PROJECT TITLE	FACULTY	SUPERVISORS	
Metal oxide-Schiff base nanofibers as novel optical sensors for metal ions detection in aquatic environment	Faculty of Chemistry	dr hab. Magdalena Barwiołek, prof. UMK	dr Roman Viter University of Latvia, Riga
Wavelet-based forecasting of business activity and assessment of stabilization policies	Faculty of Economic Sciences and Management	dr hab. Joanna Bruzda, prof. UMK	prof.Marco Gallegati Polytechnic University of Marche, Ancona, Italy
Closed loop neurofeedback based on acoustic simulation [BCBI - BB (binaural beats)]	Faculty of Physics, Astronomy and Informatics	prof. dr hab. Włodzisław Duch	dr hab. Ludovico Minati Universita' di Trento, Italia
The relationship between the knowledge management infrastructure and processes, and work performance of nurses	Faculty of Health Sciences	dr hab. Mariola Głowacka, prof. UMK	Naime Brajshori, PhD Heimerer College, Kosovo
A new class of hybrid exchange-correlation functionals within density functional theory	Faculty of Physics, Astronomy and Informatics	prof. dr hab. Ireneusz Grabowski	dr Eduardo Fabiano, Italian National Research Council and Italian Institute of Technology, Italy
Environmental risk assessment related to potential soil acidification in the Polish coastal zone based on predictive maps	Faculty of Earth Sciences and Spatial Management	dr hab. Piotr Hulisz, prof. UMK	Anton Boman, PhD Geological Survey of Finland
Identification of new molecular markers involved in differentiation potency of porcine GCs and ability to tissue regeneration	Faculty of Biological and Veterinary Sciences	prof. dr hab. Bartosz Kempisty	Michal Jeseta, PhD Masaryk University, Brno, Czech Republic
Deep neural networks for iterative regularization in inverse problems	Faculty of Physics, Astronomy and Informatics	dr Tomasz Piotrowski	prof. Masahiro Yukawa Keio University, Japan
Fabrication of new materials based on polymer and biopolymer blends for potential biomedical applications	Faculty of Chemistry	prof. dr hab. Alina Sionkowska	Prof. João F. Mano University of Aveiro, Portugal
Investigation of the ability to differentiation and transdifferentiation of porcine theca cells during in vitro primary culture	Faculty of Biological and Veterinary Sciences	prof. dr hab. Mariusz Skowroński	Michal Jeseta, PhD Masaryk University, Brno, Czech Republic
The phylogenetic relationships within Muscidae (Diptera) - a perspective illuminated by phylogenomic and immature stages morphology data	Faculty of Biological and Veterinary Sciences	prof. dr hab. Krzysztof Szpila	prof. Thomas Pape University of Copenhagen, Copenhagen, Denmark
Novel hybrid computational chemistry methods for the design of efficient organic photovoltaic materials.	Faculty of Physics, Astronomy and Informatics	dr hab. Paweł Tecmer, prof. UMK	prof. Ors. Legeza Wigner Research Centre for Physics, Budapest, Hungary
Innovative biocidal coating containing various biocides for biodegradable starch-based bioplastics.	Faculty of Biological and Veterinary Sciences	prof. dr hab. Maciej Walczak	dr hab. David Silha University of Pardubice, Czech Republic