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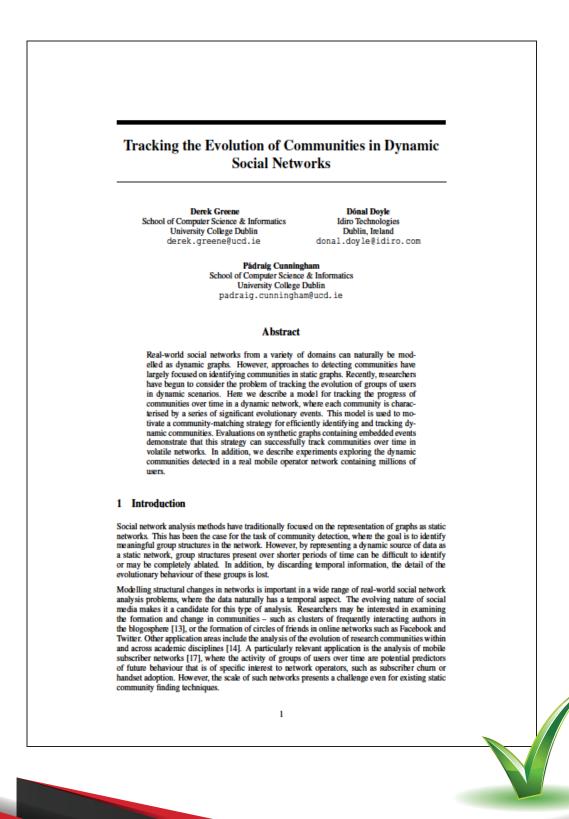
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| Equality is one of the central ideas in contemporary politics. But how does it relate to other human values, and particularly with the progressive values of the political left? I will argue that there is a close connection between one particular conception of equality, which I call 'equality of condition', and such values as human rights, diversity, liberation, freedom, solidarity and environmentalism. Overall, my argument is intended to support the claim that equality should be at the centre of our thinking about existing social institutions and how they should be changed. <sup>1</sup><br>'Equality of condition' is one of several possible conceptions of equality. It is, broadly speaking, the belief that people should be as equal as possible in relation to the central conditions of their lives. Equality of condition is not about trying to make inequalities fairer, or giving people a more equal opportunity to become unequal, but about ensuring that everyone has roughly equal prospects for a good life, that they are equally <i>enabled</i> and <i>empowered</i> in living their lives. To make this a little more specific, it helps to focus on five key 'dimensions' in which people can be equal or unequal in societies like ours. These five dimensions represent five major determinants of how well |
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| a person's life goes, in relation to a wide range of conceptions of what a good life looks   |
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| <sup>1</sup> This article is part of continuing collaborative research in the Equality Studies Centre at UCD and in<br>particular collaboration with Kathleen Lynch, Sara Cantillon and Judy Walsh. Because the ideas in this<br>article rely on so many sources, I refer readers to our more academic publications for elaborations,<br>acknowledgements and references and in particular to our forthcoming book, <i>Equality from Theory to</i><br><i>Action.</i>   |
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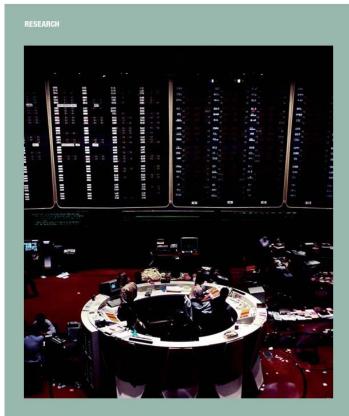
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# Background The peak unit shaft resistance (Tf) mobilised by a pile in sand can be estimated using earth pressure theory as: [1] $\tau_f = K \sigma'_v \tan \delta_f$ where K is the earth pressure coefficient, $\sigma'_{V}$ is the in-situ vertical effective stress and $\delta_{f}$ is the soil-pile interface friction angle. A common difficulty with the application of Equation 1 is the choice of an appropriate K value for design. Paikowsky (2004) notes that design methods proposed by Reese and O'Neill (1999) are in widespread use. They suggest $K/K_0$ (where K<sub>0</sub>, is the coefficient of earth pressure at rest), varies with the pile construction method, varying from 0.67 when the pile is excavated using slurry, to 1.0 in a dry excavation. $K_0$ is notoriously difficult to measure but can be estimated using the method proposed by Mayne and Kulhawy (1982): $K_0 = (1 - \sin \phi_p)$ for normally consolidated soil [2] $K_0 = (1 - \sin \phi_p) OCR^{\sin \phi_p}$ for overconsolidated soil where $\phi'_P$ is the peak friction angle and OCR is the Over-Consolidation Ratio. Where accurate estimates of $K_0$ are unavailable, Reese and O'Neill suggest an empirical correlation based on a conservative estimate of the shaft resistance (in kPa) measured from a series of field tests: [3a] $\tau_f = \beta \sigma'_v$



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IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, VOL. 7, NO. 1, JANUARY-MARCH 2010

# Feature Selection for Gene Expression Using Model-Based Entropy

Shenghuo Zhu, Dingding Wang, Kai Yu, Tao Li, and Yihong Gong

Abstract—Gene expression data usually contain a large number of genes but a small number of samples. Feature selection for gene expression data aims at finding a set of genes that best discriminate biological samples of different types. Using machine learning techniques, traditional gene selection based on empirical mutual information suffers the data sparseness issue due to the small number of samples. To overcome the sparseness issue, we propose a model-based approach to estimate the entropy of class variables on the model, instead of on the data themselves. Here, we use multivariate normal distributions to fit the data, because multivariate normal distributions have maximum entropy among at mat-valued distributions with a specified mean and standard deviation and are widely used to approximate various distributions. Given that the data follow a multivariate normal distribution, since the conditional distribution of class variables given the selected features is a normal distribution, its entropy can be computed with the log-determinant of its covariance matrix. Because of the large number of genes, the computation of all possible log-determinants is not efficient. We propose several algorithms to largely reduce the computational cost. The experiments on seven gene data sets and the comparison with other five approaches show the accuracy of the multivariate Gaussian generative model for feature selection, and the efficiency of our algorithms.

Index Terms-Feature selection, multivariate Gaussian generative model, entropy.

#### 1 INTRODUCTION

ENE expression refers to the level of production of Gprotein molecules defined by a gene. Monitoring of gene expression is one of the most fundamental approach in genetics and molecular biology. The standard technique for measuring gene expression is to measure the mRNA instead of proteins, because mRNA sequences hybridize with their complementary RNA or DNA sequences while this property lacks in proteins. The DNA arrays, pioneered in [5] and [10], are novel technologies that are designed to measure gene expression of tens of thousands of genes in a single experiment. The ability of measuring gene expression for a very large number of genes, covering the entire genome for some small organisms, raises the issue of characterizing cells in terms of gene expression, that is, using gene expression to determine the fate and functions of the cells. The most fundamental of the characterization problem is that of identifying a set of genes and its expression patterns that either characterize a certain cell state or predict a certain cell state in the future [18].

When the expression data set contains multiple classes, the problem of classifying samples according to their gene expression becomes much more challenging, especially when the number of classes exceeds five [24]. Moreover, the special characteristics of expression data add more

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- E-mail: {zsh, kyu, ygong New.nec-labs.com.
   D. Wang and T. Li are with the School of Computer Science, Florida International University, 11200 SW 8th Street, Miami, FL 33199.
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Manuscript received 18 Oct. 2007; revised 17 Jan. 2008; accepted 13 Mar. 2008; published online 10 Apr. 2008. For information on obtaining reprints of this article, please send e-mail to: tob@computer.org, and reference IEEECS Log Number TCBB-2007-10-0136. Digital Object Identifier no. 10.1109/TCBB.2008.35.

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challenge to the classification problem. Expression data usually contain a large number of genes (in thousands) and a small number of experiments (in dozens). In machine learning terminology, these data sets are usually of very high dimensions with undersized samples. In microarray data analysis, many gene selection methods have been proposed to reduce the data dimensionality [31].

Gene selection aims to find a set of genes that best discriminate biological samples of different types. The selected genes are "biomarkers," and they form a "marker panel" for analysis. Most gene selection schemes are based on binary discrimination using rank-based schemes [8] such as information gain, which reduces the entropy of the class variables given the selected features. One critical issue in these rank-based methods is data sparseness. For example, the estimation of the traditional information gain is an empirical estimation directly on the data. Suppose we select the 11th gene for a data set. The 10 selected genes split the training data into  $1,024 = 2^{10}$  groups (assuming that each gene does a binary split). Since we have very few samples in most groups, the estimations of mutual information between the 11th gene and the target in each group are not accurate. Thus, the information gain, which is the sum of the mutual information over all groups, is not accurate.

To overcome the issue of data sparseness, we propose a model-based approach to estimate the entropy on the model, instead of on the data themselves. Here, we use multivariate Gaussian generative models, which model the data with multivariate normal distributions. Multivariate normal distributions are widely used in various areas, including gene expression data [34], because of their generality and simplicity. The means of variables (estion data of genes and class labels) and the covariances of them are two basic measures of variables themselves

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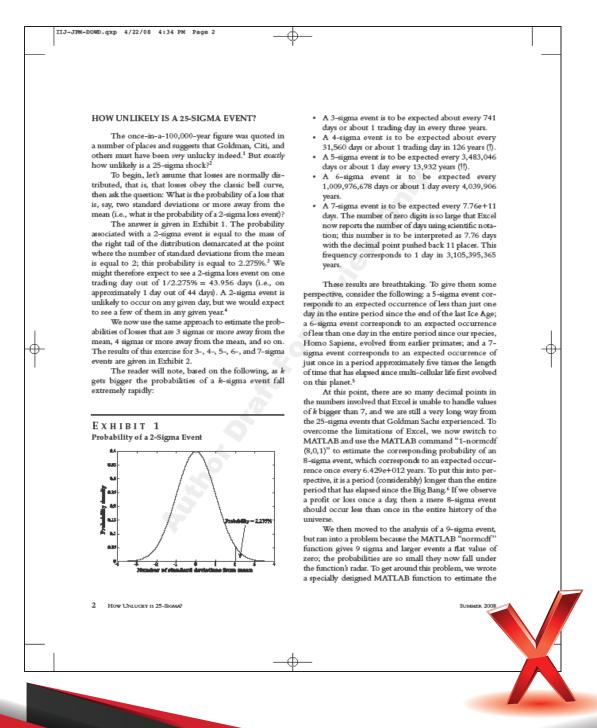
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# International equity market integration in a small open economy: Ireland January 1990–December 2000

#### John Cotter\*

Department of Banking and Finance, Centre for Financial Markets, University College Dublin, Graduate School of Business, Blackrock, Co. Dublin, Feland

#### Abstract

We examine the relationship between the Irish, German, UK and U.S. equity markets. Our main finding is that the Irish equity market depends heavily on trading activity in the other markets but not vice versa. Significant return and volatility spillover effects occur in the direction of, but not from, the Irish market. We also find that dual listing in the form of American Depositary Receipts (ADRs) has an important role to play in these spillover effects. Our findings obtain throughout the sample, but are strongest for the period after the ERM crises and before the introduction of the euro.

JEL classification: G1; G10 Keywords: Equity market linkages; Return and volatility spillovers; Dual trading

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#### 1. Introduction

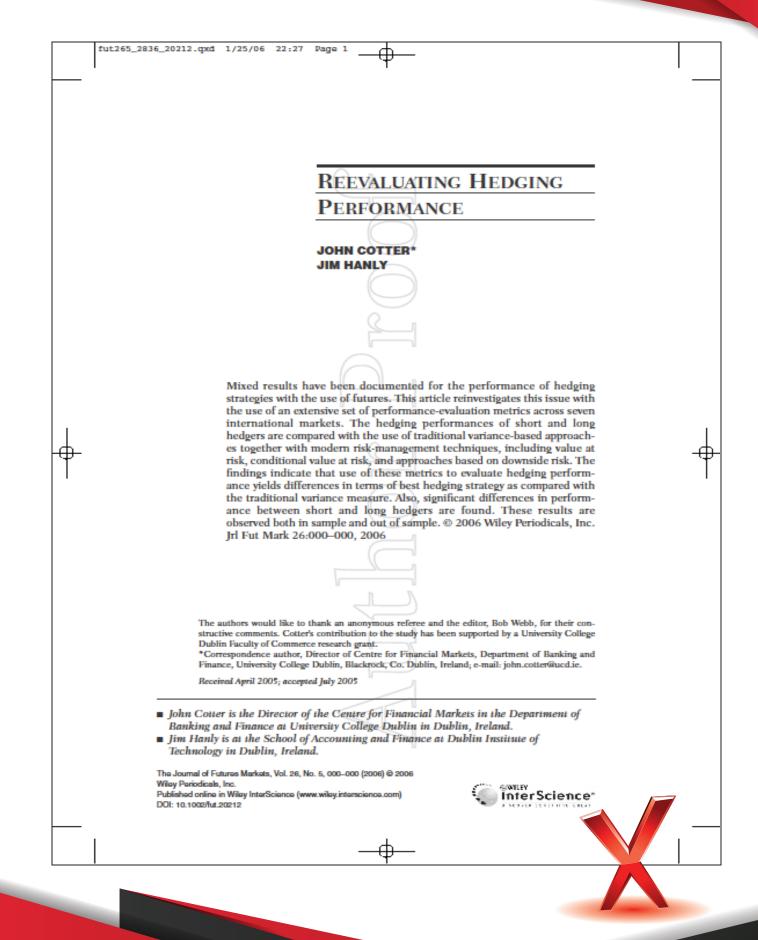
Ireland is recognized as a small open economy with a heavy reliance on external trade 22 that has been increasing over time (EUROSTAT, 2000). The nature of Ireland's capital 23 flows is less clear, however, and this paper addresses this subject by describing the 24 bivariate interactions between the Irish equity market and the markets in Germany, the 25 United Kingdom and the United States. Traditional strong interactions between the Irish 26 and the UK markets for economic and political purposes may have been superseded by 27

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## Dealing with monopsony power: Employment subsidies vs. minimum wages

Eric Strobl, Frank Walsh \*

Ecole Polytechnique and University College Dublin, Ireland

Received 24 November 2003; received in revised form 16 June 2006; accepted 11 August 2006 Available online 14 November 2006

#### Abstract

We show in a monopsony model that accounting for changes in hours a minimum wage has ambiguous effects on employment and welfare. When all workers have the same preference ordering over leisure and consumption employment subsidies unambiguously improve welfare. Many countries have minimum wages and also tax minimum wage workers. © 2006 Elsevier B.V. All rights reserved.

Keywords: Monopsony; Minimum wages; Hours worked

JEL classification: J42; J48

#### 1. Introduction

Manning (2003) has argued for the importance of monopsony power in modern labour markets.<sup>1</sup> Importantly, monopsony models result in inefficient market outcomes that provide a rationale for regulation. Minimum wages tend to be the common policy response while minimum wage workers are often taxed. In this paper we demonstrate that minimum wages may lower employment and welfare in a monopsony model while subsidies rather than taxes are efficient for a common class of utility functions.

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<sup>&</sup>lt;sup>1</sup> Marning (2003) p.360 lists the sources of monopsony power as "Ignorance among workers about labor market opportunities, individual heterogeneity in preferences over jobs and mobility costs".

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