Dr eng. arch. Janek Kozicki

List of publications and conference proceedings

Publications in journals from ISI Master Journal List[1] (high impact factor)

[1] J. Kozicki, F. V. Donzé, Yade–open DEM: an open–source software using a discrete element method to simulate granular material *Engineering Computations*, Vol. 26 Issue 7, pages 786–805, **2009**.

[2] J. Kozicki, F. V. Donzé, A new open-source software developed for numerical simulations using discrete modeling methods. *Computer Methods in Applied Mechanics and Engineering*, Vol. 197, pages 4429–4443, `http://dx.doi.org/10.1016/j.cma.2008.05.023`, **2008**.

[3] J. Kozicki, J. Tejchman, Modelling of fracture process in concrete using a novel lattice model. *Granular Matter*, Vol. 10, pages 377–388, `http://dx.doi.org/10.1007/s10035-008-0104-4`, **2008**.

[4] J. Kozicki, J. Tejchman, Effect of aggregate structure on fracture process in concrete using 2D lattice model. *Archives of Mechanics*, Vol. 59, No 4–5, pages 365–384, **2007**.

[5] J. Kozicki, J. Tejchman, Application of a cellular automaton to simulations of granular flow in silos. *Granular Matter*, Vol. 7, No 1, pages 45–54, **2005**.

Publications in peer–reviewed journals

[6] J. Kozicki, Application of Discrete Models to Describe the Fracture Process in Brittle Materials. *Gdansk University of Technology*, PhD thesis, **2007**.

[7] J. Kozicki, J. Tejchman, Experimental investigations of strain localization in concrete using Digital Image Correlation (DIC) technique. *Archives of Hydro–Engineering and Environmental Mechanics*, Vol. 54, No 1, pages 3–24, **2007**.

[8] J. Kozicki, J. Tejchman, 2D Lattice Model for Fracture in Brittle Materials. *Archives of Hydro–Engineering and Environmental Mechanics*, Vol. 53, No 2, pages 71–88, **2006**.

[9] J. Kozicki, J. Tejchman, Simulations of Behavior of Granular Bodies using a Lattice Gas Automaton. *Archives of Hydro–Engineering and Environmental Mechanics*, Vol. 52, No 1, pages 21–37, **2005**.

[10] J. Kozicki, J. Tejchman, Simulations of flow pattern in silos with a cellular automaton, part I. *Task Quarterly, Gdansk University of Technology*, No 1, **2005**.

[11] J. Kozicki, J. Tejchman, Simulations of flow pattern in silos with a cellular automaton, part II. *Task Quarterly, Gdansk University of Technology*, No 2, **2005**.

[12] J. Kozicki, Discrete lattice model used to describe the fracture process of concrete. *Discrete Element Group for Risk Mitigation Annual Report 1, Grenoble University of Joseph Fourier, France*, pages 95–101, **2005**.

[13] J. Kozicki, J. Tejchman, Application of a cellular automata model to granular flow. *Task Quarterly, Gdansk University of Technology*, Vol. 6, No 3, pages 429–436, **2002**.

[14] J. Kozicki, J. Tejchman, Simulations of granular flow in silos with a cellular automata model. *International Journal of Storing, Handling and Processing Powder*, pages 267–275, **2001**.

[1] Institute for Scientific Information Master Journal List is also known under name „Philadelphian List", see `http://scientific.thomson.com/mjl/`

Conference materials

[15] Ł. Widuliński, J. Kozicki, J. Tejchman, Numerical simulations of a triaxial test in granular bodies using discrete particle simulations with contact moments *Proc. Conf. Computer Methods in Mechanics (CMM 2009)*, Zielona Góra, Poland, 18-21 May, **2009**.

[16] J. Kozicki, J. Tejchman, Simulation of fracture process in fibrous concrete *Proc. Conf. Computer Methods in Mechanics (CMM 2009)*, Zielona Góra, Poland, 18-21 May, **2009**.

[17] J. Kozicki, Architectural design proposal for a Martian base to continue NASA Mars Design Reference Mission *37^{th} Committee on Space Research Scientific Assembly (COSPAR 2008)*, Montreal, Canada, 13-20 July, **2008**.

[18] J. Kozicki, Gravity in the gamma ray spectrum *37^{th} Committee on Space Research Scientific Assembly (COSPAR 2008)*, Montreal, Canada, 13-20 July, **2008**.

[19] J. Kozicki, J. Tejchman, Simulation of fracture process in concrete with steel fibres. *6^{th} International Conference on Analytical Models and New Concepts in Concrete and Masonry Structures (AMCM 2008)*, Lodz, Poland, 9–11 June, **2008**.

[20] J. Kozicki, J. Tejchman, Application of DEM to describe concrete behaviour under compression and tension. *6^{th} International Conference on Analytical Models and New Concepts in Concrete and Masonry Structures (AMCM 2008)*, Lodz, Poland, 9–11 June, **2008**.

[21] J. Kozicki, J. Tejchman, Modeling of fracture process in concrete elements including steel fibres using a novel lattice model. *5^{th} European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008)*, Venice, Italy, 30 June – 4 July **2008**.

[22] J. Kozicki, J. Tejchman, Simulation of fracture process in concrete elements with steel fibres using discrete lattice model. *36th Solid Mechanics Conference (SOLMECH 2008)*, Gdansk, Poland September 9–12 **2008**.

[23] J. Kozicki, J. Tejchman, B. Chareyre, Comparative modeling of shear localization in granular bodies using a discrete and continuum approach. *36th Solid Mechanics Conference (SOLMECH 2008)*, Gdansk, Poland September 9–12 **2008**.

[24] J. Bobinski, J. Kozicki, J. Tejchman, Investigations of size effects in concrete under bending. *Int. Conf. on Computational Fracture and Failure of Materials and Structures (CFRAC 2007)*, page 107, Nantes, 11–13 June **2007**.

[25] J. Kozicki, J. Tejchman, Simulations of fracture processes in concrete using a 3D lattice model. *Int. Conf. on Computational Fracture and Failure of Materials and Structures (CFRAC 2007)*, pages 62–63, Nantes, 11–13 June **2007**.

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[27] J. Kozicki, J. Tejchman, Effect of aggregate density on fracture process in concrete using 2D discrete lattice model. *Proc. Conf. Computer Methods in Mechanics (CMM 2007)*, Lodz-Spala, 19-22 June **2007**.

[28] J. Kozicki, J. Tejchman, Modelling of a direct shear test in granular bodies with a continuum and a discrete approach. *Proc. Conf. Computer Methods in Mechanics (CMM 2007)*, Lodz-Spala, 19-22 June **2007**.

[29] J. Kozicki, J. Tejchman, Modelling of fracture process in brittle materials using a lattice model. *Computational Modelling of Concrete Structures, EURO-C (eds.: G. Meschke, R. de Borst, H. Mang and N. Bicanic), Taylor anf Francis*, pages 139–145, **2006**.

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[31] M. Niedostatkiewicz, J. Kozicki, J. Tejchman, Measurements of strain localization in granular and brittle specimens using a digital image correlation technique. *35th Solid Mechanics Conference (SOLMECH 2006)*, pages 93–94, Krakow, 4–8 September **2006**.

[32] J. Kozicki, J. Tejchman, Simulations of granular flow with a lattice-gas automaton. *Proc. Conf. Computer Methods in Mechanics (CMM 2005)*, Czestochowa, Poland, June 21–24 **2005**.

[33] J. Kozicki, J. Tejchman, Simulations of fracture in concrete elements using a discrete lattice model. *Proc. Conf. Computer Methods in Mechanics (CMM 2005)*, Czestochowa, Poland, June 21–24 **2005**.

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[36] J. Kozicki, J. Tejchman, Application of an Improved Cellular Automaton for Granular Flow. *CURE Workshop, Simulations in Urban Engineering*, Gdańsk, September 20–22 **2004**.

[37] J. Kozicki, J. Tejchman, Discrete methods to describe the behaviour of quasi-brittle and granular materials. *Proc. Conf. Computer Methods in Mechanics (CMM 2003)*, pages 195–197, Gliwice 6 July **2003**.

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[39] J. Kozicki, J. Tejchman, Discrete methods to describe the behaviour of quasi-brittle and granular materials. *16th Engineering Mechanics Conference, University of Washington*, Seattle, CD–ROM, July 16–18 **2003**.

[40] J. Kozicki, J. Tejchman, Lattice method to describe the behaviour of quasi-brittle materials. *CURE Workshop, Effective use of building materials*, pages 131–134, Sopot, October 8-9 **2003**.

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[41] J. Kozicki, J. Kozicka, Stacja na Marsie. *VIII Sympozjum Polskiego Towarzystwa Transplantacyjnego*, Opera Nova Bydgoszcz, Poland, 11-13 September **2008**.

[42] J. Kozicki, J. Tejchman, Modelowanie przeplywu silosowego przy zastosowaniu nowego modelu automatu komorkowego. *XIII Konferencja Naukowo-Techniczna, Zelbetowe i sprezone zbiorniki na materialy sypkie i ciecze*, CD-ROM, Wroclaw, 26–29 September **2007**.

[43] J. Kozicki, M. Niedostatkiewicz, Zastosowanie automatu komorkowego do opisu przeplywu materialow sypkich w silosach. *XII Konferencja Naukowo-Techniczna, Zelbetowe i sprezone zbiorniki na materialy sypkie i ciecze*, pages 115–122, Krakow, 19–21 November **2003**.

[44] J. Kozicki, J. Tejchman, Zastosowanie automatow komorkowych do opisu przeplywow materialow sypkich w silosach. *Materialy XXXVII Zjazdu Fizykow Polskich*, pages 1116–1120, Gdansk, 15–18 September **2003**.