## SOUTH ASIAN JOURNAL OF MANAGEMENT RESEARCH (SAJMR)

Volume 14, No. 2 March, 2024

**SPECIAL ISSUE** 





# Chhatrapati Shahu Institute of Business Education & Research (CSIBER)

(An Autonomous Institute)

University Road, Kolhapur-416004, Maharashtra State, India.

E-mail: editorsajmr@siberindia.edu.in Website: www.siberindia.edu.in

# SOUTH ASIAN JOURNAL OF MANGEMENT RESEARCH (SAJMR)

ISSN 0974-763X

(An International Peer Reviewed Research Journal)



Published by

### CSIBER Press, Central Library Building Chhatrapati Shahu Institute of Business Education & Research (CSIBER)

University Road, Kolhapur - 416 004, Maharashtra, India

Phone: 0231-2535706, 2535707. Fax: 0231-2535708 www.siberindia.edu.in, E-mail:editorsajmr@siberindia.edu.in

- Chief Patron Late Dr. A.D. Shinde
- Patrons
  Dr. R.A. Shinde
  Managing Trustee
  CSIBER, Kolhapur, India
- I CA. H.R. Shinde Trustee Member CSIBER, Kolhapur, India
- Editor **Dr. Pooja M. Patil** CSIBER, Kolhapur, India
- Editorial Board Members

  Dr. S.P. Rath

  Director, CSIBER, Kolhapur, India
- Dr. Deribe Assefa Aga Ethiopian Civil Service University, Addis Ababa, Ethiopia
- Dr. Biswajit Das
  KSOM, KIIT, Bhubaneshwar, India
- Dr. Yashwant Singh Rawal
  Parul University, Vadodara, India
- Dr. Yuvraj Sunecher University of Technology, Mauritius
- Dr. Ravinthirakumaran Navaratnam University of Vavuniya, Sri Lanka
- Dr. Nyo Nyo Lwin Yangon University of Education, Myanmar
- I Dr. Needesh Ramphul University of Technology, Mauritius
- Dr. K. Arjunan
  University of Vavuniya, Sri Lanka
- Dr. Amitabye Luximon-Ramma
  University of Technology, Mauritius
- Superintendent
  Mrs. Maithili Santosh
  CSIBER, Kolhapur, India
- Type Setting & Formatting Mr. S. Y. Chougule CSIBER, Kolhapur, India

# **Chhatrapati Shahu Institute of Business Education and Research (CSIBER)**

# South Asian Journal of Management Research (SAJMR)

**Volume 14, No. 2, March 2024** 

Editor: Dr. Pooja M. Patil

### **Publisher**

### **CSIBER Press**

**Central Library Building** 

Chhatrapati Shahu Institute of
Business Education & Research (CSIBER)
University Road, Kolhapur – 416004, Maharashtra, India.
Phone: 91-231-2535706/07, Fax: 91-231-2535708,

Website: www.siberindia.edu.in Email: <u>csiberpress@siberindia.edu.in</u> Editor Email: <u>editorsajmr@siberindia.edu.in</u>

### Copyright © 2024 Authors All rights reserved.

### Address: CSIBER Press

Central Library Building
Chhatrapati Shahu Institute of Business Education and Research (CSIBER),
University Road Kolhapur, Maharashtra - 416004, India.

All Commercial rights are reserved by CSIBER Press. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in form or by any means, Electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher.

The views expressed in this journal are entirely those of the authors. The printer/publisher and distributors of this book are not in any way responsible for the views expressed by the author in this journal. All disputes are subject to arbitration; legal actions if any are subject to the jurisdictions of the courts of Kolhapur, Maharashtra, India.

ISSN 0974-763X

Price: INR 1,200/-

Editor: Dr. Pooja M. Patil

### **Publisher**

### **CSIBER Press**

### **Central Library Building**

Chhatrapati Shahu Institute of Business Education & Research (CSIBER)

University Road, Kolhapur – 416004, Maharashtra, India.

Phone: 91-231-2535706/07, Fax: 91-231-2535708,

Website: www.siberindia.edu.in Email: csiberpress@siberindia.edu.in

Editor Email: editorsajmr@siberindia.edu.in

**Editorial Note** 

South Asian Journal of Management Research (SAJMR), is a scholarly journal that publishes

scientific research on the theory and practice of management. All management, computer

science, environmental science related issues relating to strategy, entrepreneurship, innovation,

technology, and organizations are covered by the journal, along with all business-related

functional areas like accounting, finance, information systems, marketing, and operations. The

research presented in these articles contributes to our understanding of critical issues and offers

valuable insights for policymakers, practitioners, and researchers. Authors are invited to publish

novel, original, empirical, and high quality research work pertaining to the recent developments

& practices in all areas and disciplined.

Cross-functional, multidisciplinary research that reflects the diversity of the management science

professions is also encouraged, the articles are generally based on the core disciplines of

computer science, economics, environmental science, mathematics, psychology, sociology, and

statistics. The journal's focus includes managerial issues in a variety of organizational contexts,

including for profit and nonprofit businesses, organizations from the public and private sectors,

and formal and informal networks of people. Theoretical, experimental (in the field or the lab),

and empirical contributions are all welcome. The journal will continue to disseminate knowledge

and publish high-quality research so that we may all benefit from it.

Dr. Pooja M. Patil

Editor

### South Asian Journal of Management Research (SAJMR)

March, 2024

Volume 14, No. 2

College of Urban Development and Engineering,

Ethiopian Civil Service University, Addis Ababa, Ethiopia

CONTENTS **Editorial Note** Page No. Human Rights-Based Approaches to Capital Punishment: An Analysis of International Viewpoints Mrs. Bhavna Mahadew 1 Lecturer of Law, University of Technology, Mauritius. Assessing the Contents of the Ethical Leadership and Anti-corruption Training Program, and the Leaders 'Competency Assessment, Certification and Licensing Methods: From the Experts **Perspective (Experience)** Dr. Najimaldin Mohammedhussen Specialist in the Anti-Corruption area, The Federal Ethics and Anti-corruption Commission of 6 Ethiopia, Addis Ababa, Africa. Prof. (Dr.) S. P. Rath Director, CSIBER, India. A Study of Marketing Problems and Solution for Paddy Cultivation in Jaffna. Mr. S. Edward Reginold Deputy Registrar, University of Jaffna, Sri Lanka Mr. K. Gnanabaskaran 29 Deputy Registrar, University of Jaffna, Sri Lanka Mr. Sivanenthira, S, Lecturer, University of Vavuniya, Sri Lanka Theoretical Insights on the Latest Update of Integrated Reporting Framework: Value Creation, **Preservation or Erosion?** Mr. Geerawo T. S. University of Technology, Mauritius Dr Jugurnath B. *32* University of Mauritius, Mauritius Dr Luckho T. Open University of Mauritius, Mauritius Morphological Transformation and Emerging Mixed use built forms in Town, Ethiopia, The case of Gombora Corridor. Dr. Daniel Lirebo Sokido 44

Bitcoin Integration in Mauritius: Evaluating Public Perspectives, Challenges, and Potential Disruptions in the Financial Landscape - A Qualitative Study Dr. Eric V. BINDAH	
University of Mauritius, Mauritius  Miss. Leenshya GUNNOO  University of Technology, Mauritius	68
A Comparative Study of the Effect of Two Composted Organic Fertilizers of Water Hyacinth on the Growth of Chinese Mustard (Brassica Juncea)  Miss. Thin Lae Lae Hlaing	
Demonstrator, Department of Chemistry, Yangon University of Education, Yangon, Myanmar.  Dr. Nay Mar Soe Professor & Head, Department of Chemistry, Yangon University of Education, Yangon, Myanmar	79
Factors Influencing the Individuals Investment Decisions in Jaffna District  Mr. Sureshkumar, K	
Bursar, University of Jaffna, Sri Lanka	88
Corporate Governance and Performance of Listed Companies in Mauritius  Dr. Yuvraj Sunecher	
University of Technology, Mauritius  Dr. Needesh Ramphul	
University of Technology, Mauritius  Prof. Dr. Hemant Chittoo	92
Professor in Public Policy and Management at the University of Technology, , Mauritius.  Mr. Namah Muhammad Azhar  University of Technology, Mauritius	
Mainstreaming Climate-Smart Coffee in District Local Government Development Plans: A Case Study of Sheema District, Uganda  Mrs. T. Makoondlall-Chadee	
School of Sustainable Dayslonment and Tourism University of Technology Mauritius	104
Miss. Namusobya Scovia Researcher - Local District Office, Uganda	107
An Analysis of YUOE Students' Errors in their Writing  Miss Nan Kham San	
Assistant Lecturer, Department of English, Yangon University of Education, Myanmar	133
Impact of Celebrity Endorsement Towards Brand Equity with Special Reference to Carbonated Softdrinks.	
Mrs. Sumithra, K Deputy Registrar, University of Jaffna, Sri Lanka	141
Mrs. Dineshkumar, S Senior Lecturer, University of Jaffna, Sri Lanka	171
Mr. Sivanenthira, S	
Lecturer, University of Vavuniya, Sri Lanka	

The Human Right to Development as A Conceptual Framework to International Investments: An Effective Way towards the Protection of Human Rights Related to Business.  Mrs. Bhavna Mahadew	146
Lecturer of Law, University of Technology, Mauritius	170
An Evaluation of Green Human Resource Management Practices in a Governmental Organization	
in Mauritius.	
Dr. Needesh Ramphul	
University of Technology, Mauritius	
Dr. Yuvraj Sunecher	1.50
University of Technology, Mauritius	150
Prof. Dr. Hemant Chittoo	
Professor in Public Policy and Management at the University of Technology,, Mauritius.	
Miss. Neha Bahal University of Technology, Mauritius	
High School Teachers' Teaching Practices for Students' 21st Century Skills	
Prof. Dr. Khin Mar Khine	
Professor & Head, Department of Curriculum and Methodology, Yangon University of Education,	<b>4.50</b>
Yangon, Myanmar	158
Hay Mar Nyo Win	
Senior Assistant Teacher, BEHS (Phado), Myanmar	
Driving Sustainable Growth: Exploring Digital Marketing Adoption among SMEs in	
Mauritius for Innovation and Resilience	
Miss. Leenshya GUNNOO	1/7
University of Technology, Mauritius  Dr. Eric V. BINDAH	167
University of Mauritius, Mauritius	
Examining the Prevalence and Impact of Miscarriages of Justice on the Criminal Justice	
System: A Critical Assessment	
Mr. Viraj Fulena	
Lecturer in Law at the University of Technology, Mauritius	182
Prof. Dr. Hemant Chittoo	
Professor in Public Policy and Management at the University of Technology, Mauritius.	
The Value Relevance of Integrated Reporting and Deferred Taxation in UK-listed Companies	
Mr. Geerawo T. S.	196
University of Technology, Mauritius	170
Stormwater Management with Public Amenities at East Coast Park, Singapore	
Mr. Kshitij Asthana	208
AECOM Singapore Pte. Ltd, Singapore	200
Behavioral Health Implications of Auto Inflammatory Disease Assessment	
Dr. Kennedy Paron	
Michigan, USA	
Miss. Erin Day	214
Michigan, USA	217
Miss. Sophie Quirk	
Michigan, USA	

### The Value Relevance of Integrated Reporting and Deferred Taxation in UK-listed Companies

### **Geerawo T. S.**University of Technology, Mauritius

#### **Abstract**

Over time, research has primarily focused on analysing the value relevance of Integrated Thinking and Reporting (IR) and deferred taxation (DT) in isolation, overlooking their interconnectedness. This study fills this gap by examining their indirect relationship using a sample of 399 publicly listed UK companies from 2013 to 2022, totalling 3,865 firm observations. Employing panel data regression models with industry and year fixed effects, supplemented by Seemingly Unrelated Regression models for robustness testing, the paper's findings reveal a significant positive association between IR and firm value. Additionally, the analysis demonstrates a negative coefficient between DT expense and DT liability with firm value, while the market perceives deferred tax assets positively. Furthermore, the paper's results suggest no moderating effect of IR on net deferred tax expenses. This research contributes new insights to the existing literature on IR and enhances understanding of the market implications of DT and IR interactions.

**Keywords:** Deferred tax expense, Net deferred tax liabilities, Integrated Reporting Framework, Value Relevance, Deferred tax assets

### Introduction

Integrated reporting, or <IR>, is a relatively new concept in the context of accounting and financial reporting. In the past 10 years, IIRC (2013) has developed the IR global Framework, which aims to create "a world in which integrated thinking is embedded within the mainstream business practice." Because of its potential to enhance financial reporting quality over the short, medium, and long term as well as provide a comprehensive understanding of a company's performance and its effects on the environment and society, IR is a promising strategy that has garnered a lot of attention recently (Vitolla et al., 2019).

To provide a more complete view of a company's operations, IR combines financial and non-financial data, including disclosures on many capitals, into a single report (Soriya & Rastogi, 2021). These capitals include financial, intellectual, social, and natural capital amongst others, according to the IIRC (2013) and Velte (2022). As a result, IR has grown to be an essential tool used by companies to educate stakeholders about their social responsibility and environmentally friendly business practices (Dey, 2020).

Businesses are increasingly adopting integrated reporting, recognising its benefits in promoting social responsibility and sustainability. As a result, companies are beginning to acknowledge the potential advantages of integrated reporting in terms of profitability and firm value. Research by Tlili et al. (2019) highlights the significant impact that integrated reporting and sustainable reporting can have on corporate value. Furthermore, empirical studies such as that by Sun et al. (2022) demonstrate a positive correlation between higher business value and greater quality of multiple capital disclosure (MCD). With the growing importance of multi-capital disclosures, it is anticipated that the adoption of integrated reporting and sustainability practices will continue to increase as firms aim to enhance their overall performance and societal impact.

There is considerable debate about whether MCD/IR increases a firm's value relevance. Sun et al. (2022) and Tlili et al. (2019) suggest that MCD/IR has a positive impact on corporate value, however Landau et al. (2020) and Cortesi & Vena (2019) find no significant impact or even a negative one. The conflicting results of this research suggest that the relationship between MCD/IR and corporate value relevance is intricate and contingent upon several factors, such as the country or industry in which the company operates and the quality of the reports. More research is needed to better understand the conditions in which MCD/IR could raise the importance of firm value and look into potential moderating variables.

Deferred taxes also hold significant importance in financial reporting, as they bridge the gap between taxable income and accounting requirements. This aspect is often leveraged to provide informational value,

although it warrants additional research (Flagmeier, 2022). "Deferred taxation" refers to temporary variances between tax and accounting values that result in postponed tax payments. As highlighted by Soliman and Ali (2020), a company essentially acknowledges the variance between taxes paid and those still owed. Studies by Soliman & Ali (2020) and Görlitz & Dobler (2021) have demonstrated the value relevance of deferred taxation items. However, their impact on the relationship between integrated reporting (IR) and corporate value remains unclear. Further exploration is needed to understand how deferred taxes moderate the relationship between multiple capital disclosure (MCD)/IR and business value fully. While existing research suggests the value significance of deferred taxation, a deeper understanding is essential due to its complex implications on a company's financial performance.

The study aims to examine the relationship between deferred taxes and business value, the correlation between IR quality score and firm value, and the moderating impact of IR on the value relevance of deferred taxes. As previously mentioned, the literature that is currently available has looked at the relationship between DT and Market Value (Soliman & Ali, 2020) or the value relevance of integrated reporting (Baboukardos & Rimmel, 2016; Haleem et al., 2020). This will fill the research gap in the literature about the relationships between deferred taxes, IR, and firm value.

### Literature Review and Hypotheses Development

#### IR: A short Literature review

The adoption of integrated reporting (IR) by businesses has attracted considerable attention in the accounting literature, as it is seen as offering a more comprehensive depiction of a company's activities and value creation. Integrated reporting aligns with the concept of integrated thinking, which has been emphasized by the International Integrated Reporting Council (IIRC) since 2013. The importance of integrated thinking was further emphasised in 2021, with modifications highlighting the significance of managing interactions with stakeholders and the environment, as well as overcoming the difficulties of operating within complex ecosystems (IIRC, 2021).

Internal benefits, external benefits, and a decrease in regulatory risks are the three primary advantages of IR (Dumay, 2016; Vitolla et al., 2019). Internal benefits manifest with better judgements about the distribution of resources yield competitive advantages (Vitolla et al., 2019). External benefits arise when meeting the demands of investors who want non-financial information resulting in not only external but also informational benefits (Vitolla et al., 2019). A decrease in regulatory risk occurs when firms are being equipped early in the event that regulators need further information which also helps to ease uncertainties and jeopardies (Dumay et al., 2016). The value relevance of IR is one of the least explored topics, according to Soriya and Rastogi (2022), which supports the findings of other authors' systematic reviews (Dumay et al., 2016; Vitolla et al., 2019) while the theoretical elements of IR are the most studied field of IR. Therefore, the shareholders, possible investors, institutions, and other capital market stakeholders may all profit from the research of value relevance.

Since the IIRC (2013; 2021) adopted and restated the multi-capital disclosures for IR, several researchers have examined the effect of these disclosures on a firm's market valuation; however, in contrast, very few have concentrated on the effect of IR on the capital market. From these, several studies (Haleem et al., 2020; Zhou et al., 2017) discovered evidence of a positive correlation between IR and corporate valuation. The research population, the number of businesses, and the nations under investigation were all different in the studies.

Numerous studies emphasised that South Africa was the first nation to mandate the use of IR (Atkins & Maroun, 2015; Corvino et al., 2020). These studies created an IR score and went further into the disclosures mandated by Integrated reporting capitals. When IR became a requirement in South Africa, several academics compared the two time periods and discovered that company value (Zhou et al., 2017) or earnings valuation had increased in value (Baboukardos & Rimmel, 2016). In a mandated context, integrated reporting has essentially been warmly welcomed.

Integrated reporting and market value have been found to positively correlate in several research papers, albeit in various contexts. In their analysis of Chinese A-share companies, Sun et al. (2022) find that while the quality of material capital disclosure may boost profitability, higher disclosure quality of multiple capitals in IR leads to larger firm value. Dey (2020) looks at Bangladeshi banking businesses and discovers that IR practices have a major beneficial influence on company value. The implementation of IR has a

favourable and considerable influence on the value relevance of other comprehensive income, according to Tlili et al. (2019) research of South African enterprises. According to an analysis of bank-integrated reports by Haleem et al. (2020), integrated reporting significantly affects an organization's value relevance. Market value and earnings valuation have some favourable correlations, according to Baboukardos & Rimmel (2016). Additionally, several studies show that firms with high-quality investor relations have a better market valuation than companies that publish with a lower IR quality score (Barth et al., 2017; Zhou et al., 2017).

Nevertheless, other voluntary contexts, meanwhile, have not received as much research attention. example of such voluntary settings on the impact of certain elements, such as assurance in one of the biggest European stock exchanges, and the value significance of integrated reporting was given by Landau et al. (2020). The results illustrated the theory that IR has a negative influence on market value based on the premise of the cost concerned school. However, as it counteracted the negative impact, the study showed that the reports' quality mattered for market value. Therefore, it is still uncertain if IR is valuable to the market of voluntary adopters. According to Cortesi and Vena (2019), although IR has no beneficial effect on the value relevance of book value, it does increase corporate disclosure, lessen information asymmetries, and improve the quality of reported profits per share. According to Fernando et al. (2018), the adoption of integrated reporting has no impact on the applicability of accounting data. Abhayawansa et al. (2018) discovered that since the reports lacked the necessary information in a format that was desired or with sufficient detail, IR was not helpful for firm evaluation. Interviews with fund managers and analysts indicated a poor value for integrated reporting, even with institutional backing, according to Slack and Tsalavoutas (2018). Even if Flower (2020) is somewhat critical of integrated reporting, investors are aware that the integration of non-financial reporting has some value. Thus, based on the summary of the findings from the literature, it is expected that:

H1: The market value of firms is positively associated with integrated thinking and reporting score.

#### **Deferred taxation: A short literature**

Deferred taxes have long been a subject of contention and scrutiny within financial accounting, owing to their role in reconciling differences between taxable income and accounting requirements. Over the past few decades, numerous studies have delved into the value relevance of deferred taxes, aiming to understand their informational significance for financial statement users and their potential manipulation by firms. The investigation into the variations in book taxes and their potential implications, whether temporary or permanent, has attracted scholarly attention due to its complexity and relevance in understanding tax avoidance strategies (MacCarthy, 2021; Machdar, 2022). Despite existing research shedding light on this area, there remains a need for further investigation to ascertain the market's interest in deferred tax information of this nature. This literature review synthesizes key findings from influential studies on deferred taxes, focusing on their value relevance and implications for accounting practice and regulation.

Amir et al. (2001) explored the value relevance of deferred taxes in US GAAP, finding that deferred taxes were indeed value-relevant due to their deferral of tax payments. Their study highlighted the importance of categorization in improving the informational content of deferred taxes. Chang et al. (2009) investigated the value relevance of deferred tax accruals under the income statement method, finding positive associations between recognized deferred tax assets and firm value. Their study highlights sector-specific implications and signals that deferred tax liabilities reflect future tax payments, particularly for loss-making companies. Wong et al. (2011) offered conceptual solutions for enhancing deferred tax value relevance in New Zealand, after analysing the measurement option between comprehensive and partial allocation. They proposed partial allocation and discounted measurement as methods to improve relevance and understandability, and conclude that deferred tax liability is relevant for equity valuation. Hanlon et al. (2014) compared the value relevance of deferred tax elements under the balance sheet method with the taxes payable method. While they found limited additional value relevance for deferred tax balances under the balance sheet method, they emphasized the deferred tax on revaluation of assets are valued by investors as real liabilities.

Mear et al. (2020) examined the incremental value relevance of balance sheet deferred tax accounting, particularly focusing on the choice between balance sheet method rather than the tax payable method. Their results supported the relevance of footnotes on deferred tax to be higher than the amounts recognised per the balance sheet method. Guia & Dantas (2020) investigated the market value impact of deferred tax assets in the Brazilian banking industry. Their findings revealed a negative relationship between DTAs and market value, signalling investor concerns about the quality of equity and profit in the context of asymmetries

between taxable and corporate earnings. Görlitz and Dobler (2021) conducted a systematic review of empirical evidence on deferred taxes' value relevance and their role in earnings management in the US. Their findings suggest that while there is substantial evidence supporting the value relevance of various deferred tax items, there is limited evidence of firms using deferred taxes to manage their earnings. This emphasises the importance of understanding the dynamic relationship between deferred taxes and firm value. Using the Jones & Miller Model, Soliman and Ali (2020) determine the value significance of deferred tax in Egyptian listed enterprises. According to Sutopo et al. (2021), a big negative deferred tax paired with a large negative accrual has no effect on the link between profits and company value, whereas a large positive deferred tax combined with a large positive accrual weakens it. After analysing the German accounting system, Flagmeier (2022) comes to the conclusion that aggregate deferred taxes are significant to value. As Soliman & Ali (2020) mentions that deferred taxes are a significant component of discretionary accruals and helps to smooth profits and losses for aggravated earnings management, it is expected that:

**H2**: The market value of listed firms would be negatively associated with deferred tax expense and deferred tax income.

H3: The market value of listed firms would be negatively associated with deferred tax assets and deferred tax liabilities.

Given the benefits of the Integrated Thinking and Reporting process from the IIRC, especially based on the value creation activities mentioned in the IIRC (2021), as well as value preservation and disclosure on value erosion as well, it is expected that the Integrated Reporting system would moderate the value relevance of deferred taxes. Thus, the paper expects that:

H4: The market is of the opinion that there is a moderating effect of IR on Deferred Taxes.

### Methodology

To generate an appropriate model, the paper modifies the use of the Ohlson (1995) model which had been adopted by Landau et al. (2020).  $MV_{j,t}$  refers to the market value of a firm j at time t. The coefficients ( $\alpha$ ) of the independent variables represent their contribution to the variation in  $MV_{j,t}$ . The fixed effects register for endogeneity. The error term ( $\epsilon$ ) represents the unobserved factors that affect  $MV_{j,t}$ . The model estimates the values of  $\alpha$ 0,  $\alpha$ 1, and  $\alpha$ 2 that best fit the data. As per Tliti et al. (2019), negative book values have been deleted from this analysis. This method has been extensively used in previous literature (Roychowdhury & Watts, 2007). For NI, the signed log method was utilised in this study to allow for the direction of movement of the variable. This method is mostly used for financial statement data, especially when there is much possibility of the variable being negative (Siimon & Lukason, 2021). All values are logged due to differences in the sizes of the listed companies across the UK (Cooke et al., 2009). The following equation helps to solve the first hypothesis:

$$MV_{i,t} = \alpha_0 + \alpha_1 BV_{i,t} + \alpha_2 NI_{i,t} + \alpha_3 IR_{i,t} + Industry FE + Year FE + \varepsilon$$

[1]

Where:

 $MV_{j,t}$  is the natural logarithm of market value  $BV_{j,t}$  is the natural logarithm of book value of equity  $NI_{j,t}$  is the natural logarithm of net income (profitability) for the year  $IR_{j,t}$  is the Integrated Reporting Score proxy IndustryFE is the industry fixed effects YearFE is the year fixed effects  $\alpha_0$  is the intercept  $\alpha_1$  is the coefficient for BV  $\alpha_2$  is the coefficient for NI  $\alpha_3$  is the coefficient for IR  $\epsilon$  is the error term

The paper uses a similar methodology for the Ohlson model as Landau et al. (2020). The IR framework score is an objective rating provided by Refinitiv Eikon (Asset 4 successor) software based on their inhouse assessment. Therefore, the integrated strategy in MD&A score as presented by the database can be

used as a proxy for integrated thinking and reporting quality scores (Dimes, 2023). Financial and non-financial data, encompassing profits, book value of equity, and net deferred taxes, were aggregated from the Refinitiv Eikon database. This extensive repository houses data from numerous companies and employs firm-reported information to compute scores reflecting a firm's achievement, stakeholder engagement, and overall effectiveness (Thomson Reuters, 2023).

To account for the subsequent hypotheses, equation 1 will be modified to include components of deferred taxes. In Equation 2, the paper follows Laux (2013), Lopez et al. (2020) and Flagmeier (2022) in segregating the deferred tax items into positives and negatives to consider the effects of each sub-item as combining both could lead to a loss of valuable information about its impact. Furthermore, to examine hypothesis 3, the paper adopts a moderating interaction effect methodology. Sutopo et al. (2021) employed moderating effects which made use of the interaction of the two independent variables. This paper adopts the latter methodology to examine the moderating effects of the Integrated Thinking and Reporting score on the value relevance of deferred taxation items. This methodology is not new to research as it has been employed in several other studies (Obeng et al., 2020; Rahman et al., 2020).

### The updated model is to include deferred taxation and moderating effects as per below:

$$\begin{aligned} MV_{i,t} &= \alpha_0 + \alpha_1 BV_{j,t} + \alpha_2 NI_{j,t} + \alpha_3 IR_{j,t} + \alpha_4 DTEA_{j,t} + \alpha_5 DTIA_{j,t} + \alpha_6 NDTA_{j,t} + \alpha_7 NDTL_{j,t} \\ &+ IRxNDTEA + IRxNDTAL + FE + \varepsilon \end{aligned}$$

[2]

where:

DTEA<sub>i,t</sub>: the deferred tax expense deflated by total assets

DTIA<sub>i,t</sub>: the negative deferred tax expense (deferred tax income) deflated by total assets

NDTA<sub>i,t</sub>: the net deferred tax asset deflated by total assets

NDTL<sub>i,t</sub>: the net deferred tax liability deflated by total assets

IRxNDTE: interaction term to determine moderating effect on net deferred tax expense deflated by total assets

IRxNDTAL: interaction term to determine moderating effect on net deferred tax asset or liability deflated by total assets

And the other variables as explained above

Onali et al. (2017) and Baltagi et al. (2003) advocated for the use of the Hausman test before choosing the regression model. Random fixed effects panel data regression was rejected after the Hausmann test; therefore, the fixed effects model is adopted. To improve the above results, the Seemingly Unrelated Regression Model will be adopted. The latter will also serve as a robustness test, to dissipate any concerns about the independent variables potentially unrelated to the dependent variable.

### Results

The table below presents the descriptive statistics of the dependent as well as the independent variables. The data has been gathered from Refinitiv Eikon (successor of Asset4) from a sample of UK listed companies. UK companies were chosen for this study owing to their documented rigorous regulatory frameworks, which implement extensive disclosure mandates and guarantee the accessibility of both high-quality financial and non-financial data. Moreover, the selection of UK companies was influenced by the prominence of the country's stock exchange, making it an ideal setting for comprehensive analysis. The study focused on public companies over an ten-year period from 2013 to 2022. After excluding less than 5 firm-year observations, the number of firm observations is 3,865. This is in line with Tlili et al. (2019) who used a minimum of 6 years for their study. The average firm observations for this study for the 11 years for each firm was 9.7 observations per firm, and the number of firms studied amounted to 399 companies.

The descriptive statistics of the sample include market value with an average of EUR 4.32 billion market capitalisation, with an average book value of equity around 1.85 billion. The average profit was around the 200 million. The IR score had a mean of 34.45 and the net deferred tax expense (average of positive and negative) was 4 million and if calculated absolutely without negative sign, then it was around 18 million and the net deferred tax liabilities was 157 million before even considering its absolute amount. Thus, since the amounts of deferred taxes are significant, it has the possibility to influence the profitability and therefore net assets. After the signed natural logarithmic or deflation by total assets has been carried out, the independent variables have been assessed using the Pearson Correlation test as presented in Table 1.

**Table 1: Pairwise Pearson correlations** 

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(1) BV <sub>j,t</sub>	1.000								
$(2) NI_{j,t}$	0.153	1.000							
(3) IR <sub>i,t</sub>	0.479	0.065	1.000						
(4) DTEA <sub>i,t</sub>	0.040	0.154	0.006	1.000					
(5) DTIA <sub>i,t</sub>	-0.033	0.040	0.021	0.294	1.000				
(6) DTAA <sub>i,t</sub>	-0.069	0.030	0.014	-0.019	0.069	1.000			
(7) DTLA <sub>i,t</sub>	0.073	-0.021	0.056	-0.112	0.266	-0.017	1.000		
(8) IRxNDTEA <sub>i,t</sub>	-0.005	0.147	-0.056	0.494	0.516	0.011	0.115	1.000	
(9) IRxNDTALA <sub>j,t</sub>	-0.252	-0.046	-0.457	0.029	-0.226	0.053	-0.662	-0.123	1.000

Source: Author's Research

As expected, the Pearson correlation between the book value of equity and net income is positive. The larger the company's capital base, it is expected that the listed company is profitable. This is in line with several studies and the profitability and growth concepts (Landau et al., 2020). The highest correlation coefficient was -0.66 between deferred tax liabilities and the moderating effect involving deferred tax liabilities. However this is not a cause of concern since multicollinearity is concerning when the coefficient becomes greater than 0.8 or 0.9 (Vitolla et al., 2020). Another statistical test which is of use is the variance inflation factor (VIF).

**Table 2: Variance Inflation Factors (VIF)** 

Variable	VIF	1/VIF
$IRxNDTLA_{j,t} \\$	2.66	0.38
$\mathrm{DTLA}_{\mathrm{j},\mathrm{t}}$	2.18	0.46
$IR_{j,t}$	1.80	0.56
$IRxNDTEA_{j,t} \\$	1.70	0.59
$\mathrm{DTIA}_{\mathrm{j},\mathrm{t}}$	1.49	0.67
$\mathrm{DTEA}_{\mathrm{j},\mathrm{t}}$	1.41	0.71
$\mathrm{BVit}_{\mathrm{j},\mathrm{t}}$	1.35	0.74
$NIit_{j,t}$	1.06	0.94
$\mathrm{DTAA}_{\mathrm{j},\mathrm{t}}$	1.02	0.98
Mean VIF	1.63	

Source: Author's Research

According to commonly used rules of thumb, there was no significant evidence of multicollinearity among the variables since the variance inflation factors (VIF) did not exceed 10 which suggest that the independent variables in the regression model are not highly correlated with each other, which strengthens the reliability of the estimated coefficients and their interpretation (Anderson & Gupta, 2009; Landau et al., 2020). It is to be noted that adding individual interaction terms for each deferred tax variable increased the VIF due to repetitions. However, since the net deferred tax expense interaction and the net deferred tax liabilities interaction terms theoretically represent both elements, thus it is not necessary to include individual interaction terms. The next step after testing for multicollinearity is the regressions of the independent variables to the dependent variable. Table 3 presents the results of such regressions based on two robust regression techniques, both of which can be applicable to the research objectives and hypotheses.

**Table 3: Regression Results output** 

	Fixed Effects Regression	Robustness Test Seemingly Unrelated Regressions
	$MV_{j,t}$	$\mathrm{MV}_{\mathrm{j,t}}$
$\mathrm{BV}_{\mathrm{j},\mathrm{t}}$	0.836***	0.796***
	(86.47)	(82.51)
$\mathrm{NI}_{\mathrm{j,t}}$	0.0142***	0.0164***
	(12.53)	(13.82)
$IR_{j,t}$	0.00513***	0.00261***
	(8.08)	(4.08)
$DTEA_{j,t}$	-21.66***	-38.05***
	(-3.74)	(-6.23)
$DTIA_{j,t}$	(1.81)	(7.07)
	(-0.53)	(-1.84)
$\mathrm{DTAA}_{\mathrm{j,t}}$	30.94***	38.00***
	(3.92)	(4.44)
$DTLA_{j,t}$	-4.670***	-4.487***
	(-6.64)	(-6.06)
IRxNDTEA <sub>j,t</sub>	0.07	0.08
	(1.63)	(1.76)
IRxNDTLA <sub>j,t</sub>	-0.0447***	-0.0412**
	(-3.60)	(-3.01)
_cons	3.707***	4.537***
	(20.03)	(24.67)
N	3,865.00	3,865.00
F	1,386.60	-
p-value	0.00	0.00
Akaike Information Criterion	9,505.20	10,102.30
$\mathbb{R}^2$	0.77	0.73
$R^2_{adj}$	0.77	-
Industry Fixed Effects	Yes	-
Year Fixed Effects	Yes	-

Source: Author's Research

The book value of equity based on the Fixed effects model and the seemingly unrelated regression model have significant positive coefficients of around 0.8, which means that size or net assets are positively viewed by the market. Moreover, profitability registers positive coefficients of approximately 0.014 or 0.016, indicating a positive inclination towards profitability in investors' decision-making processes concerning businesses.

Hypothesis 1 is supported by the findings, as evidenced by the positive and statistically significant coefficient associated with the Integrated Thinking and Reporting score. The results indicate that an increase in the Integrated Thinking and Reporting score leads to a corresponding rise in market value, with the coefficient estimated to be 0.005 or 0.0026.

Regarding hypothesis 2, the deferred tax expense is valued negatively by the market. Since the variable is deflated by total assets, the coefficient might seem large but it is to be seen comparatively with other aspects. The coefficient is -21.66 for deferred tax expense and is significant whereas for deferred tax income is not. The stock exchange does not assign a significant positive value to deferred tax income; rather, it tends to attribute a negative valuation to deferred tax expense.

Both net deferred tax assets and liabilities are viewed significantly by the market concerning hypothesis 3. The market negatively views deferred tax liabilities whereas investors view deferred tax assets much more positively than they negatively view deferred tax liabilities. Also, investors believe that integrated thinking and reporting tend to decrease the negative impact of net deferred tax liabilities. However, there is no observable moderating effect of integrated thinking and reporting on net deferred tax expenses as perceived by the market.

#### **Discussion of the Results**

The first hypothesis tests the adoption of an integrated reporting framework. The IR score ranged from 0 (not adopting the Integrated Thinking and Reporting concept since it is voluntary) to 99, which subjected each company to a uniform evaluation. Given that integrated reporting cannot be evaluated in isolation, the study also examined the value relevance of the book value of equity and net income as control variables. This approach acknowledges the interplay between integrated reporting and these traditional financial metrics, providing a comprehensive assessment of their combined impact on market valuation. Consequently, the findings indicate that Book Value (BV), Net Income (NI), and Integrated Reporting (IR) serve as relevant and significant indicators influencing the market value of a listed firm. This observation aligns with previous research, suggesting that investors place significance on Integrated thinking and reporting, resonating with the commitment to short-, medium-, and long-term value creation (Dey, 2020; Sun et al., 2022).

The second hypothesis tests the value relevance of deferred tax expenses and deferred tax income. From the results, the market finds informational values mostly from deferred tax expenses only. The market is not so much concerned with the effects when there is deferred tax income. This shows that investors are mostly interested in the short-term value erosion process as presented in the update of the IR framework in 2021 (IIRC, 2021). The market behaviour could also be explained through the signalling theory whereby relevant information has the ability to decrease information asymmetry and thus the market is aware of the deferred tax expenses increases could mean that there would be scrutiny of other parts of deferred tax components (Smith & Pennathur, 2017).

The third hypothesis tests for the value relevance of deferred tax assets and liabilities. From the results, the market values significantly deferred tax assets and deferred tax liabilities. The stock exchange associates deferred tax assets with a positive image of the company, perhaps relating to the future earning potential from the definition of an asset. This result is consistent with Chang et al. (2009) but contrary to Guia and Dantas (2020). Due to the difference in the coefficients, investors may also be less concerned with net deferred tax liabilities but more interested in net deferred tax assets due to cash flow implications and future tax planning opportunities (Flagmeier, 2022; Hamilton, 2018).

The moderating effect of IR on net deferred tax expenses is not present. This suggests that from the perspective of the market, IR does not, in the short term, help with decreasing deferred tax expenses. This is due to a planning from management which could range from medium to long term. Thus, it would be more appropriate if IR were significant in deferred tax assets or liabilities moderation. Indeed, there was a significant effect of IR on net deferred tax liabilities from the point of view of the market, that investor believe in the integrated thinking and reporting process to mitigate risk of manipulation of deferred taxes. These findings align partly with the previous research by Sutopo et al. (2021) on the moderating effects of large deferred tax assets. In line with the recommended prudential approach by Gelman & Stern (2006), the paper interprets these results cautiously, considering the potential implications for the value relevance of the integrated reporting framework score interaction with the deferred tax items. As such, only integrated reporting score moderates how the market values net deferred tax liabilities which are one important component of long-term book-tax differences. This is in consistent with the benefits of integrated reporting

pressing management to think about the creation of long-term value of the business, in which short-term deferred tax expenses may not have a major role.

#### Conclusion

The paper investigates the value relevance of integrated reporting in voluntary settings in the UK. This study is important in multifaceted ways. It, subsequently, addresses two important aspects that have received limited attention in the literature. Firstly, the paper investigates the value relevance impact of Integrated Thinking and Reporting. Second, the paper explores the value relevance of the distinct components of deferred taxes. Third, the paper assesses the potential moderating effects of the integrated reporting score on the value relevance of deferred taxation items. To the best of the author's knowledge, these relationships have not been studied before.

This research utilises a sample of UK-listed companies, covering the period from 2013 to 2022, and includes financial data from 399 listed companies and 3,865 firm-year observations. To answer the research hypotheses, the paper employs a literature-driven analytical approach, utilising a panel data regression model with fixed effects to estimate the value relevance coefficients of deferred taxation and the integrated reporting framework score.

The results from the panel data regression model with fixed effects and the seemingly unrelated regression reveal a significant positive relationship between the integrated reporting framework score and firm value. Additionally, the analysis indicates a negative coefficient for deferred taxation expense and deferred tax liabilities, indicating its detrimental impact on firm value. Investors may view high deferred tax expenses in the statement of profit and loss adversely due to its ability to decrease profit and the deferred tax liability as loss of future cash flows. In addition, there is a positive value relevance of deferred tax assets, as a way for investors to signal their appreciation for future cash inflows. Furthermore, the decomposition of the panel regression model suggests no moderating interaction effect of IR on the value relevance of deferred tax expenses. However, investors view integrated thinking and reporting as moderating the effect of the negative value relevance of net deferred tax liabilities in the long run.

This study holds significant implications for multiple stakeholders. Policymakers and standard-setters can derive insights into the value relevance of integrated reporting within voluntary frameworks, informing their decisions regarding its implementation. Practitioners are alerted to consider the impact of deferred taxation on firm value and the significance of integrated reporting. Additionally, avenues for further exploration into contextual factors' moderating effects on the integrated reporting-firm value relationship are opened.

Consequently, this paper contributes to the literature by scrutinising the value relevance of integrated reporting, with a focus on deferred taxation and the updated IR framework. These findings deepen the comprehension of the dynamic relationship among integrated reporting, deferred taxation, and firm value.

Although this paper contributes valuable insights into the value relevance of integrated reporting within voluntary frameworks in the UK, it is crucial to recognise certain limitations. The analysis is confined to a singular country, potentially constraining the applicability of the findings to other geographic areas. Subsequent research endeavours could enhance the scope by encompassing a more diverse array of countries and regions. This broader approach would facilitate a more comprehensive comprehension of the value relevance of integrated reporting across varied contexts.

#### References

**Abhayawansa, S., Elijido-Ten, E. & Dumay, J. (2018).** A Practice Theoretical Analysis of the Irrelevance of Integrated Reporting to Mainstream Sell-side Analysts. *Accounting & Finance*, 59 (3) May, pp. 1615–1647.

Amir, E., Kirschenheiter, M. & Willard, K. (2001). The Aggregation and Valuation of Deferred Taxes. *Review of Accounting Studies*, 6 (2) June, pp. 275–297.

**Anderson, A. & Gupta, P. P. (2009).** A Cross-Country Comparison of Corporate Governance and Firm Performance: Do Financial Structure and the Legal System Matter? *Journal of Contemporary Accounting & Economics*, 5 (2) December, pp. 61–79.

- Atkins, J. & Maroun, W. (2015). Integrated Reporting in South Africa in 2012. *Meditari Accountancy Research*, 23 (2) August, pp. 197–221.
- **Baboukardos**, **D. & Rimmel**, **G.** (2016). Value Relevance of Accounting Information under an Integrated Reporting Approach: A Research Note. *Journal of Accounting and Public Policy*, 35 (4), pp. 437–452.
- **Baltagi, B. H., Bresson, G. & Pirotte, A. (2003).** Fixed Effects, Random Effects or Hausman–Taylor?: A Pretest Estimator. *Economics letters*, 79 (3), pp. 361–369.
- Barth, M. E., Cahan, S. F., Chen, L. & Venter, E. R. (2017). The Economic Consequences Associated with Integrated Report Quality: Capital Market and Real Effects. *Accounting, Organizations and Society*, 62, pp. 43–64.
- Chang, C., Herbohn, K. & Tutticci, I. (2009). Market's Perception of Deferred Tax Accruals. *Accounting & Finance*, 49 (4), pp. 645–673.
- Cooke, T., Omura, T. & Willett, R. (2009). Consistency, Value Relevance and Sufficiency of Book for Market Values in Five Japanese Conglomerates over the Period 1950–2004. *Abacus*, 45 (1), pp. 88–123.
- Cortesi, A. & Vena, L. (2019). Disclosure Quality under Integrated Reporting: A Value Relevance Approach. *Journal of Cleaner Production*, 220 May, pp. 745–755.
- Corvino, A., Doni, F. & Bianchi Martini, S. (2020). Corporate Governance, Integrated Reporting and Environmental Disclosure: Evidence from the South African Context. *Sustainability*, 12 (12) June, p. 4820.
- **Dey, P. K. (2020).** Value Relevance of Integrated Reporting: A Study of the Bangladesh Banking Sector. *International Journal of Disclosure and Governance*, 17 (4) July, pp. 195–207.
- **Dimes, R. A. J. (2023).** *Integrated Thinking: Concept, Measurement and Economic Benefits* [Online] [PhD Thesis]. ResearchSpace@ Auckland. Available from: <a href="https://researchspace.auckland.ac.nz/handle/2292/64889">https://researchspace.auckland.ac.nz/handle/2292/64889</a> [Accessed 5 December 2023].
- **Dumay**, **J.** (2016). A Critical Reflection on the Future of Intellectual Capital: From Reporting to Disclosure. *Journal of Intellectual Capital*, 17 (1), pp. 168–184.
- Fernando, K., Dharmawati, R., Sriani, D., Shauki, E. R. & Diyanty, V. (2018). Does Integrated Reporting Approach Enhance the Value Relevance of Accounting Information?: Evidence from Asian Firms [Online]. In: *Proceedings of the 6th International Accounting Conference (IAC 2017)*, 2018. Atlantis Press. Available from: <a href="http://dx.doi.org/10.2991/IAC-17.2018.20">http://dx.doi.org/10.2991/IAC-17.2018.20</a>>.
- **Flagmeier, V. (2022).** The Information Content of Deferred Taxes under IFRS. *European Accounting Review*, 31 (2), pp. 495–518.
- **Flower, J. (2020).** The IIRC's Journey. *The Routledge Handbook of Integrated Reporting*, May, pp. 124–139.
- **Gelman, A. & Stern, H. (2006).** The Difference between "Significant" and "Not Significant" Is Not Itself Statistically Significant. *The American Statistician*, 60 (4), pp. 328–331.
- Görlitz, A. & Dobler, M. (2021). Financial Accounting for Deferred Taxes: A Systematic Review of Empirical Evidence. *Management Review Quarterly*, pp. 1–53.
- Guia, L. D. & Dantas, J. A. (2020). Value Relevance of Deferred Tax Assets in the Brazilian Banking Industry. *Revista Contabilidade & Finanças*, 31 (82) April, pp. 33–49.
- Haleem, A., Ahamed, S. T. & Kumarasing, W. S. L. (2020). Investigation on the Value Relevance of Integrated Reporting and Organizational Capital: Evidence From Sri Lanka. *International Journal of Financial Research*, 11 (6) December, p. 372.

- **Hamilton**, **R.** (2018). New Evidence on Investors' Valuation of Deferred Tax Liabilities. *SSRN Electronic Journal* [Online]. Available from: <a href="http://dx.doi.org/10.2139/ssrn.3304846">http://dx.doi.org/10.2139/ssrn.3304846</a>.
- Hanlon, D., Navissi, F. & Soepriyanto, G. (2014). The Value Relevance of Deferred Tax Attributed to Asset Revaluations. *Journal of Contemporary Accounting & Economics*, 10 (2), pp. 87–99.
- IIRC (2013). THE INTERNATIONAL <IR> FRAMEWORK [Online]. Available from: <a href="https://www.integratedreporting.org/wp-content/uploads/2013/12/13-12-08-THE-INTERNATIONAL-IR-FRAMEWORK-2-1.pdf">https://www.integratedreporting.org/wp-content/uploads/2013/12/13-12-08-THE-INTERNATIONAL-IR-FRAMEWORK-2-1.pdf</a> [Accessed 16 May 2023].
- IIRC (2021). International Integrated Reporting Framework [Online]. Available from: <a href="https://www.integratedreporting.org/wp-content/uploads/2021/01/InternationalIntegratedReportingFramework.pdf">https://www.integratedreporting.org/wp-content/uploads/2021/01/InternationalIntegratedReportingFramework.pdf</a> [Accessed 16 May 2023].
- Landau, A., Rochell, J., Klein, C. & Zwergel, B. (2020). Integrated Reporting of Environmental, Social, and Governance and Financial Data: Does the Market Value Integrated Reports? *Business Strategy and the Environment*, 29 (4), pp. 1750–1763.
- **Laux, R. C. (2013).** The Association between Deferred Tax Assets and Liabilities and Future Tax Payments. *The Accounting Review*, 88 (4), pp. 1357–1383.
- **Lopez, J. A., Rose, A. K. & Spiegel, M. M. (2020).** Why Have Negative Nominal Interest Rates Had Such a Small Effect on Bank Performance? Cross Country Evidence. *European Economic Review*, 124, p. 103402.
- **MacCarthy**, **J.** (2021). Effect of Earnings Management and Deferred Tax on Tax Avoidance: Evidence Using Modified Jones Model Algorithm. *Corporate Ownership and Control*, 19 (1, special issue), p. 272.
- **Machdar, N. M. (2022).** Does Tax Avoidance, Deferred Tax Expenses and Deferred Tax Liabilities Affect Real Earnings Management? Evidence from Indonesia. *Institutions and Economies*, pp. 117–148.
- Mear, K., Bradbury, M. & Hooks, J. (2020). Is the Balance Sheet Method of Deferred Tax Informative? *Pacific Accounting Review*.
- **Obeng, V. A., Ahmed, K. & Miglani, S. (2020).** Integrated Reporting and Earnings Quality: The Moderating Effect of Agency Costs. *Pacific-Basin Finance Journal*, 60 April, p. 101285.
- **Ohlson, J. A.** (1995). Earnings, Book Values, and Dividends in Equity Valuation. *Contemporary Accounting Research*, 11 (2), pp. 661–687.
- **Onali, E., Ginesti, G. & Vasilakis, C. (2017).** How Should We Estimate Value-Relevance Models? Insights from European Data. *The British Accounting Review*, 49 (5) September, pp. 460–473.
- Rahman, M., Rasid, S. Z. A. & Basiruddin, R. (2020). Moderating Effect of Earnings Management in the Relationship between Sustainability Reporting Initiatives and Value Relevance. *Indonesian Journal of Sustainability Accounting and Management*, 4 (2) December, p. 266.
- **Roychowdhury, S. & Watts, R. L. (2007).** Asymmetric Timeliness of Earnings, Market-to-Book and Conservatism in Financial Reporting. *Journal of Accounting and Economics*, 44 (1–2), pp. 2–31.
- Siimon, Õ. R. & Lukason, O. (2021). A Decision Support System for Corporate Tax Arrears Prediction. Sustainability, 13 (15), p. 8363.
- **Slack, R. & Tsalavoutas, I. (2018).** Integrated Reporting Decision Usefulness: Mainstream Equity Market Views. *Accounting Forum*, 42 (2) June, pp. 184–198.
- Smith, D. D. & Pennathur, A. K. (2017). Signaling Versus Free Cash Flow Theory: What Does Earnings Management Reveal About Dividend Initiation?: *Journal of Accounting, Auditing & Finance*, 34 (2) August, pp. 284–308.

- **Soliman, W. S. M. K. & Ali, K. M. (2020).** An Investigation of the Value Relevance of Deferred Tax: The Mediating Effect of Earnings Management. *Investment Management and Financial Innovations*, 17 (1), pp. 317–328.
- Soriya, S. & Rastogi, P. (2021). A Systematic Literature Review on Integrated Reporting from 2011 to 2020. *Journal of Financial Reporting and Accounting*, 20 (3/4), pp. 558–579.
- Sun, Y., Qiao, X., An, Y., Fang, Q. & Wu, N. (2022). Does Multiple Capitals Disclosure Affect the Capital Market? An Empirical Analysis in an Integrated Reporting Perspective. *Frontiers in psychology*, 13 February, pp. 837209–837209.
- **Sutopo**, B., Adiati, A. K. & Siddi, P. (2021). Earnings and Firm Value: The Moderating Impact of Large Deferred Taxes and Large Accruals in Indonesia. *Business: Theory and Practice*, 22 (2), pp. 241–248.
- **Thomson Reuters (2023).** Thomson Reuters Refinitiv Eikon [Online]. Thomson Reuters Refinitiv. Available from: <a href="https://www.refinitiv.com/en/financial-data/indices/trbc-business-classification">https://www.refinitiv.com/en/financial-data/indices/trbc-business-classification</a>.
- **Tlili, M., Ben Othman, H. & Hussainey, K. (2019).** Does Integrated Reporting Enhance the Value Relevance of Organizational Capital? Evidence from the South African Context. *Journal of Intellectual Capital*, 20 (5), pp. 642–661.
- **Velte, P. (2022)**. Archival Research on Integrated Reporting: A Systematic Review of Main Drivers and the Impact of Integrated Reporting on Firm Value. *Journal of Management and Governance*, 26 (3), pp. 997–1061.
- Vitolla, F., Raimo, N. & Rubino, M. (2019). Appreciations, Criticisms, Determinants, and Effects of Integrated Reporting: A Systematic Literature Review. *Corporate Social Responsibility and Environmental Management*, 26 (2) February, pp. 518–528.
- Vitolla, F., Raimo, N., Rubino, M. & Garzoni, A. (2020). The Determinants of Integrated Reporting Quality in Financial Institutions. *Corporate Governance: The International Journal of Business in Society*, 20 (3) February, pp. 429–444.
- Wong, J., Wong, N. & Naiker, V. (2011). Comprehensive versus Partial Deferred Tax Liabilities and Equity Market Values. *Accounting & Finance*, 51 (4) December, pp. 1087–1106.
- **Zhou, S., Simnett, R. & Green, W. (2017).** Does Integrated Reporting Matter to the Capital Market? *Abacus*, 53 (1), pp. 94–132.