

Scientific Publications of Roberto Lot

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Journal articles

- [J32] Tavernini, D., Massaro, M., Velenis, E., Katzourakis, D.I., Lot R. 2013 "[Minimum Time Cornering: The Effect of Road Surface and Car Transmission Layout](#)", *Vehicle System Dynamics*, in press.
- [J31] Massaro, M., Cossalter, V., Cusimano, G. 2013 "[The effect of inflation pressure on tyre properties and motorcycle stability](#)", *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, in press.
- [J30] Massaro, M., Lot, R., Cossalter, V., Brendelson J., Sadauckas J. 2012 "[Numerical and Experimental Investigation of Passive Rider Effects on Motorcycle Weave](#)", *Vehicle System Dynamics*, vol. 50, no. S1, pp. 215-227.
- [J29] Massaro, M V., Lot, R., Cossalter "A virtual motorcycle driver to simulate real manoeuvres from experimental data", *Proceedings of the Institution of Mechanical Engineering Engineers, Part D: Journal of Automobile*, DOI: 10.1177/0954407012440217
- [J28] Biral, F., Lot, R., Rota S., Fontana M. & Huth, V., 2012, "Intersection Support System for Powered Two-Wheeled Vehicles: Threat Assessment Based on a Receding Horizon Approach", *IEEE Transactions on Intelligent Transportation Systems*, VOL. 13, NO. 2, JUNE 2012, pp- 805-816
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- [J21] Cossalter, V., Lot, R., Massaro, M. & Sartori R. 2011, "[Development and validation of an advanced motorcycle riding simulator](#)", *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, vol. 225, 6: pp. 705-720.
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- [J19] Cossalter, V., Lot, R. & Massaro, M. 2010, "Discussion on: "Experimental identification of the engine-to-slip dynamics for traction control applications in a sport motorcycle"", *European Journal of Control*, vol. 16, no. 1, pp. 113-114.
- [J18] Cossalter, V., Lot, R. & Rota, S. 2010, "[Objective and subjective evaluation of an advanced motorcycle riding simulator](#)", *European Transport Research Review*, vol. 2, no. 4, pp. 223-233.
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- [P2] Bertolazzi E, Biral F, Da Lio M, Lot R., Sartori R (2010). Procedimento per assistere un conducente a coprire un percorso, e relativo sistema di assistenza nella curva, motocicletta e prodotto informatico. (*Procedure to assist a driver to cover a path, and its support system in the curve, motorcycle and computer program*). TO2010A000454 submitted on 28/05/2010
- [P1] V. Cossalter, A. Bellati, R. Lot, A. Ambrogio (2005). Metodo e dispositivo di predizione di una caduta da un motociclo. (*Method and device for predicting a fall from a motorcycle*.) RM2005A000638 submitted on 21/12/2005

Conference papers

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- [C55] Massaro, M., Cossalter, V., Lot, R., Sartori, R., Rota, S., Formentini, M., Ferrari, M. "[A portable driving simulator for single-track vehicles](#)", IEEE International Conference on Mechatronics, Vicenza (ITALY) – February 27-28, March 1 2013.
- [C54] M. Massaro, R. Lot, V. Cossalter, "Real-Time Roll Angle Estimation for Two-Wheeled Vehicles", paper ESDA2012-82182, Proceedings of the 11th Biennial Conference on Engineering Systems Design and Analysis, July 2-4, 2012, Nantes, France
- [C53] M. Massaro, R. Lot, V. Cossalter, M. Massaro "The Significance of Powertrain Characteristics on The Chatter of Racing Motorcycles", paper ESDA2012-82274, Proceedings of the 11th Biennial Conference on Engineering Systems Design and Analysis, July 2-4, 2012, Nantes, France
- [C52] Caneri, Carmeni, Cossalter, Lot "Simulation of the drivetrain system of a four tilting wheels race vehicle", 2012 LMS European Vehicle Conference, April 18-19, 2012, Munich, Germany
- [C51] Lot R., Biral F., Cossalter V., Massaro M., Sartori R. "Advanced Rider Assistance Systems for motorcycles", AIMETA 2011, 12-15 settembre 2011, Bologna (Italia).

- [C50] Biral F, Lot R., Da Lio M. "Vehicle and driver modeling and threat assessment for driving support functions", AIMETA 2011, 12-15 settembre 2011, Bologna (Italia).
- [C49] F. Biral, R. Lot, S. Rota, R. Sartori, M. Da Lio: "Experimental evaluation of an advanced Curve Warning system for motorcycles", 22th IAVSD Symposium: Dynamics of Vehicles on Roads and Tracks, London, UK, August 14-19, 2011.
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