



LISTA LUCRARI RELEVANTE

- [1] Radu A. I., Toganel G., Trusca D., 2021, Mathematical model validated by a crash test to be used as kinematic and dynamic study for side impacts, International Journal of Automotive Technology, Acceptata spre publicare, **Factor de impact: 1.245 si SRI 0.642**
- [2] Radu, A.I., Cofaru, C., Tolea, B. and Popescu, M., 2018. 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, 232(12), pp.1701-1712, **Factor de impact: 1.253 si SRI 0.838**
- [3] Ionut, Radu Alexandru, Cofaru Corneliu, and Tolea Bogdan. "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 18.6 (2017): 1017-1025, **Factor de impact: 0.821 si SRI 0.588**
- [4] Tolea, B., **Radu**, A. I., Beles, H., & Antonya, C. (2018). 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, 19(1), 85-98., **Factor de impact: 0.821 si SRI 0.588**
- [5] Radu, A. I., Trusca, D. D., Toganel, G. R., & Benea, B. C. (2020, December). Designing and testing a stand used to simulate the dummy head impact with different surfaces using CAD software. In IOP Conference Series: Materials Science and Engineering (Vol. 997, No. 1, p. 012058). IOP Publishing.
- [6] RADU, A. I., TRUSCA, D. D., & TOGANEL, G. (2020). PREDICTION MODEL FOR SEDAN CLASS VEHICLE BRAKING DISTANCE ON A FLAT SURFACE USING EXPERIMENTAL BRAKING TESTS FOR DIFFERENT ROAD SURFACES. Journal of Automotive Engineering, 89.
- [7] Radu, A. I., Trusca, D. D., Toganel, G., & Tolea, B. (2019). Efficiency Analysis of Passive Safety Systems in Vehicles in the Case of Frontal Collision Using Experimental Tests. Journal of Automotive Engineering, 55.
- [8] Radu, A. I., Trusca, D. D., Toganel, G. R., & Benea, B. (2019, August). Study regarding the influence of passive safety systems on the occupant in the case of Automatic Emergency Braking System activation. In IOP Conference Series: Materials Science and Engineering (Vol. 568, No. 1, p. 012052). IOP Publishing.
- [9] RADU, A. I., TRUSCA, D. D., TOGANEL, G., & BENE, B. (2020). STUDY REGARDING THE SIDE IMPACT CONSEQUENCES UPON THE VEHICLE OCCUPANT USING ACCIDENT RECONSTRUCTION SOFTWARE. Journal of Automotive Engineering, 41.



- [10] Radu, A. I., Cofaru, C., Tolea, B., & Popescu, M. (2017, October). 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.

TEZA DE DOCTORAT

Studii și cercetări privind evaluarea consecințelor accidentelor de circulație asupra ocupanților autoturismelor – Teza de doctorat – Radu Alexandru Ionuț

RECENZOR PENTRU URMĂTOARELE LUCRĂRI

1. Simulation of car collision with an impact block, conferinta CAR 2017, ID lucrare #98, data recenziei: 03-08-2017, Status: Accepted, Publicata.
2. Development and Testing of a Simplified Dummy for Frontal Crash, jurnalul: Experimental Techniques, ID lucrare: EXTE-D-17-00038, data recenziei: 02-12-2017, Status: Published
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4. A finite element model of a high-stature male pedestrian for simulating car-to pedestrian collisions, jurnalul: IJAT, ID lucrare: IJAT-18-0050, data recenziei: 01-07-2018, Status: Published
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6. INJURIES ANALYSIS OF REAR ROW OCCUPANTS EXPOSED TO VEHICLE'S FRONTAL OBLIQUE COLLISION, jurnal: IJAT, ID lucrare: IJAT-20-0538, data recenziei: 19-11-2020, status: Accepted

VOLUM DE SPECIALITATE

TOLEA Bogdan Adrian, RADU Alexandru Ionuț, *Aspecte privind reconstrucția accidentelor rutiere*, 2019, Editura Universității din Oradea, ISBN 978-606-10-2029-4

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