

Cătălin Alexandru



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Cătălin Alexandru. Full Professor of Transilvania University of Braşov from 2004 till to now. He was hired as an Assistant Professor of Transilvania University in 1992. Since 2016, he is the Director of Council for Doctoral Studies (equivalent to vice-rector for doctoral activity) in Transilvania University of Braşov.

His main research interests are linked to the:

- Renewable Energy Systems, with special emphasis in Solar Energy
- Mechanical & Mechatronic Systems' Design and Testing
- Virtual Prototyping: Modeling, Simulation and Optimization

He published 11 books, 10 chapters in various books, and more than 250 scientific papers, part of them in prestigious WOS indexed journals (such as Mechanism and Machine Theory, Applied Mathematical Modelling, Journal of Renewable and Sustainable Energy, The Scientific World Journal, Proceedings of the Institution of Mechanical Engineers - Part C: Journal of Mechanical Engineering Science, Proceedings of the Institution of Mechanical Engineers - Part D: Journal of Automobile Engineering, Energies). He was the editor for 2 monographs published by international publishing houses. He owns 5 patents, two of which are related to innovative solutions for PV tracking systems. He was and he is member of the Scientific Committee of different conferences, congress and journals. He is a member of International University Association for Science and Technology of Romania (UASTRO), as well as International Federation for the Promotion of Mechanism and Machine Science (IFTOMM). He is an editor of the Bulletin of the Transilvania University of Braşov: Series I, topic editor of Energies and Mathematics, and reviewer for prestigious WOS indexed journals (such as Advances in Mechanical Engineering, Applied Mathematical Modelling, Applied Mathematics and Computation, IEEE Transactions on Industrial Informatics, IEEE Transactions on Power Electronics, Journal of Mechanical Science and Technology, Journal of Renewable and Sustainable Energy, Mechanical Sciences, Robotics and Autonomous Systems, Solar Energy, Renewable Energy). He has also been involved with several research projects financed by different institutions and organizations. He is a PhD Supervisor in Mechanical Engineering, and he coordinated three completed doctoral theses, two of which addressed specific topics of renewable energy systems (tracking systems for PV strings and platforms).

Additional Information:

- Member of the ICREPQ-International Scientific Committee (since 2007)
- RE&PQJ-Scientific Committee Member (since 2007)