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She obtained: a master's degree at the Faculty of Mathematics and Physics of the Jagiellonian University, her Ph.D. in agricultural sciences in the discipline of Environmental Management in 2002, and in 1997 a real estate appraiser license. Based on her practice in real estate valuation and her mathematical education she prepared a study on the practical way of using statistical techniques in the valuation of property in the form of guidelines for professional standards on behalf of the Board of the Polish Federation of Valuers' Associations (PFVA).

Her postdoc in 2005-2006 at the Northwestern Institute on Complex Systems (NICO), Northwestern University, Evanston, USA and cooperation in the use of GIS with the Government of Geographic Information and Data Services, Northwestern University Library turned her research interests toward morphological analysis of the GIS cadastral maps and cartographic-mathematic methods of analysis of spatial phenomena. In the academic years 2003/2004 and 2004/2005 she worked in the chemical laboratory at the Northwestern University, Department of the Chemical and Biological Engineering, Evanston, USA.

Her research interest has always been associated with the application of mathematics in technical sciences. After her doctorate she published 21 scientific works (including nine publications from the list of Philadelphia and one in the conference materials). Total impact factor of her publications by JCR, according to year of publication is  $IF = 62,984$ . Total number of citations is about 150, as listed ISI Web of Knowledge.