

inverse power values are calculated to find less error prone IDW power.

The usefulness of slope analysis in the real world is in the Environment and climate. Proper slope will protect the area from hot, winds or from cold can be good for agriculture.

Error free or less error prone slope analysis is required in almost every application areas like water flow analysis, vegetation analysis, terrain stability assessment, snow avalanche risk mapping.

REFERENCES

- [1] A. A. Rahman, M. Pilouk, and S. Zlatanova, "The 3D GIS software development: global efforts from researchers and vendors," *Geoinformation Science Journal*, vol. 1, no. 13, 2001.
- [2] E. R. Vivoni, V. Y. Ivanov, R. L. Bras, and D. Entekhabi, "Generation of triangulated irregular networks based on hydrological similarity," *Journal of hydrologic engineering*, vol. 9, no. 4, pp. 288–302, 2004.
- [3] Neeraj Bhargava, Ritu Bhargava, and Prakash Singh Tanwar, "Triangulated Irregular Network Model from Mass Points," *International Journal of Advanced Computer Research*, vol. 3 No. 2, no. 10, pp. 172-176, June 2013.
- [4] George Y. Lu and David W. Wong, "An adaptive inverse distance weighing spatial interpolation technique," vol. 34, no. 9, pp. 1044–1055, September 2008.
- [5] Q. Zhou and X.Liu, "Error Analysis on Grid-Based Slope and Aspect Algorithms," *Photogrammetric Engineering & Remote Sensing*, vol. 70, no. 8, pp. 957–962, 2004.
- [6] R. Hickey, "Slope angle and slope length solutions for GIS," *Cartography*, vol. 29, no. 1, pp. 1–8, 2000.
- [7] E. M. Masaad and S. M. Moneim, "Suitable Design of Road Pattern for Kosti Town Based on TIN Analysis," *Khartoum University Engineering Journal*, vol. 2, no. 1, 2012.
- [8] M. A. Azpurua and K. D.Ramos, "A comparison of spatial interpolation methods for estimation of average electromagnetic field magnitude," *Progress In Electromagnetics Research M*, vol. 14, pp. 135–145, 2010.
- [9] X. Hanjianga, T. Limina, and S. Longa, "A Strategy To Build A Seamless Multi-Scale TIN-DEM Database," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. XXXVII., no. B4, 2008.
- [10] G. E. Tucker, S. T. Lancaster, N. M. Gasparini, R. L. Bras, and S. M. Rybarczyk, "An object-oriented framework for distributed hydrologic and geomorphic modeling using triangulated irregular networks," *Computers & Geosciences*, vol. 27, no. 8, pp. 959–973, 2001.
- [11] R. Pajarola, M. Antonijuan, and R. Lario, "Quadtin: Quadtree based triangulated irregular networks," *Proceedings of the conference on Visualization'02*, pp. 395–402, 2002.