

Lista de lucrări conform Metodologiei cadru, art. 15

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Teza de doctorat

Cercetări privind impactul dintre autovehicul și pieton

Cărți și capitole în cărți

1. Dima Dragoș, **Țolea Bogdan**, Reconstrucția accidentelor rutiere - Îndrumar de laborator ISBN 978-606-10-2016-4, Editura Universității din Oradea, 2018
2. **Țolea Bogdan**, Dinamica Autovehiculelor – Partea I, ISBN 978-606-10-2060-7, Editura Universității din Oradea, 2019
3. **Țolea Bogdan**, Radu Alexandru Ionuț, Aspecte privind reconstrucția accidentelor rutiere, ISBN 978-606-10-2029-4, Editura Universității din Oradea, 2019

Articole in extenso în reviste din fluxul internațional principal

1. **Tolea, Bogdan**, Radu, Alexandru, Horia, Beles & Csaba, Antonya. 2017. "Influence Of The Geometric Parameters Of The Vehicle Frontal Profile On The Pedestrian'S Head Accelerations In Case Of Accidents." *International Journal of Automotive Technology*.
2. Radu, Alexandru, Cofaru, Corneliu, **Tolea Bogdan**. 2017. "Mathematical model validated by a crash test for studying the occupant's kinematics and dynamics in a cars' frontal collision." *International Journal of Automotive Technology*
3. Radu, Alexandru, Cofaru, Corneliu, **Tolea Bogdan**. Popescu, M., 2017. Development of a new recline mechanism in order to reduce the "whiplash" effect using a virtual model. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, p.0954407017731988.
4. **Tolea, Bogdan.**, Tarulescu, S., Trusca, D.D., Toganel, G. and Radu, A.I., 2016, October. The Assessment of the Head Injury of a Pedestrian in Comparison with a Cyclist. In *International Congress of Automotive and Transport Engineering* (pp. 805-811). Springer International Publishing – lucrare indexata Proceedings ISI
5. **Tolea, Bogdan**, Daniel Dragos Trusca, Csaba Antonya, Alexandru Ionut Radu, and Dragos Sorin DIMA. "Research Regarding Pedestrian Visibility During Night-Time Using Photo Processing." In *International Congress of Automotive and Transport Engineering*, pp. 881-888. Springer International Publishing, 2016. - lucrare indexata Proceedings ISI
6. Radu, Alexandru Ionut, Corneliu Cofaru, **Bogdan Tolea**, Daniel Dragos Trusca, and George Toganel. "Research Regarding the Influence of Vehicle's Safety Restraint Systems on Its Occupants in Case of Rear-End Collision." In *International Congress of Automotive and Transport Engineering*, pp. 798-804. Springer International Publishing, 2016. - lucrare indexata Proceedings ISI
7. Radu, Alexandru Ionut, Corneliu Cofaru, **Bogdan Tolea**, and Mihaela Popescu. "Study regarding seat's rigidity during rear end collisions using a MADYMO occupant model." In *IOP Conference Series: Materials Science and Engineering*, vol. 252, no. 1, p. 012004. IOP Publishing, 2017 - - lucrare indexata Proceedings ISI
8. Jovanov, D, Vollpracht, H.J, Beles, Horia, Popa, Virgil and **Bogdan Tolea**, 2017, October. Most common road safety engineering deficiencies in South Eastern Europe as a part of safe

system approach. In *IOP Conference Series: Materials Science and Engineering* (Vol. 252, No. 1, p. 012021). IOP Publishing. - lucrare indexata Proceedings ISI

9. RADU, Alexandru Ionut, Daniel Dragos TRUSCA, George TOGANEL, and **Bogdan TOLEA**. "EFFICIENCY ANALYSIS OF PASSIVE SAFETY SYSTEMS IN VEHICLES IN THE CASE OF FRONTAL COLLISION USING EXPERIMENTAL TESTS." *Journal of Automotive Engineering* (2019): 55.
10. **TOLEA, Bogdan Adrian**, Ionuț RADU, Dragoș Sorin DIMA, and Horia BELEȘ. "The influence of the suspension upon the axle weight distribution for heavy trucks." *Journal of Automotive Engineering* (2018): 75.

Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate.

11. **Tolea, Bogdan**, Radu, Alexandru Ionuț., Beles, Horia, Dragomir, George. and Moca Sorin, 2019, October. Study of a Car-to-Pedestrian Collision in Case of Vehicle's Post-impact Braking. In *SIAR International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering* (pp. 375-382). Springer, Cham.
12. **Tolea, Bogdan**, Daniel Trusca, Csaba Antonya, Horia Beles. 2015b. "The influence of the frontal profile design of a vehicle upon the pedestrian safety at low velocity." *Annals of DAAAM & Proceedings* no. 26 (1). Scopus
13. **Tolea, Bogdan**, Trusca, Daniel, Antonya, Csaba. 2016. Research Regarding Night-Time Pedestrian Visibility. In *Proceedings of the European Automotive Congress EAEC-ESFA 2015*, pp. 757-764. Springer International Publishing, 2016.
14. **Bogdan, Tolea**, Radu Alexandru Ionut, and Beles Horia. "The Overlap Influence in Case of a Car-to-Pedestrian Accident." In *International Congress of Automotive and Transport Engineering*, pp. 820-827. Springer, Cham, 2018.
15. Beles Horia, **Tolea Bogdan Adrian**, Crisan GF, Dogar CA, Ciotachiev VV. The assessment of pedestrian's head injury risk at the contact with the vehicle's hood. In *IOP Conference Series: Materials Science and Engineering 2019 Aug* (Vol. 568, No. 1, p. 012095). IOP Publishing.
16. Radu, Alexandru Ionut, Corneliu Cofaru, **Bogdan Tolea**, Daniel Dragos Trusca, and Horia Beles. "Research Regarding Occupant's Movement in the Case of Frontal Collision Using High-Speed Video Recording." In *International Congress of Automotive and Transport Engineering*, pp. 790-797. Springer International Publishing, 2016.
17. Radu, Alexandru Ionut, Corneliu Cofaru, Daniel Dragos Trusca, **Bogdan Tolea**, Horia Beles. "Study Regarding the Visibility Geometry in Vehicles Rear View Mirrors". In *International Congress of Automotive and Transport Engineering*.
18. Radu, Alexandru-Ionut, Daniel-Dragos Trusca, **Tolea Bogdan**, Corneliu Cofaru. "Research Regarding the Effects of Emergency Vehicle Braking upon Its Occupants." In *Proceedings of the European Automotive Congress EAEC-ESFA 2015*, pp. 757-764. Springer International Publishing, 2016.