SÁNDOR BEREGI

PhD candidate

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RESEARCH INTERESTS Tyre and vehicle dynamics, nonlinear dynamics, time-delay, non-smooth systems

EMPLOYMENT

2018-	Assistant research fellow, MTA-BME Research Group on Dynamics of Machines and Vehicles, Hungarian Academy of Sciences
2018-	Engineer, Department of Applied Mechanics, Budapest University of Technology and Economics

EDUCATION

2015-	PhD in Mechanical Engineering - Budapest University of Technology and Economics, Faculty of Mechanical Engineering Department of Applied Mechanics, Budapest (Hungary)
2013-2015	Mechanical Engineer (MSc) Budapest University of Technology and Economics, Faculty of Mechanical Engineering, Budapest (Hungary)
2014	University of Bristol, Department of Engineering Mathematics (Erasmus+, MSc final project), Bristol (United Kingdom)
2009-2013	Mechanical Engineer (BSc) Budapest University of Technology and Economics, Faculty of Mechanical Engineering, Budapest (Hungary)

TEACHING ACTIVITY

2015-	Tutorials in Mechanics (Statics, Strength of Materials, Dynamics, Vibrations, Analytical Mechanics, Dynamics of Rolling – Stability and Autonomous Driving) Budapest University of Technology and Economics, Department of Applied Mechanics

AWARDS

Young Scientist Award of the 9th European Nonlinear Dynamics Conference (ENOC), Budapest (2017)

Excellent Tutor of the Faculty of Mechanical Engineering, Budapest University of Technology and Economics (2017)

Thesis award of the Hungarian Chamber of Engineers,
Department of Mechanical Engineering (2015)

SELECTED PUBLICATIONS

S. Beregi, D. Takács, Analysis of the tyre-road interaction with a non-smooth delayed contact model, Multibody System Dynamics, 2018., https://doi.org/10.1007/s11044-018-09636-2

S. Beregi, D. Takács, C. Hős, Nonlinear analysis of a shimmying wheel with contact-force characteristics featuring higher order discontinuities, Nonlinear Dynamics, Vol. 90, Issue 2, pp. 877-888., 2017.

S. Beregi, D. Takács, D. A.W. Barton, Hysteresis effect in the nonlinear stability of towed vehicles, ASME IDETC/CIE 2017, Cleveland, Ohio, USA, 2017.

S. Beregi., D. Takács, G. Stépán, Tyre induced vibrations of the car-trailer system, Journal of Sound and Vibration, Vol., pp. 214-227, 2016.