

## Lista de lucrări conform Metodologiei cadru, art. 15

### Articole in extenso în reviste cotate ISI, proceedings indexate ISI Thomson Reuters sau SAE

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*. –factor de impact 0.821, si SRI 0.641
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* - factor de impact 0.821, si SRI 0.641
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. – factor de impact 0.802 si SRI de 0.723
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

### Articole publicate în reviste naționale și volumele unor manifestări științifice indexate în BDI recunoscute de comisia CNATDCU<sup>1</sup>.

9. **Tolea, Bogdan**, Antonya, Csaba, Beles, Horia. 2015a. "Assesment of the injury severity of the pedestrian lower limbs at the collision with a vehicle." *ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering*

10. **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
11. **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.
12. 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.
13. 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*.
14. Trusca, Daniel, **Bogdan Tolea**, Radu Ionut. 2015. "Research regarding the severity of the injury of the pedestrian's head with the vehicle's bonnet " *ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering*
15. Beles, Horia, Rus Alexandru, Dragomir George, Mitran Tudor, Trusca Daniel, **Bogdan Tolea**. "Researches regarding the continuous improvement of the abs (anti-lock braking system) operation for the passenger cars." *Annals of DAAAM & Proceedings* 26, no. 1 (2015)
16. Gîrbacia, Florin, Butnariu Silviu, Voinea Daniel, **Tolea Bogdan**, Gîrbacia Teodora, and Doina Pîslă. "A Virtual Reality System for Pre-Planning of Robotic-Assisted Prostate Biopsy." In *Applied Mechanics and Materials*, vol. 772, pp. 585-590. Trans Tech Publications (2015).
17. 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.
18. Popa, Virgil, Horia Beles, **Tolea Bogdan**, George Dragomir, and Tudor Mitran. "Studies Regarding Occupant Kinematics in the Vehicle at the Frontal and Rear Impact." *Applied Mechanics & Materials* 822 (2016).
19. POPA, Virgil, Horia Beles, **Tolea Bogdan**. 2014. "Researches regarding mathematical modeling of the frontal collision of two vehicles." *ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering*,