

Transilvania University of Braşov

Faculty of Product design and Environment

Department of Product Design, Mechatronics and Environment

Proposed topic for doctoral studies admission contest – September 2019

Doctoral field **Mechanical Engineering**

Doctoral coordinator Prof.Mihaela Ioana Baritz PhD.

Topic **Theoretical and experimental researches on medical imaging implemented in biomechanical studies**

Recommended bibliography

1. Olariu V., Rosca I., Baritz M., Barbu D., Radu N. Gh. , *Biomechanica*, Editura Macarie, Târgovişte, Colectia Universitaria, ISBN: 973-9372-01-5, An: 1998
2. Alexandros Andre Chaaaraoui, Jose Ramon Padilla-Lopez, Francisco Javier Ferrandez-Pastor, Mario Nieto-Hidalgo and Francisco Florez-Revuelta, *A Vision-Based System for Intelligent Monitoring: Human Behaviour Analysis and Privacy by Context*, *Sensors* 2014, 14, 8895-8925; doi:10.3390/s140508895
3. Kejonen P., *Body movement during postural stabilization-Measurements with a motion analysis system*, Department of Physical Medicine and Rehabilitation, University of Oulu, 2002;
4. Ronald Poppe et al., "*AMAB: Automated measurement and analysis of body motion*", *Behav Res* DOI 10.3758/s13428-013-0398-y, 2013
5. Tozeren, *Human Body Dynamics: Classical mechanics and Human Movement*, 2000 Springer-Verlag New York, Inc.ISBN 0-387-98801-7
6. Rohit M. Thanki, Ashish M. Kothari, *Digital Image Processing using SCILAB*, Springer Publishing House, ISBN 978-3-319-89532-1, 2018
7. Norberto Peña; Bruno Cecílio Credidio, Lorena Peixoto Corrêa; Lucas Gabriel Souza França; Marcelo do Vale Cunha; Marcos Cavalcanti de Sousa; João Paulo Bomfim Cruz Vieira; José Garcia Vivas Miranda, *Instrumento livre para medidas de movimento-Free instrument for measurements of motion*, *Rev. Bras. Ensino Fís.* vol.35 no.3 São Paulo July/Sept. 2013;