

Terrain modelling in surveying and civil engineering

G Petrie and T J M Kennie*

This paper is a review of the application of terrain modelling to surveying and civil engineering. The first section considers the theoretical background to the subject and two distinct approaches are identified based on the use of either grid or randomly located height data. The relative merits of each are discussed and the most frequently used algorithms for interpolation and contouring are examined. This is followed by a review of the characteristics of a selected number of terrain modelling and contouring packages. Five distinct groups of packages are identified. Finally, a review of applications is presented together with some views on the future trends in this field.

terrain modelling, civil engineering, landscape planning

Surface modelling is a general term used to describe the process of representing a physical or artificially created surface by means of a mathematical expression. Terrain modelling is one particular category of surface modelling which deals with the specific problems of representing the surface of the earth.

The term 'digital terrain model' was originally coined in 1958 by Miller and LaFlamme¹. Since then, the subject has developed considerably and is currently an area of widespread activity in surveying, geology and geophysics, civil and mining engineering and other disciplines in the earth sciences.

The paper is divided into three distinct sections. The first section examines the theoretical background and considers the advantages and limitations of the various interpolation and contouring techniques which are used by the program packages described in the second section. The paper concludes by listing the range of projects where terrain modelling may be applied and considers the most likely trends for the future in this field.

THEORETICAL BACKGROUND

As the review in the later part of the paper will show, a very large number of program packages have been devised and written for terrain modelling applications in surveying and civil engineering. Each program package has been written independently and usually has been optimized for a specific

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application or for use on a specific computer or uses a different programming language, or has a distinctive user interface. However, in spite of this diversity, when their characteristics are analysed, it can be seen that basically they follow one or two main approaches (see Figure 1). Either they are based on, or make use of, height data which has been collected or arranged in the form of a regular (e.g. rectangular or square) grid or they are based on a triangular network of irregular size, shape and orientation, and use randomly-located height data.

Grid based terrain modelling

The first approach is in many ways the simplest, in that the data comprising the terrain model is measured or collected in the form of a regular grid. This is in widespread use, e.g. in the grid levelling of building sites carried out by surveyors and civil engineers and in the acquisition of profile data measured photogrammetrically in stereoplotters instruments, in the latter case, especially when derived automatically or semi-automatically during the production

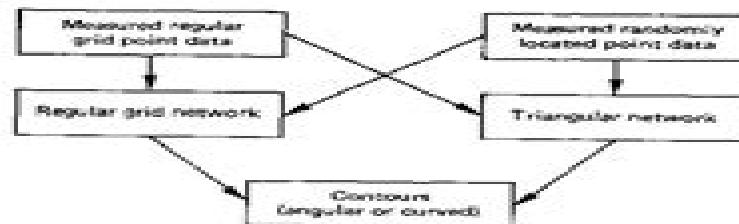


Figure 1. Overall relation between measured point data, networks and contours to terrain modelling.

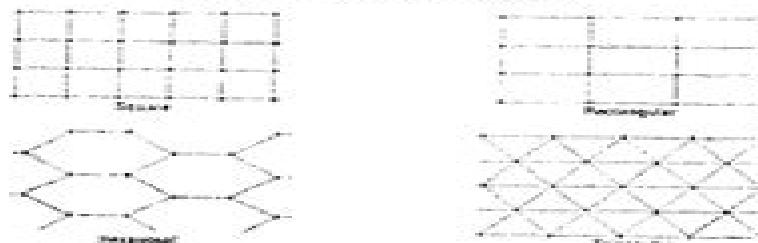


Figure 2. Regular grid patterns

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Handbook of Hydrology David R. Maidment,1993-02-22 An all inclusive reference covering all practical aspects of hydrology Twenty nine chapters in four major sections I Hydrologic Cycle II Hydrologic Transport III Hydrologic Statistics IV Hydrologic Technology 500 illustrations [Landform Monitoring, Modelling and Analysis](#) Stuart N. Lane,Keith S. Richards,Jim H. Chandler,1998-05-08 Geomorphologists played a major role in the 1960s and 1970s in terrain research as the potential of the computer was realised for both storing and manipulating landform information With growth in the subject area further technological development and a growing input from other disciplines much of this research has moved into the domain of GIS and Remote Sensing where the involvement of geomorphologists has inevitably been reduced despite the

importance of this type of research to geomorphology in general This book comprises selected and full refereed papers from a recent BGRG Annual Conference which was held with these issues in mind The book contains both review and original and significant research papers that consider recent methodological developments in and the constraints of current terrain monitoring and modelling methods in geomorphology along with the application of these methods to specific geomorphological problems By providing up to date research by leaders in the field of terrain study this book will be of enormous value to undergraduates research students and research scientists in geomorphology mapping science and GIS and Remote Sensing as well as those working in industry who use or need to apply terrain research methods Proceedings of the ... Conference on Computing in Civil Engineering ,1980 Survey Review ,2013 Geographical Information Systems: Principles David J. Maguire,Michael F. Goodchild,David Rhind,1991 Surveying: Theory and Practice James M Anderson,Edward M Mikhail,1998 Drawing accurate topographical plans is a major part of field archaeology and standards need to be right up to the level of civil engineers This is the standard text for all professionals updated to incorporate the latest advances in legislation and technology especially the growth of Global Positioning System GPS precision

Proceedings of the Second Conference on Computing in Civil Engineering David R. Schelling,American Society of Civil Engineers. Technical Council on Computer Practices,1980 Late Quaternary and Present-day Fluvial Processes in Central Europe Jürgen Hagedorn,1995 Catalogue of the Library of the Graduate School of Design, Harvard University Harvard University. Graduate School of Design. Library,1968 **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1978 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 Surveying Theory and Practice Raymond Earl Davis,1981

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