Authors	Title	Publication	Volume	Number	Pages	Year	Publisher
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Control-oriented modelling of the variable-geometry Suspension for independent steering purposes**					2016	Budapest University of Technology and Economics
Németh, Balázs; Fényes, Dániel; Gáspár, Péter;	**Control of a variable-geometry suspension as independent wheel steering**	Advanced Vehicle Control: Proceedings of the 13th International Symposium on Advanced Vehicle Control (AVEC'16), September 13-16, 2016, Munich, Germany					
Németh, Balázs; Gáspár, Péter; Fényes, Dániel; Bokor, József;	**Robust control design for the integration of steering and torque vectoring using a variable-geometry suspension system**	2017 American Control Conference (ACC)					
Cited by:	*W. Wang, X. Chen and J. Wang, "Motor/Generator Applications in Electrified Vehicle Chassis—A Survey," in IEEE Transactions on Transportation Electrification, vol. 5, no. 3, pp. 584-601, Sept. 2019.*						
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Handling of zero-crossing problems in the design of variable-geometry suspension control**	2016 IEEE 17th International Symposium on Computational Intelligence and Informatics (CINTI)			261	2016	CRC Press
Németh, Balázs; Gáspár, Péter; Fényes, Dániel; Bokor, József;	**Reconfigurable Control Design of Steering and Torque Vectoring Based on Reachability Set Analysis**	IFAC-PapersOnLine					
Németh, Balázs; Fényes, Dániel; Gáspár, Péter; Bokor, József;	**Control design of an electro-hydraulic actuator for variable-geometry suspension systems**	2017 25th Mediterranean Conference on Control and Automation (MED)			291-296	2017	IEEE
Németh, Balázs; Fényes, Dániel; Gáspár, Péter;	**Independent wheel steering control design based on variable-geometry suspension**	IFAC-PapersOnLine			000237-000242	2016	IEEE
Cited by:	*W. Wang, X. Chen and J. Wang, "Motor/Generator Applications in Electrified Vehicle Chassis—A Survey," in IEEE Transactions on Transportation Electrification, vol. 5, no. 3, pp. 584-601, Sept. 2019.*		50	1	3702-3707	2017	Elsevier
	Deepika Pujari , R. N. Yerrawar "Design And Experimental Evaluation of Steering Knuckle Arm For Stiffness", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)				180-185	2017	IEEE
Németh, Balázs; Fényes, Dániel; Gáspár, Péter; Bokor, József;	**Trajectory tracking based on independently controlled variable-geometry suspension for in-wheel electric vehicles**	2016 IEEE 55th Conference on Decision and Control (CDC)	49	11	426-431	2016	Elsevier
Cited by:	*(Adaptive Lane Keeping Scheme using only front wheel steering)前輪操舵のみを用いた適応車線追従制御今池真弘, 荒木拓真, 大屋勝敬 - 自動制御連合講演会講演論文集 第 60 ..., 2017 - jstage.jst.go.jp*				1570-1575	2016	IEEE
Németh, Balázs; Fényes, Dániel; Gáspár, Péter; Mihály, András;	**Analysis and robust control design of a steering system for autonomous vehicles**	2017 IEEE International Conference on Advanced Intelligent Mechatronics (AIM)			535-540	2017	IEEE
Cited by:	*A. Swief and M. El-Habrouk, "A survey of Automotive Driving Assistance Systems technologies," 2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 2018, pp. 1-12.*						
	Yasir K. Al-Nadawi, Hothaifa Al-Qassab, Daniel Kent, Su Pang, Vaibhav Srivastava, Hayder Radha "Design of Robust Path-Following Control System for Self-driving Vehicles Using Extended High-Gain Observer", https://arxiv.org/abs/2003.06333						
Fányes, Dániel; Németh, Balázs; Gáspár, Péter;	**Optimal control design of a variable-geometry suspension with electro-hydraulic actuator**	2017 IEEE 15th International Symposium on Applied Machine Intelligence and Informatics (SAMI)			000337-000342	2017	IEEE
Fényes, Dániel; Németh, Balázs; Asszonyi, Máté; Gáspár, Péter;	**Side-slip angle estimation of autonomous road vehicles based on big data analysis**	2018 26th Mediterranean Conference on Control and Automation (MED)			849-854	2018	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Analysis of autonomous vehicle dynamics based on the big data approach**	2018 European Control Conference (ECC)			219-224	2018	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Data-Driven Reachability Analysis for the Reconfiguration of Vehicle Control Systems**	IFAC-PapersOnLine	51	24	831-836	2018	Elsevier
Cited by:	*Ma Y, Wang Z, Yang H, Yang L "Artificial intelligence applications in the development of autonomous vehicles: A survey" IEEE/CAA Journal of Automatica Sinica (2020) 7(2) 315-329*						
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**A Novel Big-data-based Estimation Method of Side-slip Angles for Autonomous Road Vehicles**					2018	SciTePress
Németh, Balázs; Fényes, Dániel; Gáspár, Péter; Bokor, József;	**Coordination of Independent Steering and Torque Vectoring in a Variable-Geometry Suspension System**	IEEE Transactions on Control Systems Technology					
Cited by:	*Kral, J., Palko, M., Palko, M., & Pavlikova, L. (2020). Design and development of ultra-light front and rear axle of experimental vehicle, Open Engineering, 10(1), 232-237. doi: https://doi.org/10.1515/eng-2020-0032*		27	5	2209-2220	2018	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Control design of variable-geometry suspension systems using a reconfiguration strategy**	2018 IEEE 18th International Symposium on Computational Intelligence and Informatics (CINTI)			000081-000086	2018	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Enhancement of autonomous vehicle control via the contributions of big data analysis**					2019	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Lateral control design for autonomous vehicles using a big data-based approach**					2019	IAVSD
Fényes, Dániel; Németh, Balázs; Gáspár, Péter; Pup, D; Szauter, F;	**Study on a road surface estimation method based on big data analysis**					2019	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**Impact of big data on the design of MPC control for autonomous vehicles**	2019 18th European Control Conference (ECC)			4154-4159	2019	IEEE
Fényes, Dániel; Németh, Balázs; Gáspár, Péter;	**A predictive control for autonomous vehicles using big data analysis**	IFAC-PapersOnLine	52	5	191-196	2019	Elsevier
Dalvári, Máté; Fényes, Dániel; Mihály, András; Németh, Balázs; Gáspár, Péter;	**Camera-based lateral driver modelling for vehicle control design purposes**					2018	
Fényes, Dániel; Németh, Balázs; Gáspár, Péter; Asszonyi, Máté;	**Possibilities of vehicle state estimation using big data approaches**					2018	
Fényes, Dániel; Németh, Balázs; Gáspár, Péter; Szabó, Zoltán;	**Road surface estimation based LPV control design for autonomous vehicles**	IFAC-PapersOnLine	52	28	120-125	2019	Elsevier

Summary:
Conference paper: 23
Journal paper: 1
Independent citation: 8

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