

University of Otago Te Whare Wananga O Otago Dunedin, New Zealand

A Comparison of Alternatives to Regression Analysis as Model Building Techniques to Develop Predictive Equations for Software Metrics

Andrew R. Gray Stephen G. MacDonell

The Information Science Discussion Paper Series

> Number 96/05 March 1996 ISSN 1172-455X

University of Otago

Department of Information Science

The Department of Information Science is one of six departments that make up the Division of Commerce at the University of Otago. The department offers courses of study leading to a major in Information Science within the BCom, BA and BSc degrees. In addition to undergraduate teaching, the department is also strongly involved in postgraduate programmes leading to the MBA, MCom and PhD degrees. Research projects in software engineering and software development, information engineering and database, artificial intelligence/expert systems, geographic information systems, advanced information systems management and data communications are particularly well supported at present.

Discussion Paper Series Editors

Every paper appearing in this Series has undergone editorial review within the Department of Information Science. Current members of the Editorial Board are:

Mr Martin Anderson	Dr George Benwell
Dr Nikola Kasabov	Dr Geoff Kennedy
Dr Martin Purvis	Professor Philip Sallis
Dr Hank Wolfe	-

The views expressed in this paper are not necessarily the same as those held by members of the editorial board. The accuracy of the information presented in this paper is the sole responsibility of the authors.

Copyright

Copyright remains with the authors. Permission to copy for research or teaching purposes is granted on the condition that the authors and the Series are given due acknowledgment. Reproduction in any form for purposes other than research or teaching is forbidden unless prior written permission has been obtained from the authors.

Correspondence

This paper represents work to date and may not necessarily form the basis for the authors' final conclusions relating to this topic. It is likely, however, that the paper will appear in some form in a journal or in conference proceedings in the near future. The authors would be pleased to receive correspondence in connection with any of the issues raised in this paper. Please write to the authors at the address provided at the foot of the first page.

Any other correspondence concerning the Series should be sent to:

DPS Co-ordinator Department of Information Science University of Otago P O Box 56 Dunedin NEW ZEALAND Fax: +64 3 479 8311 email: workpapers@commerce.otago.ac.nz