

VI. DAFTAR PUSTAKA

- AIACCT 2017, Wuhan, China., (2017), “EvacAgent: A Building Emergency Evacuation Simulation Model Based on Agent”, Ying, Z., Zi-min, Z., Jian, C., Association for Computing Machinery.
- Bappenas, (2006), “Preliminary Damage and Loss Assessment Yogyakarta and Central Java Natural Disaster”.
- Basuki, S., (2006), “Ilmu Ukur Tanah”, Yogyakarta: Gadjah Mada University Press.
- BPBD Kabupaten Sleman, (2014), “Laporan Akhir Analisis Risiko Bencana Kabupaten Sleman”.
- Brown, D. G., Xie, Y., (2006), “Spatial-agent based modelling”, International Journal of Geographical Information Science Vol. 20, No.9, October 2006, 941-943.
- Chen, Y., (2017), “Agent-based research on crowd interaction in emergency evacuation”, *Cluster Comput*, DOI 10.1007/s10586-017-1134-7
- Chen, X., (2011), “Agent-based modeling of emergency evacuation in a spatially-aware and time-aware environment”, Proceedings of the 25th international cartographic conference. Paris, France. July 3-8, 2011. ISBN: 978-1-907075-05-6.
- Cheng, J, C, P., Tan, Y., Song, Y., Mei, Z., Gan, V, J, L., Wang, X., (2018), “Developing an evacuation evaluation model for offshore oil and gas platforms using BIM and agent-based model”, *Automation in Construction* 89, 214-224.
- Cimellaro, G.P., Ozzello, F., Vallero, A., Mahin, S., Shao, B., (2017), “Simulating earthquake evacuation using human behavior models”, *Earthquake Engineering & Structural Dynamics*. DOI: 10.1002/eqe.2840.
- Claridades, A. R. C., Villanueva, J. K. S., Macatulad, E. G., (2016), “Evacuation Simulation in Kalayan Residence Hall, Up Diliman using GAMA Simulation Software”, *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science*, Volume XL-II-4/W1, 2016.s
- Crooks, A., Heppenstall, A., Malleon, N., (2018), “Comprehensive Geographic Information Systems, First Edition, 218-243
- Deng, Y., Cheng, J, C, P., Anumba, C., (2016), “Mapping between BIM and 3D GIS in different levels of detail using schema mediation and instance comparison”, *Automation in Construction* 67, 1-21.
- Ding, Y & Weng, F., (2016), “A comparative study of evacuation strategies for high-rise building via combination of stair and elevator based on computer simulation”, *Int.J. Emergency Management*, Vol. 12, No.1. hal 41-54
- Duim, E., Lebrao, M. L., Antunes, J. L. F., (2017), “Walking speed of older people and pedestrian crossing time”, *Journal of Transport & Health* 5, 70-76
- Esri, 2018, “What is GIS?”, <https://www.esri.com/en-us/what-is-gis/overview>, diakses pukul 11.44, 21 Maret 2018

- Fan, H., Meng, L., 2009, "Automatic derivation of different levels of detail for 3D buildings modeled by CityGML", Department of Cartography, Technische Universitat Munchen
- Grigoryev, I., (2016), "Anylogic 7 in three days"
- Green, E., 2016, "BIM 101: What is Building Information Modeling?", <https://www.engineering.com/BIM/ArticleID/11436/BIM-101-What-is-Building-Information-Modeling.aspx>, diakses pukul 14.56, 23 Februari 2018
- Isikdag, U., Zlatanova, S., 2009, Towards Defining a Framework for Automatic Generation of Buildings in CityGML using Building Information Models dalam *3D Geoinformation Sciences*, diedit oleh Lee, J dan Zlatanova, S, Berlin: Springer, hal 91.
- Johnston, K., M., (2013), "Introducing agent-based modeling in the GIS environment", dalam *Agent Analyst Agent Based Modeling in ArcGIS*, California: Esri Press, hal 7-8
- Jumadi, Carver, S., Quincey, D., 2016, "ABM and GIS-based Multi-scenarios Volcanic Evacuation Modeling of Merapi", AIP Conference Proceedings *The 5th International Symposium on Earthhazard and Disaster Mitigation*. DOI: 10.1063/1.4947401
- Liu, R., Jiang, D., Shi, L., (2016), "Agent-based simulation of alternative classroom evacuation scenarios", *Frontiers of Architectural Research* 5, 111-125
- Liu, X & Lim, S, (2016), "Integration of spatial analysis and an agent-based model into evacuation management for shelter assignment and routing", *Journal of Spatial Science*, 61:2, 283-298
- Liu, Z., Jacques, C, C., Szyniszewski, S., Guest, J.K., Schafer, B, W., Igusa, T., Reiser, J, M., (2015), "Agent-based simulation of building evacuation after an earthquake: coupling human behavior with structural response", *Nat. Hazards Rev* 04015019
- Ma, Z., Ren, Y, , 2017, "Integrated Application of BIM and GIS: An Overview", *Proceeding on Creative Construction Conference*, Primosten, Croatia, 19-22 June 2017, 1072-1079.
- Macatulad, E.G., Blanco, A.C., (2014), "3D GIS-based Multi-Agent Geosimulation and Visualization of Building Evacuation using GAMA Platform", *The Int. Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Vol. XL-2, 87-91
- Manley, M., Kim, Y.S., Christensen, K., Chen, A., (2015), "Airport Emergency Evacuation Planning: An Agent-Based Simulation Study of Dirty Bomb Scenarios". *IEEE Transactions on Systems, Man, and Cybernetics: Systems*.
- Pax, R., Pavon, J., (2017), "Agent architecture for crowd simulation in indoor environments", *Journal of Ambient Intell Human Comput* 8: 205-212
- Pemerintah Indonesia, (2007), Undang-undang Nomor 24 Tahun 2007 tentang Penanggulangan Bencana, Tambahan Lembaran Negara Republik Indonesia Nomor 4723, Jakarta
- PK4L, (2017), "Panduan Keamanan dan Keselamatan di Kampus UGM", Universitas Gadjah Mada.

- Pooyandeh, M., Mesgari, S., Alimohammadi, A., (2014), "Integration of Agent-Based Modeling and GIS for Urban Simulation". Researchgate.
- Ruppel, U., Abolghasemzadeh, P., Stuebbe, K.M., (2010), "BIM-based immersive indoor graph networks for emergency situations in buildings", Proceedings of the Int.Conference on Computing in Civil Engineering and Building Engineering., pp 65-72.
- SBL, 2015, "BIM-Information and Management", <https://www.gislounge.com/bim-information-and-management/>, diakses pukul 18.11, 20 Februari 2018
- Seminar Nasional Teknik Industri BKSTI, Bukittinggi Sumatera Barat, 2014, "Evaluasi panduan desain untuk mengurangi kepadatan penumpang akibat keberadaan areal komersil di desain stasiun bawah tanah pada proyek Mass Rapid Transit (MRT) Jakarta dengan pemodelan berbasis agen", Hidayatno, A., Agastya, R., Sutrisno, A.
- Sharma, S., Ogunlana, K., Scribner, D., Grynovicki, J, 2017, "Modeling Human Behavior During Emergency Evacuation using Intelligent Agents: A Multi-agent Simulation Approach", Inf Syst Front.
- Society for Modeling & Simulation International, Montreal Quebec, CA., 2016, "Simulating Campus Evacuation : Case of York University", Asgari, A., Yang, P, L, C.
- Takabatake, T., Shibayama, T., Esteban, M., Ishii, H., Hamano, G., (2017), "Simulated tsunami evacuation behavior of local residents and visitors in Kamakura, Japan", International Journal of Disaster Risk Reduction 23, page 1-14.
- Tan, L., Lin, H., Hu, M., Che, W., (2014), "Agent-based simulation of building evacuation using a grid graph-based model", Earth and Environmental Sciences 18
- Teo, T.A., Cho, K.H., (2016), "BIM-oriented indoor network model for indoor and outdoor combined route planning", Advanced Engineering Informatics 30, 268-282.
- Thunderhead Engineering, 2017, "User Manual Pathfinder 2017", USA.
- Tsai, C, F., Xiao, Y,T., Chen, H,S., Ye, Y,X., Wang, C, H., Liang, T,W., (2017), "Integration of BIM and GIS to Query Management on Pipeline of building-a case study of dormitory", Proceedings of the IEEE-ICASI 2017 –Meen, Prior & Lam (Eds).
- USGS, 2016, "The Severity of an Earthquake", <https://pubs.usgs.gov/gip/earthq4/severitygip.html>, diakses pukul 13.10, 12 Desember 2018
- Wang, Z., (2012), "Integrating Spatio-Temporal Data into Agent Based Simulation for Emergency Navigation Support", GIS Report No.58.
- Wibowo, N, B., Sembri, J, N., (2016), "Analisis *Peak Ground Acceleration* (PGA) dan Intensitas Gempabumi berdasar Data Gempabumi Terasa tahun 1981-2014 di Kabupaten Bantul Yogyakarta", Indonesian Journal of Applied Physics, hal 65-72. ISSN :2089-0133