

# Aneta Gądek-Moszczak



**Academic degrees : doctor habilitatus in Engineering**

**Position : Assistant professor**

**Engineering - technical field**

**Discipline Mechanical engineering**

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## **Academic qualifications:**

Deputy director for research in Institute of Applied Informatics

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## **Membership in professional and academic boards :**

Polish Society For Stereolog

Polish Society for Computational Methods

International Society for Image Analysis and Stereology

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## **Academic merits :**

1. Gądek-Moszczak A.: Zastosowanie metod analizy obrazu i stereologii w ocenie właściwości materiałów konstrukcyjnych stosowanych w technologiach inżynierii mechanicznej. Wydawnictwo Politechniki Krakowskiej, Kraków 2019
2. Kuciel S.; Bazan P., Liber-Kneć A.; Gądek-Moszczak A. Physico-mechanical properties of the poly(oxyethylene) composites reinforced with glass fibers under dynamical loading, *Polymers*, (2019) 11(12), s. 1-20.
3. Wojnar L., Gądek-Moszczak A., Pietraszek J. On the role of histomorphometric (stereological) microstructure parameters in the prediction of vertebrae compression strength, *Image Analysis and Stereology* (2019), 38(1), s. 63-73.
4. Korzekwa J., Gądek-Moszczak A., Application of the image analysis methods for the study of Al<sub>2</sub>O<sub>3</sub> surface coatings, *QPI 2019: Quality Production, Improvement, Walter de Gruyter (Sciendo)*, 2019, s. 406-411.
5. Korzekwa J., Gądek-Moszczak A., Zubko M., Influence of nanoparticle's size and shape on microstructure of oxide coatings, *Materials Science* (2018), 53(5), pp. 709-716.
6. Gawdzińska, K., Gądek-Moszczak, A., Bryll, K., Irska, I., Paszkiewicz, S., (2018), Influence of water absorption on chosen strength properties of single-polymer polyester composites, *Polimery/Polymers* 63(4), pp. 264-269
7. Pliszka I., Radek N., Gądek-Moszczak A., Dwornicka R., Bronček J., (2018) Microstructure of laser-modified electro-sparking coatings, *Technical Transactions/Czasopismo Techniczne*, 2018, Vol. 115, Iss. 10, s. 181-186
8. Gadek-Moszczak, A. History of stereology, (2017), *Image Analysis and Stereology*, 36(3), pp. 151-152.
9. Gądek-Moszczak, A., Matusiewicz, P, Polish stereology - A historical review, (2017), *Image Analysis and Stereology*, 36(3), pp. 207-221
10. Pliszka I., Radek N., Gądek-Moszczak A.: Properties of WC-Cu electro spark coatings subjected to laser modification, *Tribologia* (2017), vol. 5, s. 73-79.
11. Pliszka I, Radek N. Gądek-Moszczak A. Fabian P. (2016), Practical use of the surface layers of laser modified WC-Cu coatings, *Tribologia*, 6, 121-130.
12. Gądek-Moszczak A., Radek N., Pliszka I.: The impact of detection methods on the results of quantitative analysis of the surface layer WC-Co Al<sub>2</sub>O<sub>3</sub>, *Solid State Phenomena* (2015) vol. 235, s. 45-51.
13. Gądek-Moszczak A., Radek N., Pliszka I., (2015) The Impact of Detection Methods on the Results of Quantitative Analysis of the Surface Layer WC-CoAl<sub>2</sub>O<sub>3</sub>, *Solid State Phenomena*, 235, 45-51.
14. Gądek-Moszczak A., Syzdek B., Widzyk P., Radek N., (2015) Kinect Application as Virtual Patient Assistant on the Example of the Shoulder Pain Exercises, *Applied Mechanics and Materials* Vol. 712, pp 107-112.
15. Gądek-Moszczak A., Pietraszek J., Jasiewicz B., Sikorska S., Wojnar L., (2015) The bootstrap approach to the comparison of two methods applied to the evaluation of the growth index in the analysis of the digital x-ray image of a bone regenerate, *New Trends in Computational Collective Intelligence, Studies in Computational Intelligence* Volume 572, pp 127-136.

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**Professional qualifications/language skills**

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english

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**Research field :**

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Application and development of image processing and analysis methods in the field of mechanical engineering

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**Address**

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Faculty of Mechanical Engineering  
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**Useful links :**

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