Curriculum Vitae

Personal Information	Name	Mariusz Młynarczuk	Gender	M	
	Academic Title	Dr. hab.			
	College	AGH University of Science and Technology			
	Discipline	Earth and related environmental sciences			
	Email	mlynar@agh.edu.pl			
	Telephone (office)				
	Mail Add.				

Educational Background	Automation and Robotics, Image Analysis, Mining and Engineering Geology

Working Experience	1991-2019: Strata Mechanics Research Institute of the Polish Academy of Sciences
	1994, 1995, 1997: Ecole Nationale Supérieure des Mines de Paris, France (long term scholarship)
	2010 – now: AGH University of Science and Technology

Research Interests	Image analysis, artificial intelligence, computer sciences, geology, mining

Major Publications*	• Oleszko, K., Młynarczuk, M., Sitek, L., & Staš, L. (2015). Application of image processing and different types of imaging devices for three-dimensional imaging of coal grains. Engineering Geology, (196), 286-292.
	• Ładniak, M., & Młynarczuk, M. (2015). Search of visually similar microscopic rock images. Computational Geosciences, 19(1), 127-136.
	• Młynarczuk, M., Habrat, M., & Skoczylas, N. (2016). The application of the automatic search for visually similar geological layers in a borehole in introscopic camera recordings. Measurement, 100(85), 142-151.
	• Mlynarczuk, M., & Skiba, M. (2017). The application of artificial intelligence for the identification of the maceral groups and mineral components of coal. Computers & Geosciences, 103(C), 133-141.
	• Habrat, M., & Młynarczuk, M. (2020). Object Retrieval in Microscopic Images of Rocks Using the Query by Sketch Method. Applied Sciences (2076-3417), 10(1).

Research Projects*	Development of an innovative software called SATREC for identification of objects on satellite SAR imagery by modelling and recognition of radar signatures; European Space Agency– 2018 (researcher)
	Study on structural and physical properties of coal and rocks; Polish-Czech Project (PAN- AV ČR) 2017-2019 (Leader)

Professional Membership	International Society for Rock Mechanics ; Polish Society for Stereology.
Potential Research Projects**	Projects dedicated to the application of image analysis and artificial intelligence to geological and mining applications.

* Please list achievements of recent 5 years

** This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.