

SOME RESEARCH TOPICS FOR STUDENTS

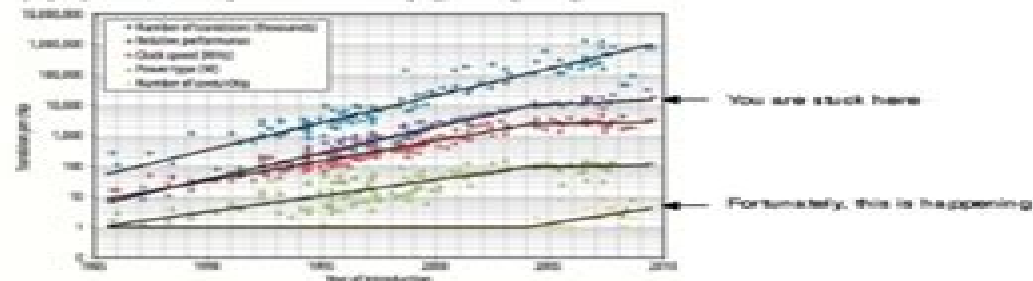
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Here's a quick overview of some research topics I'm interested in. I've also worked with many students that initiated their own project. If you have something interesting to pursue come and discuss it. I've emphasized PhD thesis topics, but for some of the areas there are undergraduate research projects available. Most of our research involves parallelism, though some is serial. Most, *but not all*, of my students:

- design algorithms for various abstract models of parallelism (with myriad tiny processors or agents)
- and/or design algorithms for real computers (machine learning, multidisciplinary science, etc.)
- and/or model and analyze some aspect of parallelism or cooperative behavior

Former students have gone on to careers at universities, Google, IBM, Intel, Microsoft, think tanks, Silicon Valley startups, national research labs, etc. Two won awards for *Best Thesis* within the entire university.

Many computational/learning/social processes are inherently parallel: your brain, internet traffic, evolution, the stock market, etc. Another important reason to study parallelism: *computers aren't getting any faster* (due to pesky limitations imposed by physics), but problems keep getting larger and harder.



For example, Facebook has more than a billion users, and probably $> 10^{11}$ messages have been left on users' walls. Suppose you want to find the strongly connected components of the directed graph with edges given by who wrote a message on whose wall. This takes at least 15 minutes using an optimized implementation of Tarjan's algorithm. Finding strongly connected components is often the first step in much harder graph problems. Perhaps the harder problem takes $100\times$ as long — do you want to wait a day for its solution?

Can the 15 minutes be reduced to 15 seconds, and the day to less than 1/2 hour? Not on a serial computer; Tarjan's serial algorithm is optimal in O -notation, and the high-order coefficients are close to absolutely optimal. 15 seconds should be possible on a parallel computer. However, you need a new algorithm since Tarjan's uses depth-first search, which can't be parallelized.

Laptops have graphics processors (GPUs) with ≈ 100 processors, IBM's Watson computer won Jeopardy by using $\approx 3,000$ cores, supercomputers have $> 10^6$ cores, etc. However, for many problems there are no efficient parallel programs, so there are many open research problems. Here's a whimsical explanation of parallel computing: <http://web.eecs.umich.edu/~qstout/parallel.html>



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Rachel F. Baskerville



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Applying IFRS Standards Ruth Picker, Leo van der Tas, David Kolitz, Gilad Livne, Janice Loftus, Miriam Koning, Cathrynne Service, 2025-04-17 A comprehensive IFRS practice resource from leading accounting authorities In the newly revised fifth edition of Applying IFRS Standards a team of accounting experts delivers a comprehensive practice resource designed for accountancy students and accounting practitioners seeking to better understand the complexities of International Financial Reporting Standards IFRS The book begins with an overview of the International Accounting Standards Board IASB and explains how it establishes accounting standards before moving on to a discussion of the key concepts and applications of IFRS It offers insights and examples sourced from the international business world and addresses the skills you need to apply the standards in real world business environments In addition to a comprehensive factual breakdown of the IFRS Standards parts of the book are accompanied by an academic perspective which offers key relevant research findings Applying IFRS Standards provides discussion questions exercises and references as well as complimentary access to a companion website that contains additional chapters instructor slides test banks more exercises a solutions manual and new IFRS Learning Resources This is an essential learning tool for students and early career accounting professionals as well as a useful desk reference for established accounting practitioners

IFRS Adoption in Research and Development Companies Yusuf Nulla, 2014 Globally the use of the IFRS in financial reporting is the requirement in many countries However the question of whether such a global transition towards a single set of accounting standards has been met by the presumed benefits of higher accounting quality and comparability yet remains unanswered This paper primarily examines the effect of the mandatory IFRS adoption in Canada by the research and development companies It was a comparative study between the Canadian GAAP financial reporting from 2008 to 2010 and IFRS financial reporting from 2011 to 2012 Since this research is an empirical study the quantitative research method is applied The research question of this research study is Does IFRS adoption improve accounting quality in research and development companies This research finds that lower persistency and predictability in earnings decrease in earnings influence to shareholder value weak volatility in market price better predictability of cash flow and financial forecasts increase in accruals and timeliness loss of recognition and decrease in research and development expenditures

The introduction of IFRS. Consequences for investment decisions Simon Falcke, 2020-07-09 Seminar paper from the year 2019 in the subject Business economics Investment and Finance grade 1 0 Otto Beisheim School of Management Vallendar language English abstract Starting in 2005 the portion of foreign shareholders in the Dax has risen from 45% to 58% in the last decade In the same year the regulation of the European Union from 2002 came into effect which required all listed firms in the European Union to report their consolidated accounts in accordance with the International Financial Reporting Standard IFRS from 2005 on instead of each countries generally accepted accounting standards GAAP This is just one example where the volume of investments increased concurrently with

the adoption of IFRS Therefore the question arises if the mandatory adoption of IFRS in the EU in 2005 or in other cases significantly affected and continues to affect investment decisions among adopters or third parties In order to better account for differences between different types of investors and investees we differentiate between retail investors institutional investors and corporate finance activities Moreover we focus on the consequence of IFRS adoption on equity investment decisions as most research appears to focus on the equity instead of the credit market Additionally Lourenco Branco point out that most research which finds no significant effects of IFRS adoption on investment decisions appears to focus on voluntary adoption before 2005 Thus this paper mainly focuses on mandatory IFRS adoption In this context research suggests that mandatory IFRS adopters experience significant capital markets benefits as well as enhanced foreign institutional ownership and enhanced M A activity Ultimately we observe four overarching drivers behind the aforementioned observations that impact investment decisions across different types of investors and investees

The Adoption of IFRS in Poland Iwona Vellam, 2012 The introduction of IFRS International Financial Reporting Standards in the EU in 2005 was perceived to be a major step towards greater global harmonisation of accounting leading to better comparability and uniformity of financial statements Deloitte Touche Tohmatsu 2005 However prior literature suggests that there are significant national differences in de facto application of the international standards Kvaal and Nobes 2010 Krzywda and Schroeder 2007 This thesis supported with empirical data contributes to knowledge by rejecting the argument commonly put forward by the International Accounting Standards Board IASB and other policy setters that the adoption of IFRS will in itself be sufficient to achieve harmonisation of accounting practice The research uses a case study of Poland to address three main research questions Firstly whether the accounting standards as promulgated by IASB International Accounting Standards Board have been fully adopted by Polish listed companies Secondly the thesis addresses the question that if Polish companies are not compliant with IFRS what are the reasons for the non compliance The thesis draws on the sociological perspective of new institutional theory as put forward by Meyer and Rowan 1977 and DiMaggio and Powell 1983 to explain the reasons for the deviation in accounting practice from IFRS in Poland The response of the Polish companies to the external demands to adopt IFRS has been evaluated using the model developed by Oliver 1991 where responses may vary from full acquiescence to defiance Thirdly the thesis addresses the question to what extent is new institutional theory adequate for explaining the motives driving the behaviour of various actors in the field of financial reporting The study contributes to knowledge by linking institutional theory to organisational behaviour and accounting practice in a transition economy in a novel and previously unexplored way in order to gain a better understanding of the role of accounting in Poland The study of Poland provides a particularly insightful and novel approach for the study because Poland is a post communist economy and so its national institutional orientation is significantly different to the Anglo Saxon origins of IFRS Poland is also a recent entrant to EU and so the interaction of communist legacy with market orientation allows better understanding of the institutional and

economic factors that shape accounting The thesis maintains that financial reports produced by Polish companies are rationalised myths due to the largely ceremonial adoption of IFRS Furthermore the quality of accounting is affected by various competing institutional forces The thesis makes a contribution to the theory by challenging the narrow perspective of mainstream new institutional theory which focuses on the homogeneity and permanency of existing practices In contrast this research focuses on the dynamic conflict between the existing structures and new regulatory pressures that lead to the breakdown of old institutional arrangements In particular the study addresses two aspects of institutional theory that have been neglected in prior research Firstly drawing on Lounsbury 2008 the notion of multiple logics and therefore different concepts of rationality have been mobilised to explain variation in accounting practice Secondly the role of power and conflict are used to explain the current institutional arrangements in Poland and the changing role of the accountancy profession Lawrence 2008 In adopting the power and multiple logics perspectives which are not addressed in the earlier seminal works a better insight has been gained into the heterogeneity of organisations rather than accepting the notions of order and stability Using institutional perspective it is argued that companies are failing to comply fully with IFRS because they face a multiplicity of expectations arising from different institutional origins Their strategic response to these pressures is to compromise to satisfy the competing demands of the accounting profession investors and the tax authorities The power and resource dependency constructs were also utilised to explain how major firms of accountants attempt to penetrate the existing accounting structures in Poland and so influence the role that accounting plays in Poland The analysis also highlights the tensions between the various bodies and the impact that has on company reporting In particular both the state and other stakeholders utilise a common set of financial statements and the extent to which they meet the objectives of each user group is explained using the power construct Following call by Suddaby 2010 and DiMaggio 1985 for greater research focus on actions at actor level this research considers individual organisational responses to the requirement to introduce IFRS into Polish accounting framework The thesis finds that that Polish companies will change their established practices in response to the external influences and their actions are rationally determined based on different logics and the relative influence of coercive forces which either promote or hinder change The research has found that in Poland coercive pressure was the primary mechanism for achieving isomorphism whilst prior literature indicates that in market economies mimetic mechanism was far more important This coercive mechanism was particularly potent due to the strong influence of the state which was a legacy of the communist system leading to weak accountancy profession In contrast increasing influence of the global accountancy firms and EU regulation are forcing the changes to the accounting regulation governance structures and education of accountants in Poland The research finds that in spite of the fact that all companies examined purport to comply with IFRS there are significant deviations in de facto compliance The findings provide strong evidence of decoupling through superficial compliance Organisations are not however decoupling in a uniform manner but appear to selectively decide on

areas where they comply or not. In particular, lack of compliance with disclosure requirements appear to be related to cultural characteristics of secrecy and power distance which were prevalent in the communist era. Research confirms that companies compromise by making explicit statement of compliance with IFRS whilst in many cases failing to meet the spirit of IFRS in failing to fully provide useful information for the stakeholders. Even where there is compliance, the introduction of IFRS has not improved uniformity due to the use of alternative treatments permissible under IFRS. The research utilises a mixed methodology to gain a deeper understanding of the complexity of the factors implicated in shaping of accounting. In order to identify the level of compliance with IFRS, published financial data for 2005 for 40 Polish companies that are listed on the Warsaw Stock Exchange is analysed and then explained with in depth interviews held with representatives of the institutions implicated in the study. The differences between Polish accounting regulation and IFRS were measured using comparability index first proposed by Gray 1980.

How Does the English of IFRS Challenge an International Student Cohort? Evidence from a Chinese Cohort Rachel F. Baskerville, 2017. Educators and regulators world wide are recognizing a range of problems that are arising in both teaching and implementation of IFRS due to language and translation issues. The research question asks what it is about the English in which IFRS are written that causes problems for an effective understanding of IFRS by a Chinese undergraduate student cohort. All 88 participants with Chinese as their first language were studying accounting at New Zealand and Chinese Universities. They translated and then independently back translated four sentences of IFRS chosen for the research. There were 168 back translations useable for the analysis. This study highlights the specific problems students face in understanding the specialized English of accounting and in particular illustrates problems with the syntax and lexicon used in IFRS. The significance of the findings of this paper originate in the method used; there are other studies which tackle the issue of translatability but only using a quantitative approach. The analysis of these sentences from IFRS is detailed enough to illustrate exactly how problems arise in syntax and the lexicon. We suggest what steps educators may take to alleviate the degree to which pedagogical outcomes are compromised by such issues of understandability.

Institutional Theory and IFRS Marta Silva Guerreiro, 2020. This paper highlights the capacity for Institutional Theory (IT) to render in depth understanding of change processes associated with the adoption and implementation of international accounting standards by countries and organizations. Although the fact of requiring the adoption of IFRS could be characterized as a form of coercive power, recent developments in IT help to explore the extent to which adoption and diffusion of IFRS is shaped by agency, the interests of actors involved in the adoption process and the role of institutional entrepreneurs and institutional work. We provide a structured review of literature that uses an IT framework in the context of adopting and implementing IFRS. The review brings together various streams of IT and current debates in the management and organization literature. This allows us to outline an agenda for future research that proposes six new research questions for investigation. These research questions are intended to encourage greater regard for the capacity of the theoretical toolkit.

of institutional logics to explore institutional entrepreneurship institutional work and the institutional dynamics of change processes associated with the adoption maintenance and disruption of accounting systems

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