehicle System Dynamics*, 46 Supplement, 215-224, 2008, [DOI: 10.1080/00423110801935822](https://doi.org/10.1080/00423110801935822).

- V. Cossalter, R. Lot, R. Sartori, M. Massaro, "A Motorcycle Riding Simulator for the Improvement of the Rider Safety", FISITA 2008 World Automotive Congress, Munich, Germany, September 14-19, 2008, [paper code: FISITA 2008/F2008-11-015](#).
- V. Cossalter, G. Dalla Torre, R. Lot, M. Massaro, "A multibody tool for the Optimization of the Suspension Setup and Geometric Layout of Racing Motorcycles", FISITA 2008 World Automotive Congress, Munich, Germany, September 14-19, 2008, [paper code: FISITA 2008/F2008-12-139](#).
- V. Cossalter, R. Lot, R. Sartori, M. Massaro, "A Motorcycle Guidance Algorithm", 4th European Conference on Structural Control, St. Petersburg, Russia, September 8-12, 2008.
- V. Cossalter, R. Lot, M. Peretto, Motorcycles Steady Turning , Journal of Automobile Engineering, Vol. 221 Part D.pp. 1343-1356, 2007, [DOI:10.1243/09544070JAUTO322](#).
- M. Massaro, R. Lot, "Application of Laplace Transform Techniques to Non-Linear Control Optimization", ECCOMAS Thematic Conference - Multibody Dynamics 2007, Milano, Italy, June 25–28, 2007.
- R. Lot, M. Massaro, "The Kick-Back of Motorcycles: Experimental and Numerical Analysis", ECCOMAS Thematic Conference - Multibody Dynamics 2007, Milano, Italy, June 25–28, 2007.
- R. Lot, M. Massaro, "A combined model of tire and road surface for the dynamics analysis of motorcycle handling", FISITA World Automotive Congress, Yokohama, Japan, 22-27, October 2006, [paper code: Yokohama2006/F2006V189](#).
- J. Sadauckas, V. Cossalter, "Elaboration and quantitative assessment of manoeuvrability for motorcycle lane change" , Vehicle System Dynamics: International Journal of Vehicle Mechanics and Mobility , Vol. 44, No. 12, pp. 903-920, 2006, [DOI:10.1080/00423110600742072](#).
- V. Cossalter, A. Doria, S. Garbin, R. Lot, "Frequency-domain Method for Evaluating the Ride Comfort of a Motorcycle", Vehicle System Dynamics: International Journal of Vehicle Mechanics and Mobility , Vol. 44, No. 4, pp. 339-355, 2006, [DOI:10.1080/00423110500420712](#).
- R. Lot, "A Motorcycle Tire Model for Dynamic Simulations: Theoretical and Experimental Aspects", Meccanica Vol. 39: 207-220, 2004, [DOI:10.1023/B:MECC.0000022842.12077.5c](#).
- V. Cossalter R. Lot, F. Maggio, "On the Stability of Motorcycle during Braking", Small Engine Technology Conference & Exhibition, Graz, Austria, September 2004. [SAE Paper: 2004-32-0018](#).
- V. Cossalter., R. Lot, F. Maggio, "The Modal Analysis of a Motorcycle in Straight Running and on a Curve", Meccanica Vol. 39: 1-16,., 2004, [DOI:10.1023/A:1026269926222](#).
- V. Cossalter, R. Lot, F. Maggio, "A Multibody Code for Motorcycle Handling and Stability Analysis with Validation and Examples of Application", Meting: Small

Engine Technology Conference & Exhibition, Madison, WI, USA, Session: Vehicle Issues (Part 1 of 4) September 2003, [SAE Paper: 2003-32-0035](#).

- V. Cossalter, R. Lot, F. Maggio, "The Influence of Tire Properties on the Stability of a Motorcycle in Straight Running and in Curve", SAE Automotive Dynamics & Stability Conference (ADSC) May 7-9, 2002, Marriott Renaissance Center, Detroit, Michigan, USA, [SAE Paper: 2002-01-1572](#).
- V. Cossalter, R. Lot, "A motorcycle multi-body model for real time simulations based on the natural coordinates approach", Vehicle System Dynamics: International Journal of Vehicle Mechanics and Mobility, Vol., 37, n°6 pp. 423-447, [DOI: 10.1076/vesd.37.6.423.3523](https://doi.org/10.1076/vesd.37.6.423.3523).