

Dr Andrew Jarosz



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Position Senior Lecturer

Teaching Responsibilities Mine Design, Optimisation and Feasibility Studies, Mine Surveying, GIS, Engineering Computing.
Contributions to: Introductory Mining Engineering, Socio-Environmental Aspects of Mining, Mine Survey Project, and others.

Research Interests

- Remote inspection and surveying of mine cavities, stopes, shafts and ore-passes.
- 3D mapping and Immersive Visual Engineering (VR) systems.
- Mining applications of CAD, GIS and DBMS systems.
- Subsidence monitoring, prediction and engineering.

Professional Affiliations

- Spatial Sciences Institute, Australia (SSI)
- Institution of Engineering and Mining Surveyors, Australia (IEMSA)
- International Society for Mine Surveying (ISM),
- Presidium Member - Australian Representative.

Professional Experience

Over 30 years of professional and academic experience:
AGH - presently University of Science & Technology, Krakow, Poland.
Central Mining Research Institute, Katowice, Poland.
Virginia Polytechnic Institute & State University, Blacksburg, Virginia, USA.
University of the Witwatersrand, Johannesburg, South Africa.
WA School of Mines (Curtin University of Technology), Kalgoorlie, Western Australia.

Publications

Recent publications: ...

50. Jarosz A., Using DInSAR to Monitor Subsidence Caused by Underground Mining Utilising Block-Caving Method, Fringe 2005, ESA International Workshop on ERS SAR Interferometry, Frascati (Rome), Italy, 28 Nov - 2 Dec 2005.

51. Jarosz A., Professional Organisations and Education of Mine Surveyors in Australia, 85-lecie Katedry Geodezji

Górnictwej, Miernictwo górnictwa w dobie integracji – szanse i zagrożenia, AGH - University of Mining and Metallurgy, Cracow, Poland, 8-9 December 2005.

52. Jarosz A. and H. Zahiri, Integration of InSAR and GIS for Monitoring of Subsidence Induced by Block Caving Mining, FIG Working Week 2007, Hong Kong SAR, China, 13-17 May 2007.

53. Jarosz A. and J. Langdon, Development of Inspection and Surveying Tool for Vertical Mining Openings and Shafts, FIG Working Week 2007, Hong Kong SAR, China, 13-17 May 2007.

54. Jarosz A., H. Zahiri, M. Warren and A. Sowter, Utilisation of InSAR for Subsidence Monitoring over the Caving Zone of Underground Metalliferous Mine, Fringe 2007, ESA International Workshop on ERS SAR Interferometry, Frascati (Rome), Italy, 26 - 30 Nov 2007.

55. Longdon J. and A. Jarosz, Gyro stabilised vertical opening inspection and surveying system, Mine Planning and Equipment Selection (MPES 2007), Bangkok, Thailand, 11- 13 Dec 2007.