

PERSONAL INFORMATION

Ioan SZÁVA

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POSITION
IOSUD UTBV

PhD Coordinator at Transilvania University of Braşov
Doctoral studies field: Mechanical Engineering
Since 2001

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Strength of Materials, Mechanical Vibrations and Experimental Methods of the Solid Bodies

WORK EXPERIENCE

Replace with dates (from - to)

2000- up today - full university professor at Transilvania University of Brasov;
1994-2000 - Assoc. professor at Transilvania University of Brasov;
1981-1994 - Lecturer at University of Brasov;
1975-1981 - Assistant; at University of Brasov ;
1972-1975 - Research engineer in an Automotive Research Institute, Brasov

EDUCATION AND TRAINING

Replace with dates (from - to)

1993 PhD thesis, in the field of mechanical Engineering, Transylvania University of Brasov;
1986-1987 Post-university courses on Experimental methods, Politehnica Institute of Bucharest;
▪ 1967-1972 - Engineer degree, Automotive Engineering, University of Brasov

PERSONAL SKILLS

Mother tongue(s)

Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B2	B2	B1
Certificate nr. 685/18.06.2012, Transilvania University of Braşov					
French	A2	A2	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

▪ good communication skills gained through my experience as leadership and member of teams from 25 research grants and manager of 15 grants

Organisational / managerial skills

▪ during over 40 years I transmitted knowledge to students;
▪ I was co-organizer of Summer Schools (2011-2013) in the field of composite materials, organised in Kosice, Prague and Braşov

Job-related skills

▪ Strength of Materials, Mechanical Vibrations and Experimental Methods in Stress-strain states' evaluations of the solid bodies;
▪ Since 2001 I am PhD leadership, with 6 finalized PhD thesis and one other in work

Digital skills

- good command of office suite Microsoft Office™

ADDITIONAL INFORMATION

- Publications 185 scientific papers, presented in over 50 international scientific conferences and over 30 national (domestic) ones, as well as published in scientific journals
- Presentations 24 national grants and 1 international grant
- Projects 6 books in Strength of materials, Mechanical vibrations as well as in Experimental stress and strain
- Conferences states evaluation of the solid bodies.
- H Indexes H-index : 5, i1Q-index:2 (<https://scholar.google.de/citations?user=AI09aVwAAAAJ&hl=cs>)

ANNEXES

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. Evaluation of the clean softwood components' longitudinal Young's moduli by means of overall measurements, *Wood Research*, 2015, ISSN: 1336-4561, <http://www.centrumdp.sk/wr/201504/04.pdf>
2. Behaviour of a New Heliopol-Stratimat 300 Composite Laminate, *Journal of Optoelectronics and Advanced Materials*, 2013, ISSN:1842-6573
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=P1gAyrizMPP11T1tOmY&page=2&doc=18&cacheurlFromRightClick=no
3. Experimental analysis of dental implant biomechanics related to vertical and horizontal dimensions of the fixing substrate using Digital Image Correlation method, *Materiale Plastice*, 2016, ISSN: 0025-5289
<http://www.revmaterialeplastice.ro/pdf/TAMAS%20SZAVA%20D%204%2016.pdf>
4. Intumescent paint fire protected steel structures elements' internal stress state experimental approach, using dilatometer, *Metalurgia International*, 2009, ISSN: 1582-2214
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=P1gAyrizMPP11T1tOmY&page=4&doc=38&cacheurlFromRightClick=no
5. Plastic materials used in experimental investigations regarding dental implants biomechanics, *Materiale Plastice*, 2015, ISSN: 0025-5289
<http://www.revmaterialeplastice.ro>
6. Temperature distribution of the straight bar, fixed into a heated plane surface, *Fire and Materials*, Volume 42, Issue 2 March 2018, Pages 202-212, ISSN: 0308-0501 <https://onlinelibrary.wiley.com/doi/abs/10.1002/fam.2481>
7. A New Approach in the Poisson Ratios Establishing of the Soft-Wood Materials Components, *TRANSACTIONS of FAMENA*, Vol. 36, No. 2, 2012, ISSN:1333-1124 <http://famena.fsb.unizg.hr/famena.php?lang=eng&famena=40>
8. Mechanical Stress Exploration Inside of Dental Filling Materials by Means of Electronic Speckle Pattern Interferometry/Shearography *Materiale Plastice*, 2017, ISSN: 0025-5289
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitationReport&qid=46&SID=F1LgktkerBQiB4itblw&page=1&doc=4
9. An Application of Dimensional Model Theory in the Determination of the Deformation of a structure, Engineering Mechanics, *International Journal for Theoretical and Applied Mechanics*, Engineering Academy of the Czech Republic on behalf of the Association of Engineering Mechanics, 2006, Volume 13, No.1 ISSN: 1210-2717 http://seminare.fav.zcu.cz/media/document/2-szava_dimensional_analysis.pdf
10. Glass Fabric-reinforced Polyte 440-M888 Composite Laminated Subjected to Tensile Load on Warp Direction, *Procedia Technology*, 2015, ISSN: 2212-0173
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=P1gAyrizMPP11T1tOmY&page=1&doc=8&cacheurlFromRightClick=no
11. New Methods in Bio-mechanical Experimental Investigations, *Proceedings of the 50th Annual Conference on Experimental Stress Analysis, EAN-2012*, ISBN 978-80-01-05060-6 ISSN: 978-80-01-05060-6
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=P1gAyrizMPP11T1tOmY&page=3&doc=22&cacheurlFromRightClick=no
12. Optical Experimental Methods Applied In the Investigation of the Orthotropic and Anisotropic Materials and Structures, *Pro Ligno*, 2013, ISSN: 2069-7437 https://scholar.google.ro/scholar?cites=11068951017392888494&as_sdt=2005&sciocr=0,5&hl=ro
13. Reduced scale model's experimental results used in further FEM analysis, *Journal of Civil Engineering*, 2010, ISSN: 1336-9024
https://scholar.google.ro/scholar?cites=16958236943658588186&as_sdt=2005&sciocr=0,5&hl=ro
14. The Intumescent Paint Layer's Thickness Influence on the Load-Bearing Capacity of the Steel Joints, *Advanced Materials Research Journal*, 2014, ISSN: 10.4028, <http://www.scientific.net/AMR.969.332>
15. Experimental investigation on one most used steel joint with intumescent paint, *Volume of the International Conf. Design, Fabrication and Economy of Metal Structures*, 2013 ISBN 978-3-642-36690-1 ISSN: 978-3-642-36691-8
<http://link.springer.com/book/10.1007%2F978-3-642-36691-8>
16. Innovative Solution for Portable Wind Turbines, Used on Ships, *Procedia Technology*, 2015, ISSN: 2212-0173

<http://www.sciencedirect.com/science/article/pii/S2212017315001036>

17. Video Image Correlation method involved in dental implant's analysis, *JIDEG (Journal of Industrial Design and Engineering Graphics)*, 2014, ISSN: 1843-3766

<http://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jml=18433766&AN=116239557&h=nLRNWtpRyggeh7V1%2b3HNoJcS3zSXhn1kAqZfHCFILkvqMDXIEfKa8mqi8GwLK08eU0KjdvbroQ6n29fQeDdSrA%3d%3d&cr=c&resultNs=AdminWebAuth&resultLocal=ErrCriNotAuth&crhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrn%3d18433766%26AN%3d116239557>

18. New Testing Bench For The Rolling Friction Coefficient's Evaluation, *ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering* Tome XIII [2015] – Fascicule 3, ISSN: 1584-2673, <http://annals.fih.upt.ro/pdf-full/2015/ANNALS-2015-3-38.pdf>

19. Investigarea prin metoda Interferometriei Holografice a stării de solicitare a tibiei umane conservate *Revista de Ortopedie și traumatologie*, 2000, Vol.10., nr.1-2, pag.61-66, ISSN: 1220-6466, <https://www.ncbi.nlm.nih.gov/nlmcatalog/9615074>

20. Theoretical and experimental investigations on early-, and late-wood mechanical characteristics establishing, *Pro Ligno*, 2011, ISSN: 1843-2689, <http://www.proligno.ro/en>

Ioan SZÁVA

Signature:

30.09.2018.

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