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Business Innovation and Development in **Emerging Economies**

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ABSTRACT

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Business Innovation driven by the advancement of technology has dramatically changed the business landscape over recent years, not only in advanced countries but also in emerging markets. It is expected that business innovation could help achieve economic inclusion, which has been a global initiative over the last decade, creating opportunities for all people to benefit from the economic development. These proceedings provide an outlet for discussing the importance of business innovation, especially in emerging countries in helping to reach inclusive economies. The papers cover the subject areas management, accounting, finance, economics and social sciences.

TABLE OF CONTENTS

Part | 1 pages

Auditing

Chapter | 12 pages

Audit firm selection and voluntary audit firm rotation: Which factors

By Sulhani, N.K.E. Putri

Abstract v

Analysis of the effect of public accounting firm size on audit fee in

Indonesia

By Elwimina Nurjanah, Vera Diyanty

Abstract v

Chapter | 9 pages

The effects of gender, task complexity, obedience pressure, auditor experience, and knowledge audit on audit judgment

By Muammar Khaddafi, St. Dwiarso Utomo, Zaky Machmuddah, Imang

Dapit Pamungkas, Feby Milanie

Abstract ~

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The moderating effect of managerial ownership and institutional ownership on auditor opinion, and auditor switching for fraudulent

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By Z. Machmuddah, St. Dwiarso Utomo, I.D. Pamungkas	
Abstract ✓	
Chapter 13 pages	
The impact of debt covenants violation on audit fee	
By Jayanti Kania, Fitriany	GET ACCESS
Abstract ✓	
t 1 pages	
nking	
Chapter 7 pages	
Accounting and capital measurement of banking risk: Evidence from	
the Indonesian banking industry 2011–2015	GET ACCESS
By Wilson Ruben Lumbantobing	
Abstract ✓	
Charles 140 areas	
Chapter 18 pages The effect of financial ratios to profitability bank BUKU 3 listed on	
Indonesia Stock Exchange	GET ACCESS
By Reny Fitriana Kaban, Puji Hadiyati, Oktanisa Rahmawati	
Abstract ✓	
Chapter 6 pages	
The impact of variables of macroeconomic and bank-specifics on non-	
performing loan in banking industry in Indonesia	GET ACCESS
By Mahrus Lutfi Adi Kurniawan, Siti Aisyah Tri Rahayu, Agustinus Suryantoro	
Abstract ✓	
ort 1 pages usiness strategy	
Chapter 6 pages	
Greengrocers, fish sellers, butchers, and chicken sellers at traditional markets: Model of business governance and business behavior	GET ACCESS
By T.A. Lubis, Firmansyah, R. Savitri	
Abstract V	
Abstract V	
rt 1 pages orporate finance	
•	
Chapter 5 pages	
Bankruptcy prediction of manufacturing companies using Altman and	
Ohlson model	GET ACCESS
By Amanda Meisa Putri, Imo Gandakusuma	
Abstract ✓	
Chapter 11 pages	
Valuation of stock using the discounted cash flow model and Ministry	
of Finance regulation: Study of PT Indosat Tbk	GET ACCESS
By Astried Minang Nathalia, Zuliani Dalimunthe	
Abstract ✓	
Chapter 7 pages	
Do corporate governance, firm characteristics, and financial ratio affect	
firm performance?	GET ACCESS
By Evita Silvy Christina	
Abstract ✓	
Chapter 10 annual	
Chapter 10 pages The effect of managerial ownership on liquidity, agency cost and	
ne effect of managerial ownership on liquidity, agency cost and	

Indonesia	GET ACCESS
By I Nyoman Nugraha Ardana Putra, Siti Sofiyah Abdul Mannan, Tatang	
Ary Gumanti, Nengah Sukendri	
Abstract ✓	
Chapter 14 pages	
Comparing properties of net income and total comprehensive income:	
A study on manufacturing industry in Indonesia	GET ACCESS
By Retno Yulianti, Ari Kuncara Widagdo, Doddy Setiawan, Bambang	
Sutopo	
Abstract ∨	
Chapter 10 pages	
Firm characteristics, financial leverage, corporate governance, and earnings management in Indonesia	GET ACCESS
By Y.K. Susanto, V. Agness	GET ACCESS
Abstract ✓	
Chapter 6 pages	
Profile analysis of the importance of equity financing decisions on	
Package IPO (PIPO) and Shares-only IPO (SIPO) in Indonesia	GET ACCESS
By C. Dhevi, Y. Soesetio, D.Q. Octavio	
Abstract V	
Chapter 144 pages	
Chapter 11 pages	
Factors influencing income smoothing in manufacturing companies listed on the Indonesia Stock Exchange	GET ACCESS
By B.K.D. Cahyo, N. Alexander	
Abstract ✓	
Abstract V	
evelopment Chapter 8 pages	
Model of Human Resource Development (HRD) in the context of Indonesian food security	GET ACCESS
	GET ACCESS
Indonesian food security	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries?	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries?	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship Chapter 6 pages	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship	
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages Itrepreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages Itrepreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages trepreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta Abstract Abstract	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages Intrapreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta Abstract rt 1 pages annial accounting	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages Intrapreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta Abstract rt 1 pages ancial accounting Chapter 10 pages	GET ACCESS
Indonesian food security By M. Ali, J. Siswanto, Sardiyo, F.C. Utomo Abstract Chapter 8 pages Does the tourism sector effectively stimulate economic growth in ASEAN member countries? By A.A.A. Islam, L.I. Nugroho Abstract rt 1 pages intrapreneurship Chapter 6 pages Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia By Elyta Abstract rt 1 pages nancial accounting	GET ACCESS

Information content of forward-looking disclosure	
By E. Gantyowati, Payamta, J. Winarna, A. Wijayanto	GET ACCESS
Abstract V	
Chapter 10 pages	
Sustainability report, financial performance and investor reaction: A partial least square perspective of Indonesian public companies	GET ACCESS
By I. Maulidya, I. Ulum, T. Nur, E.D. Wahyuni	
Abstract V	
Chapter 10 pages	
Corporate governance supervision aspect and corporate characteristics on environment disclosure (case study in manufacturing companies in IDX 2012–2016 period)	GET ACCESS
By R. Mustafa Zahri, Muthmainah	
Abstract V	
rt 1 pages m & Ob	
Chanter 19 pages	
Chapter 19 pages A study of employee engagement at Bisnis Indonesia	
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rt 1 pages novation and strategic management	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises	GET ACCESS
novation and strategic management Chapter 6 pages	GET ACCESS
Chapter 6 pages Redesigning business model on small and medium-sized enterprises	GET ACCESS
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Faisal, Sisdjiatmo K. Widhaningrat	GET ACCESS
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Faisal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Falsal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation- supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs)	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Faisal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation- supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) By Sudarwati, A.I. Setiawan	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Falsal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) By Sudarwati, A.I. Setiawan Abstract rt 10 pages	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Falsal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) By Sudarwati, A.I. Setiawan Abstract rt 10 pages ellectual capital Chapter 8 pages Intellectual capital disclosure and post-issue financial performance	GET ACCESS
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Falsal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) By Sudarwati, A.I. Setiawan Abstract rt 10 pages ellectual capital Chapter 8 pages Intellectual capital disclosure and post-issue financial performance By Wahyu Widarjo, Rahmawati, Ari Kuncara Widagdo, Eko Arief	
Chapter 6 pages Redesigning business model on small and medium-sized enterprises By Falsal, Sisdjiatmo K. Widhaningrat Abstract Chapter 12 pages Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) By Sudarwati, A.I. Setiawan Abstract rt 10 pages ellectual capital Chapter 8 pages Intellectual capital disclosure and post-issue financial performance	GET ACCESS

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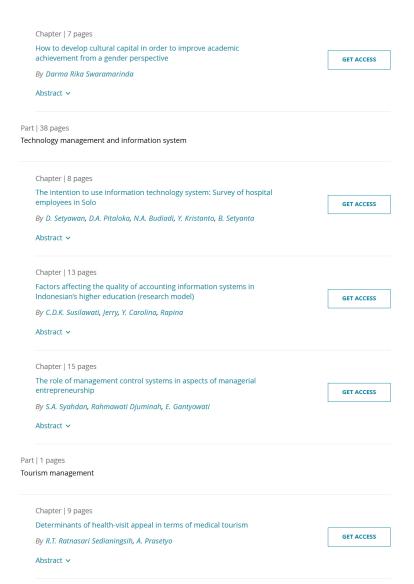
What do you want from me? Demand for skilled labor in the global value chain: The case of Indonesia's apparel industry	GET ACCESS
By M.A.P. Prabowo, P. Wicaksono, T. Bakhtiar	GET ACCESS
Abstract ×	
Chapter 10 pages	
Fair treatment in employment of global production networks: Lessons	
from the Indonesian footwear industry	GET ACCESS
By Rieka Evy Mulyanti, Padang Wicaksono, Toni Bakhtiar Abstract ∨	
Chapter 14 pages	
Decent work in global apparel production networks: Evidences from	
Indonesia	GET ACCESS
By Fitria Nur Diana, Padang Wicaksono, Toni Bakhtiar	
Abstract ✓	
Chapter 11 pages	
The implication of loan-to-value ratio on credit housing demand in Indonesia	GET ACCESS
By L.R. Fauzia, S.A.T. Rahayu, A.A. Nugroho	
Abstract ✓	
Chapter 22 pages	
Globalization in automotive industry: Can Indonesia catch-up with Thailand?	
Thailand? By Agung Romy Hasiholan, Kiki Verico	GET ACCESS
Abstract >	
Chapter 7 pages	
Panel data regression and support vector regression for Indonesian private external debt analysis	GET ACCESS
By Janice Diani, Zuherman Rustam	SE. ACCES
Abstract ✓	
Chapter 17 pages	
Chapter 7 pages Determinant factors of external debt in ASEAN-8, 2005–2016	
By A. Ariani, M. Cahyadin	GET ACCESS
Abstract ✓	
1 pages keting	
Chanter I 12 nages	
Chapter 12 pages A study of the role of altruism in the process of individual behavior in	
donating blood	GET ACCESS
By B. Haryanto, P. Suryanadi, B. Setyanta, E. Cahyono	
Abstract ∨	
Chapter 7 pages	
Self-monitoring in impulse buying: Effect of religiosity	GET ACCESS
By W. Maryati, S. Hartini, G.C. Premananto	GET ACCESS
Abstract ∨	
Chapter 10 pages	
Effect of religiosity and reference groups on intention to use Sharia bank products: Mediation role of cognitive and affective attitudes	GET ACCESS
By Muthmainah, M. Cholil	GET ACCESS
by Machinanian, M. Chom	

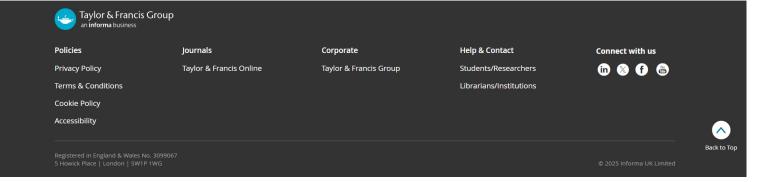
Identifying antecedents of loyalty to public transportation: A case study

of the online taxi motorbike service GrabBike	GET ACCESS
By Vita Briliana, Vita Briliana, Adelpho Billy Adkatin	
Abstract ✓	
Chapter 9 pages	
Celebgram endorsement: The influences of attractiveness, power, and credibility towards brand image and purchase intention	GET ACCESS
By Christian Haposan Pangaribuan, Alex Maulana	GET ACCESS
Abstract V	
Andree -	
Chapter 23 pages	
The factors affecting customer satisfaction, loyalty, and word of mouth towards online shopping for millennial generation in Jakarta	GET ACCESS
By Muhammad Gunawan Alif, Christian Haposan Pangaribuan, Novi	
Retno Wulandari	
Abstract ✓	
Chapter 12 pages	
How value co-creation works in agri-food context? A future thinking for horticulture product marketing	
By Hesty Nurul Utami, Eleftherios Alamanos, Sharron Kuznesof	GET ACCESS
Abstract >	
Chapter 8 pages	
The impact of service innovativeness on self-congruity and functional congruity with motivation to innovate as moderation variable	GET ACCESS
By Kristiningsih, S. Hartini, U. Indrianawati	
Abstract >	
Training in bookkeeping and financial management for revitalization of traditional market (study case: Sukatani Market Depok, West Java) By M. Safitry, R.F. Kaban	GET ACCESS
Abstract ✓	
t 10 pages	
eration management	
Chapter 8 pages	
Freedom of parties to determine the form and content of the agreement in a contract of construction services	GET ACCESS
By Dewi Anggraeni	GET ACCESS
Abstract v	
Sharta Iddana	
Chapter 14 pages Engineering-Procurement-Construction (EPC) mega project: Analysis of	
the dominant cost factors and viable solutions	GET ACCESS
By Muhammad Andry Rezky, Arviansyah	
Abstract V	
Chapter 12 pages	
Cost inefficiency of large and medium industries in Indonesia	
By A. Riyardi, Triyono, Triyono	GET ACCESS
Abstract ✓	
Chanter 12 nages	
Chapter 12 pages Performance analysis of tinplate's main raw material procurement	
process using the SCOR (Supply Chain Operations Reference) model	GET ACCESS
By R.D. Wulandari, R.D. Kusumastuti	

Abstract 🗸

Chapter | 17 pages Offshore workover rig barge optimization in support of oil and gas well operation activity in CNOOC SES Ltd using mixed-integer programming GET ACCESS method By M. Abdillah, M.E. Harahap Abstract ∨ Chapter | 7 pages Development strategies for the sharia banking industry in Indonesia using an analytic network process method **GET ACCESS** By A.S. Rusydiana, F.F. Hasib, Lina N. Rani Abstract v Chapter | 13 pages Production allocation and scheduling at a pharmaceutical plant GET ACCESS By Citra Permata Sari, Ratih Dyah Kusumastuti Abstract ∨ Chapter | 30 pages Application of fuzzy kernel robust clustering for evaluating the internationalization success of companies GET ACCESS By Z. Rustam, F. Yaurita, M.J. Segovia-Vergas Abstract 🗸 Part | 12 pages Public sector accounting and governance Chapter | 10 pages Open government: Does local wisdom matter? (Case from East Java, Indonesia) GET ACCESS By I. Supheni, A.N. Probohudono, A.K. Widagdo Abstract 🗸 Part | 27 pages Risk management Chapter | 25 pages Corporate governance, risk, firm size, financial performance and social performance: Granger causality and path analysis GET ACCESS By Lidia Desiana, Fernando Africano, Aryanti Abstract v Chapter | 4 pages Default risk modeling of working capital loans to palm oil farmers in Nagan Raya Regency, Aceh Province, Indonesia GET ACCESS By Y. Nugroho, K.S. Maifianti Abstract v Chapter | 8 pages Comparative financial risk of conventional and Islamic bank GET ACCESS By O.S. Heningtyas, K.A. Rahayu, Payamta Abstract v Part | 1 pages Social sciences Chapter | 9 pages Social performance measurement through local culture in microfinance institutions GET ACCESS By I.P. Astawa, I.M. Sudana, N.G.N.S. Murni, I.G.N. Sanjaya Abstract ~





BUSINESS INNOVATION AND DEVELOPMENT IN EMERGING ECONOMIES



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Table of contents

Preface	X
Auditing	
Audit firm selection and voluntary audit firm rotation: Which factors matter? <i>Sulhani & N.K.E. Putri</i>	3
Analysis of the effect of public accounting firm size on audit fee in Indonesia E. Nurjanah & V. Diyanty	15
The effects of gender, task complexity, obedience pressure, auditor experience, and knowledge audit on audit judgment M. Khaddafi, St. Dwiarso Utomo, Z. Machmuddah, I.D. Pamungkas & F. Milanie	25
The moderating effect of managerial ownership and institutional ownership on auditor opinion, and auditor switching for fraudulent financial statements Z. Machmuddah, St. Dwiarso Utomo & I.D. Pamungkas	34
The impact of debt covenants violation on audit fee J. Kania & Fitriany	47
Banking	
Accounting and capital measurement of banking risk: Evidence from the Indonesian banking industry 2011–2015 W. Ruben Lumbantobing	59
The effect of financial ratios to profitability bank BUKU 3 listed on Indonesia Stock Exchange R.F. Kaban, P. Hadiyati & O. Rahmawati	66
The impact of variables of macroeconomic and bank-specifics on non-performing loan in banking industry in Indonesia <i>M.L.A. Kurniawan, S.A.T. Rahayu & A. Suryantoro</i>	84
Business strategy	
Greengrocers, fish sellers, butchers, and chicken sellers at traditional markets: Model of business governance and business behavior <i>T.A. Lubis, Firmansyah & R. Savitri</i>	93
Corporate finance	
Bankruptcy prediction of manufacturing companies using Altman and Ohlson model A.M. Putri & I. Gandakusuma	101
Valuation of stock using the discounted cash flow model and Ministry of Finance regulation: Study of PT Indosat Tbk A.M. Nathalia & Z. Dalimunthe	106

Do corporate governance, firm characteristics, and financial ratio affect firm performance? Evita & S. Christina	117
The effect of managerial ownership on liquidity, agency cost and performance of credit society banks in West Nusa Tenggara Province of Indonesia I.N.N.A. Putra, S.S.A. Mannan, T.A. Gumanti & N. Sukendri	124
Comparing properties of net income and total comprehensive income: A study on manufacturing industry in Indonesia R. Yulianti, A.K. Widagdo, D. Setiawan & B. Sutopo	134
Firm characteristics, financial leverage, corporate governance, and earnings management in Indonesia <i>Y.K. Susanto & V. Agness</i>	148
Profile analysis of the importance of equity financing decisions on Package IPO (PIPO) and Shares-only IPO (SIPO) in Indonesia C. Dhevi, Y. Soesetio & D. Q. Octavio	158
Factors influencing income smoothing in manufacturing companies listed on the Indonesia Stock Exchange <i>B.K.D. Cahyo & N. Alexander</i>	164
Development	
Model of Human Resource Development (HRD) in the context of Indonesian food security M. Ali, J. Siswanto, Sardiyo & F.C. Utomo	175
Does the tourism sector effectively stimulate economic growth in ASEAN member countries? A.A.A. Islam & L.I. Nugroho	183
Entrepreneurship	
Intrapreneurship of handwoven crafts toward economic democracy in the border area of SajinganBesar, Indonesia <i>Elyta</i>	191
Financial accounting	
Quality analysis of accounting information after adoption of International Financial Reporting Standards K.A. Rahayu, O.S. Heningtyas & Payamta	199
Financial reporting and disclosure	
Information content of forward-looking disclosure E. Gantyowati, Payamta, J. Winarna & A. Wijayanto	209
Sustainability report, financial performance and investor reaction: A partial least square perspective of Indonesian public companies I. Maulidya, I. Ulum, T. Nur & E.D. Wahyuni	217
Corporate governance supervision aspect and corporate characteristics on environment disclosure (case study in manufacturing companies in IDX 2012–2016 period) R.M. Zahri & Muthmainah	221

HRM & OB

A study of employee engagement at Bisnis Indonesia H.B. Winarko & S. Sihombing	235
Analysis of leadership and work discipline in improving the performance of employees at the general bureau, staffing and organization of the Ministry of Tourism B. Hasmanto, U. Rusilowati & L. Herawaty	254
Innovation and strategic management	
Redesigning business model on small and medium-sized enterprises Faisal & S.K. Widhaningrat	269
Exploring the empirical framework of sustainable innovation-supporting resources and their role in the control of market targets (An empirical study of Indonesian batik SMEs) Sudarwati & A.I. Setiawan	275
Intellectual capital	
Intellectual capital disclosure and post-issue financial performance W. Widarjo, Rahmawati, A.K. Widagdo & E.A. Sudaryono	289
Macro and monetary economics	
What do you want from me? Demand for skilled labor in the global value chain: The case of Indonesia's apparel industry M.A.P. Prabowo, P. Wicaksono & T. Bakhtiar	299
Fair treatment in employment of global production networks: Lessons from the Indonesian footwear industry <i>R.E. Mulyanti, P. Wicaksono & T. Bakhtiar</i>	309
Decent work in global apparel production networks: Evidences from Indonesia F.N. Diana, P. Wicaksono & T. Bakhtiar	319
The implication of loan-to-value ratio on credit housing demand in Indonesia L.R. Fauzia, S.A.T. Rahayu & A.A. Nugroho	333
Globalization in automotive industry: Can Indonesia catch-up with Thailand? A.R. Hasiholan & K. Verico	344
Panel data regression and support vector regression for Indonesian private external debt analysis J. Diani & Z. Rustam	366
Determinant factors of external debt in ASEAN-8, 2005–2016 A. Ariani & M. Cahyadin	373
Marketing	
A study of the role of altruism in the process of individual behavior in donating blood B. Haryanto, P. Suryanadi, B. Setyanta & E. Cahyono	383
Self-monitoring in impulse buying: Effect of religiosity W. Maryati, S. Hartini & G.C. Premananto	395

products: Mediation role of cognitive and affective attitudes Muthmainah & M. Cholil	402
Identifying antecedents of loyalty to public transportation: A case study of the online taxi motorbike service GrabBike <i>V. Briliana & A.B. Adkatin</i>	412
Celebgram endorsement: The influences of attractiveness, power, and credibility towards brand image and purchase intention <i>C.H. Pangaribuan & A. Maulana</i>	423
The factors affecting customer satisfaction, loyalty, and word of mouth towards online shopping for millennial generation in Jakarta M.G. Alif, C.H. Pangaribuan & N.R. Wulandari	432
How value co-creation works in agri-food context? A future thinking for horticulture product marketing H.N. Utami, E. Alamanos & S. Kuznesof	455
The impact of service innovativeness on self-congruity and functional congruity with motivation to innovate as moderation variable <i>Kristiningsih</i> , S. Hartini & U. Indrianawati	467
Micro, small and medium enterprises	
Training in bookkeeping and financial management for revitalization of traditional market (study case: Sukatani Market Depok, West Java) M. Safitry & R.F. Kaban	477
Operation management	
Freedom of parties to determine the form and content of the agreement in a contract of construction services D. Anggraeni	485
Engineering–Procurement–Construction (EPC) mega project: Analysis of the dominant cost factors and viable solutions <i>M.A. Rezky & Arviansyah</i>	493
Cost inefficiency of large and medium industries in Indonesia A. Riyardi, Triyono & Triyono	507
Performance analysis of tinplate's main raw material procurement process using the SCOR (Supply Chain Operations Reference) model R.D. Wulandari & R.D. Kusumastuti	519
Offshore workover rig barge optimization in support of oil and gas well operation activity in CNOOC SES Ltd using mixed-integer programming method M. Abdillah & M.E. Harahap	531
Development strategies for the sharia banking industry in Indonesia using an analytic network process method A.S. Rusydiana, F.F. Hasib & L.N. Rani	548
Production allocation and scheduling at a pharmaceutical plant C. P. Sari & R. D. Kusumastuti	555

Application of fuzzy kernel robust clustering for evaluating the internationalization success of companies Z. Rustam, F. Yaurita & M.J. Segovia-Vergas	568
Public sector accounting and governance	
Open government: Does local wisdom matter? (Case from East Java, Indonesia) I. Supheni, A.N. Probohudono & A.K. Widagdo	581
Risk management	
Corporate governance, risk, firm size, financial performance and social performance: Granger causality and path analysis L. Desiana, F. Africano & Aryanti	593
Default risk modeling of working capital loans to palm oil farmers in Nagan Raya Regency, Aceh Province, Indonesia Y. Nugroho & K.S. Maifianti	618
Comparative financial risk of conventional and Islamic bank O.S. Heningtyas, K.A. Rahayu & Payamta	622
Social sciences	
Social performance measurement through local culture in microfinance institutions I.P. Astawa, I.M. Sudana, N.G.N.S. Murni & I.G.N. Sanjaya	633
How to develop cultural capital in order to improve academic achievement from a gender perspective <i>D.R. Swaramarinda</i>	642
Technology management and information system	
The intention to use information technology system: Survey of hospital employees in Solo D. Setyawan, D.A. Pitaloka, N.A. Budiadi, Y. Kristanto & B. Setyanta	651
Factors affecting the quality of accounting information systems in Indonesian's higher education (research model) C.D.K. Susilawati, Jerry, Y. Carolina & Rapina	659
The role of management control systems in aspects of managerial entrepreneurship S.A. Syahdan, Rahmawati, Djuminah & E. Gantyowati	672
Tourism management	
Determinants of health-visit appeal in terms of medical tourism R.T. Ratnasari, Sedianingsih & A. Prasetyo	689
Author index	698



Preface

This publication contains a selection of papers presented at the 5th Sebelas Maret International Conference on Business, Economics and Social Sciences (SMICBES) 2018, held in Bali, Indonesia on July 17–19, 2018. This conference, with the particular theme "Business Innovation and Development in Emerging Economies", is organized by the Faculty of Economics and Business, Universitas Sebelas Maret (FEB UNS) and supported by some other institutions. SMICBES was first organized by FEB UNS in 2013 under a different name. It has been the regular event of FEB UNS since 2016.

The conference objective is to provide a forum for researchers and policymakers to exchange their views about current issues related to business, economic and social sciences and the intersection among those fields. More than 300 papers, either empirical or theoretical, were presented in this conference.

This conference and this publication were made possible by support from many people. We therefore would like to thank the Dean of FEB UNS Dr. Hunik Sri Runing Sawitri, Vice-deans, the organizing committee of the conference led by Mr. Linggar Ikhsan Nugroho, M.Ec.Dev, participants, reviewers and all supporting institutions for their valuable support to the conference.

Editors
Irwan Trinugroho
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Chapter

Factors affecting the quality of accounting information systems in Indonesian's higher education (research model)

By C.D.K. Susilawati, Jerry, Y. Carolina, Rapina

Book Business Innovation and Development in Emerging **Economies**

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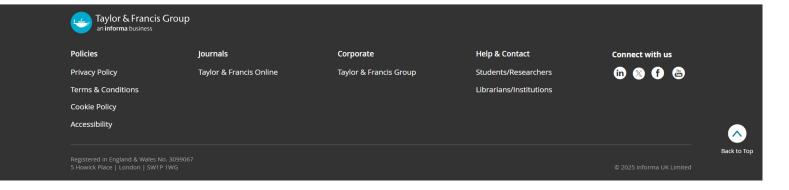
ABSTRACT

Accounting information system serves to generate accounting information that is useful in strategic decision making for companies including higher education/university. What is happening now is that many higher education with financial management experience problems because the utilization of existing resources is not optimal and income declines significantly resulting in the quality of higher education is also not optimal.

Researchers are interested to examine the factors that affect the quality of accounting information systems to produce quality accounting information in Higher Education, so that these factors can be managed properly in order to form a quality accounting information system to produce quality accounting information that is useful in the strategic decisions of Higher Education business. In this era of globalization, although a university is a type of business whose main purpose is not profitable, but Higher Education is also a business that must prioritize financial management in accounting information system quality to improve the quality of higher education in society. Factors identified by researchers include environmental uncertainty, user competence, organizational culture and information technology.

< Previous Chapter

Next Chapter >



Factors Affecting the Quality of Accounting Information Systems in Indonesia's Higher Education (Research Model)

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ABSTRACT: Accounting information system serves to generate accounting information useful in strategic decision making for companies including universities/higher education. Things that happen today many universities whose financial management has problems constraints both in Private Universities/ Higher Education and State Universities/Higher Education, so that the utilization of existing resources is not optimal and decreased income significantly resulted in the quality of college education is also affected not optimal.

Researchers interested to examine the factors that affect the quality of accounting information systems to produce quality accounting information in Higher Education, so that these factors can be managed properly so as to form a quality accounting information system to produce quality accounting information useful in strategic decisions university business. In this era of globalization, university although its nature is a type of business whose main purpose is not profitable, but Higher Education is also a business that must prioritize financial management in accounting information system quality to improve the quality of higher education in society. Factors identified by researchers include environmental uncertainty, user competence, organizational culture and information technology.

Keywords: Quality Accounting Information System, Accounting Information, Organization Variables

1. INTRODUCTION

1.1. Background and Problems of Research

In Indonesia there are various phenomena that occur related to the quality of accounting information systems especially in universities disclosed Chairman ABPPTSI Center Suyatno (2015) states that there are a number of things that make 205 foundations are problematic because of financial conflicts, facilities, and authority Related management financial delay occurs in preparing financial statements, the use of improper accounting systems, and manual reporting is not based on information technology. This can be said the quality of AIS in a number of private university foundations are still bad. Another phenomenon concerning the environmental uncertainty that influences the inflexible system is proposed by Minister of Research and Technology Nasir (2015) which states that the financial system in PTN-BH is currently lacking flexibility, such as difficulties in managing the budget given by Kemendikbud, so that the budget absorption becomes low and the system the financial statements applied by the Ministry of Finance (MoF) are complex and incompatible with dynamic academic activities, meaning that factors that have not been able to anticipate this dynamic academic activity cause the financial system in PTN-BH is less flexible.

Accounting information system is influenced by the use of information technology because through the use of information technology will improve the quality of accounting information systems (Wilkinson et al., 2000: 66-67). The same thing was put forward by Romney & Steinbart (2015: 38-39) who argued that information technology is one of the factors affecting accounting information systems. According to Thompson & Baril (2002: 2) information technology is a combination of hardware and software. The same thing was put forward by Laudon & Laudon (2013: 13) who argued that information technology consists of hardware and software that the organization needs to achieve organizational goals. According to Romney and Steinbart (2015: 31) suggests that information technology is a computer and other electronic devices used to store, retrieve, transmit and manipulate data.

A well-designed accounting information system will provide added value to the company (Romney & Steinbart, 2015: 37). So a quality accounting information system that can provide added value for the company. Qualified accounting information systems have integrated, flexible, accessibility,

procedural and rich media (Heidmann 2008: 87-91) characteristics. The quality of accounting information systems is generally flexible, efficient, accesible and timely (Stair and Reynolds, 2010: 57). A quality information system should be perceive usefulness (and when the system is used to improve performance) and perceive to use (Davis et.al., 1989: 320),. The system is designed, focused to produce a good quality information system design that is easy to use, to produce the correct function for the user, is a fast in taking data and moving between data display, reliable, safe and well integrated with other systems Bocij, 2014: 392-393). Quality systems are easy to use, easy to learn, accurate, flexible, satisfactory, integrated and customized system (Khosrow-Pour, 2011: 963).

The result of a quality information system is quality accounting information in decision making. This is expressed by Laudon & Laudon (2012: 14) that quality information systems will produce quality accounting information used by users in decision making. The same thing is expressed by Hall (2011: 172) which states the quality of accounting information is directly related to accounting information system activity. Similarly, Gelinas and Dull (2008: 17) states the information system collects data to convert it into important and quality information. Also supported by Romney and Steibart (2015: 36) which states that accounting information systems process data to generate information for decision making.

Information is organizationalized and processed data to be more meaningful and improve decision making (Romney & Steinbart., 2015: 30). The same thing expressed by Wilkinson et.al (2000: 5) states information as meaningful and useful data for those who need it. And Susanto (2013: 38) which states information is the result of data processing that gives meaning and benefits. According to Bocij (2015: 7), information is data that has been processed into more meaningful, data that has been processed for a purpose and data that has been interpreted and understood by the user. Quality accounting information has the characteristics of completeness (scope), timeliness, easy to understand (format) and accurate (Heidmann, 2008: 82-86). The same thing is expressed by Romney & Steinbart (2015: 30) useful information characteristics are relevant (improved decision making), reliable (complete from bias or error), complete, timeliness, veriable the same) and accessibility. And according to Stair et.al (2010: 6), valuable information characteristics are accessible, accurate, complete, economical, flexible, relevant, secure and simple. According to Bocij (2015: 11-13), the characteristics of quality information in terms of its contents are accurate, relevant, complete, concise and scope, and in terms of form is clear, detailed, appropriate and presented in the correct form. According to Gelinas and Dull (2008: 21), effective information is easy to understand, relevant, timely, predictive value, feedback value, verifiability and neutrality.

Rahayu (2012) found that the quality of data and quality of accounting information system affect the quality of accounting information at the tax office in Bandung and in Jakarta (Indonesia). The same thing raised Jun Shien (2015) quality accounting information system affect the quality of accounting information at the University in Bandung-Indonesia. According to Abdallah (2013: 47), the impact of the use of information systems on the quality of tax information in Jordan.

From the description above the authors identify there are several factors that affect the quality of accounting information systems that produce quality accounting information in the right decision-making such as environmental uncertainty, user competence, organizational culture and information technology in college, the author is interested to conduct research entitled Factors- Factors Affecting the Quality of Accounting Information Systems to produce Quality Accounting Information at Universities in Indonesia

2.STUDY LITERATURE

2.1. Relevant and Current Primary Reference Library and Hypothesis Development

By Prioritizing Research Results Variable Organization includes environmental uncertainty, user competence in the organization, organizational culture and information technology used by organizations in the Journal of Scientific and Development Hypothesis

Table 1. Effect of Environmental Uncertainty on the Quality of SIA

the strain of th	
Year and Author	Result of Environmental Uncertainty Study on Quality of AIS
Hammad et.al (2012)	environmental uncertainty becomes an important factor in designing an effective and efficient accounting system, and from the results of the research shows the uncertainty of the environment affecting accounting systems that result in information for management

Gilbert & Singer (2011)	environmental uncertainty shows a significant impact on strategy and
	information systems designed as a strategy.
Gull et.al. (1993)	conditions of perception of high environmental uncertainty improve the
	quality of information generated by information systems to produce
	decision-making that improves company performance.
Hwah and Huynh (2013)	Environmental uncertainties affect the accounting system and company
	performance as a moderating variable.

So it can be said from the results of previous studies formulated hypotheses H1: environmental uncertainty affects the quality of accounting information systems.

Table 2 Effect of User Competence on Quality Accounting Information System

Tuble 2 Effect of each competen	tee on Quanty meeting information system
Year and Author	User Competence Research on AIS Quality
Nurhayati dan Mulyani (2015)	user competence plays an important role in the implementation of quality
	AIS
Saleh (2013)	personal competence improves the quality of AIS
Iskandar (2015)	user competence affects the quality of AIS.
Jun Shien (2015)	user competence affects the quality of AIS that can improve decision
	making.

H2: user competence affects the quality of AIS that can improve decision making.

Table .3. Influence of Organization Culture on Quality Accounting Information System

Years and Authors	The Theory and Results of Organizational Culture Research on the
	Quality of AIS
Susanto (2013:60)	Culture is an everyday internal environment that is visible to and felt by
	those who work within it, organizational culture gives every organization
	its features and meaning and without the support of organizational
	culture all efforts will be in vain.
Ivancevich et al. (2008:37)	argued that organizational culture is what employees perceive and how it
	creates patterns of beliefs, values and expectations.
Laudon & Laudon (2014:50)	Part of organizational culture can always be found embedded in
	information systems.
Romney and Steinbart (2015:38-	the design of accounting information systems is influenced by
39)	organizational culture.
Stair and Reynolds (2012:31)	argued that organizational culture has a positive effect on the successful
	development of information systems.
O'Brien dan Marakas (2009:17)	the success of information systems is not only measured through
	efficiency in terms of minimizing cost, time and use of information
	resources, but the success of information systems one of which must be
	measured through the organizational culture that supports it.
Napitupulu (2015)	accounting information systems must be able to adjust to the
	organizational culture that exists within the organization.
Nusa (2015)	there is an influence of organizational culture on the quality of
	accounting information systems
Rapina (2014)	organizational culture affects the quality of accounting information
	systems and on the quality of accounting information.

Based on theories as the concepts in this study that have been described above and some recent research results that support the theory can then be formulated hypothesis:

H3: organizational culture affects the quality of accounting information systems.

Table 4 Influence of Information Technology on Quality Accounting Information System

Year and Author	Theory and Results of Information Technology Research on Quality of AIS
Susanto (2013:60)	Culture is an everyday internal environment that is visible to and felt by those who work within it, organizational culture gives every organization its features and meaning and without the support of organizational culture all efforts will be in vain.
Ivancevich et al. (2008:37)	argued that organizational culture is what employees perceive and how it creates patterns of beliefs, values and expectations.
O'Brien dan Marakas, (2009:16)	Success in today's dynamic business environment relies heavily on maximizing the use of Internet-based information technology and systems to meet customer needs in the global marketplace competition
Thompson & Baril (2002:2) Laudon & Laudon (2013:13)	information technology is a combination of hardware and software. information technology consists of the hardware and software organizations need to achieve organizational goals.
Wilkinson et al., (2000:66-67)	Accounting information system is influenced by the use of information technology because through the use of information technology will improve the quality of accounting information systems.
Romney & Steinbart (2015:38-39)	information technology is one of the factors that affect the accounting information system
O'Brien dan Marakas (2009:17)	the success of information systems is not only measured through efficiency in terms of minimizing cost, time and use of information resources, but the success of information systems one of which must be measured through the organizational culture that supports it.
Sacer & Oluic (2013)	the use of information technology affect the accounting information system.

Based on theories as a concept in this study which has been described above and some recent research results that support the theory can then be formulated hypothesis H4: information technology affects the quality of accounting information systems.

Table 5. Influence of Accounting Information System Quality to Accounting Information Quality.

Year and Author	Theory and Research Results Quality Accounting Information System of
	Accounting Information Quality.
Susanto (2013:16)	Accounting information system orientation to accounting information
	quality
Wilkinson et al. (2000:18)	quality information should be relevant, accurate, timely, concise, clear,
	measurable and consistent.
Mancini et al. (2013:141)	A quality accounting information system can produce quality accounting
	information that can be used to meet control needs.
Susanto (2013:12)	Companies that use information effectively can benefit from
	opportunities to do things first (faster), more rightly (more effectively)
	and cheaper (efficient) than their competitors.
Jun Shien (2014)	top management support affects the quality of accounting information
	systems and their impact on the quality of accounting information
	generated by companies by improving the quality of financial reporting
	systems.
Rapina (2014)	management commitment, organizational culture and organizational
	structure affect the quality of accounting information systems and their
	impact on the quality of accounting information.
Rahayu (2012: 25-52)	the quality of accounting information systems have a significant effect on
	the quality of accounting information.

So from the description above can be identified hypothesis

H5: that the quality of accounting information system affects the quality of accounting information.

Preliminary Study of Researcher

Preliminary study that has been implemented that is limited to literature study (textbook) and the results of research from the article, And research that has been done by researchers related to the research that will be done:

- Role of Ucertainty Environment on Management Information System- Literature Approach di IJSTR Volume 5 - Issue 6, June 2016 Edition - ISSN 2277-86
- 2. HOW COMPETENCE USER IMPACT THE QUALITY MANAGEMENT INFORMATION SYSTEM Christine Dwi Karya Susilawati, Proseeding ICITB Darmajaya 2016, https://jurnal.darmajaya.ac.id/index.php/icitb/article/view/571
- 3. "Application of Qualified Accounting Information System in Higher Education: Viewed From the Finance Section Perspective to Anticipate Environemental Uncertainty" POLITICAL ECONOMY: GOVERNMENT EXPENDITURES & RELATED POLICIES eJOURNAL Vol. 11, No. 72: May 3, 2018

 https://hq.ssrn.com/Journals/IssueProof.cfm?abstractid=3154194&journalid=1245083&issue_number=72&volume=11&journal_type=CMBO&function=showissue

Respondent's characteristic (Target)

Table 4
Characteristics of Respondents In General

Position	
Permanent lecturer	40%
Head Finance & budget	20%
Kajur / Sekprodi	20%
Finance Manager	5%
Staff accounting and reporting section	10%
Student	5%
	100%
Gender	
3.6	40%
Man	
Man Women	60%
	60% 0%

Number of Colleges	66
Total Respondent	320

Characteristics of Higher Education

		Respondents	Percentage
Institute	5	23	7
Polytechnic	8	42	13
High School	6	24	8
University	47	231	72
	66	320	100

3. Research methods

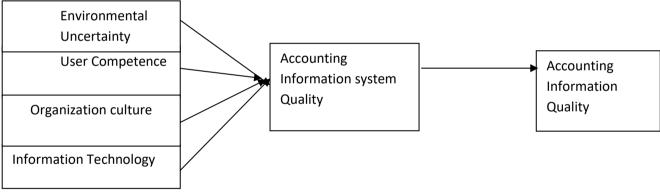
Statistical Methods Used for Processing Research Results

Data analysis method used in this research is Structural Equation Model (SEM) method - Partial Least Square (PLS). According to Hair et al. (2013), PLS is an alternative method of SEM that can be used to overcome relationship problems between complex variables but the sample size of the data in a small range (30 to 100).

The SEM-PLS approach, is a component-based estimate that differs from covariance-based estimates that are generally resolved with software such as PLS Warp. The component-based estimation method in PLS is an iterative algorithm that separately breaks the model measurement block and then estimates the path coefficients in the Model structural. Therefore, PLS is claimed to be able to explain the best residual variance of latent variables and manifest variables in any regression carried out in the model (Vinzi et al., 2010)

Model and Design Research

The research model used is described as follows:



Model and Design Research Variable Operationalization

Table 4.3 Variable Operationalization

Variable	Dimensions	Indicator	Scale	Questionn aire
Environmental	1. State uncertainty,	1)Source of change: source of external	Ordinal	1
uncertainty is the	lack of information	environmental factor change from price		
individual's inability to	about the nature of the	& demand, technology & sociological		
accurately predict	external environment	environment (Konig, 2009: 27,31-35;		
environmental	leads to the uncertainty	Luhman & Cunliffe, 2012: 57; Butler,		
conditions affecting	of perception so that			

the company. (Butler, 2001: 18; Luhman & Cunliffe, 2012: 57; Soliman, 2014: 214; Kessler, 2013: 246) As variable X1

members of the organization do not understand how things change or how things are related (Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2014: 214; Kessler, 2013: 246)

2001: 18; Soliman, 2013: 214; Kessler, 2013: 246)

2) **Level of predictability**: assumption divergent assumptions for rational management decision making (Konig, 2009: 27,31-35; Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2014: 214; Kessler, 2013: 246)

Ordinal 2

2. Effect uncertainty

That is the lack of knowledge about environmental influences on the organization means that members can not predict the impact of external changes and have confidence to give a causal statement of environmental factors (Luhman & Cunliffe, 2012: 57; Kessler, 2001: 18: Soliman. 2014: 214; Kessler, 2013:246)

1) **Downside risk / upside**: the risk of uncertainty on the organization's operational activities at the lower (execution) level and above (design / planning) harmful or beneficial (Konig, 2009: 27,31-35; Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2014: 214; Kessler, 2013: 246)
2) **The organization's performance measure (misaligned)** can not meet the needs of the environment, requiring additional costs for adaptation such as transaction costs and search costs (Konig, 2009: 27,31-35; Luhman & Cunliffe, 2012: 57; Butler, 2001: 18;

Soliman, 2014: 214; Kessler, 2013: 246)

Ordinal 3

3. Response uncertainty

lack of knowledge about the value or usefulness of any action leads to an inability to predict the consequences (Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2014: 214; Kessler, 2013: 246). 1)Endogenous uncertainty: action to overcome the inner uncertainty by proactively providing insetives (Konig, 2009: 27,31-35; Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2013: 214; Kessler, 2013: 246) 2) Exogenous uncertainty: the organization has no direct influence, the organization can adopt an adaptive strategy (Konig, 2009: 27,31-35; Luhman & Cunliffe, 2012: 57; Butler, 2001: 18; Soliman, 2014: 214; Kessler, 2013: 246)

Ordinal 4

Ordinal

5

User Competence is knowledge, skills as the best characteristic of a person's job (Cooper, 2000: 23; Spencer & Spencer, 1993: 9; Armstrong, 2011: 86; Kessler, 2008: 11; Gerber and Collin 2000: 49). As a variable X2	1. Motive , something that is consistently about something desirable that results in action. (Spencer & Spencer, 1993: 9-11).	1) Impact and Influencing (have influence):, Impact and influence from inside and outside / Intrinsically and extrinsically (Krausert, 2008: 187; Mckee, 2012: 21, 62). 2) Achievement Orientation (achieve personal goal) (Krausert, 2008: 187, Mckee, 2012: 21) .	Ordinal	6
	2. Traits . physical characteristics and a consistent response to the situation or information. (Spencer & Spencer, 1993: 9-11; Armstrong, 2011: 194).).	1) Analytical thinking (conceptual thinking) (Krausert, 2008: 187) 2) Initiative and Persistence (Krausert, 2008: 187) 3) Problem solving (Krausert, 2008: 187)	Ordinal Ordinal	7
	3. Self-Concept, attitudes, values and self-image of a person (Spencer & Spencer, 1993: 9-11; Armstrong, 2011: 194).	1)Flexibility (Krausert, 2008:187) 2)Self Confidence(Krausert, 2008:187) 3)Self Control(Krausert, 2008:187)	Ordinal Ordinal	9
	4. Knowledge is information of a person in a specific area (Spencer & Spencer, 1993: 9-11; Gerber and Collin 2000: 55-56).	1) General Knowledge (general information) (Spencer & Spencer, 1993: 9-11; Gerber and Collin 2000: 55-56) 2) Specific knowledge of information on specific areas - Levels of formal and informal education (Spencer & Spencer, 1993: 9-11; Gerber and Collin 2000: 55-56)	Ordinal	11

1)People Management Skills: Socialized power, managing group

	5. Skill, ability that demonstrates ability in physical or mental task tasks (Spencer & Spencer, 1993: 9-11; Gerber and Collin 2000: 55-56).	process, positive regard and accurate self assessment (Spencer & Spencer, 1993: 9-11; Mckee, 2012: 22) 2) Goal and Action Skills: efficiency orientation, diagnostics use of concepts, proactivity (Spencer & Spencer, 1993: 9-11; Mckee, 2012: 22)	Ordinal	12
			Ordinal	13
Organizational culture	1. Orientation on detail (Robbins, et.al, 2013: 314)	1) employees are expected to show accuracy and analysis (Robbins, et.al, 2013: 314) 2) employees are expected to pay attention to details (Robbins, et.al, 2013: 314).	Ordinal	
	2. Orientation on results (Robbins, et.al, 2013: 314)	1)The extent to which management is more focused on results (Robbins, et.al, 2013: 314) 2) The extent to which management is more focused on the techniques and processes used to achieve results (Robbins, et.al, 2013: 314)	Ordinal	15
	1. Orientation of the people (Robbins, et.al, 2013: 314)	1) to what extent management decisions consider what is produced in people in the organization (Robbins, et.al, 2013: 314) 2) to what extent management decisions consider the effects of what is produced on the people within the organization (Robbins et al, 2013: 314)	Ordinal	16
	3. Team orientation (Robbins, et.al, 2013: 314)	 to what extent management decisions consider what is produced in people in the organization (Robbins, et.al, 2013: 314) to what extent management decisions consider the effects of what is produced on the people within the organization (Robbins et al, 2013: 314) 	Ordinal	17

	4. Aggressiveness (Robbins, et.al, 2013: 314)	1) to the extent to which people are aggressive (Robbins, et.al, 2013: 314) 2) to the extent to which people are willing to compete (Robbins, et.al, 2013: 314)	Ordinal	18
	5. Stability (Robbins, et.al, 2013: 314)	1) organizational activities emphasize maintaining stability (Robbins, et.al, 2013: 314) 1.4 2)organizational activities lead to growth (Robbins, et.al, 2013: 314)	Ordinal	19
	6. Innovation and risk-taking (Robbins, et.al, 2013: 314)	1)employees are encouraged to be innovative (Robbins, et.al, 2013: 314) 2)employees are encouraged to take risks (Robbins, et.al, 2013: 314)	Ordinal	20
Use of Information Technology (X4) (Thompson & Baril, 2002: 2; Romney and Steinbart, 2015: 31; Laudon and Laudon, 2013: 13)	1. Based on function (Thompson & Baril, 2002: 36) 1.1	. 1) Speed Thompson and Baril, 2002: 36) 2) Reliability Thompson and Baril, 2002: 36) 3) Usage Fee (Thompson and Baril, 2002: 36) \$) Conditions of use (Thompson and Baril, 2002: 36)	Ordinal	21
	2.Ease of use (Thompson & Baril, 2002: 36)	1)Quality of user interface (Thompson and Baril, 2002: 36) 2) Ease to become an expert (Thompson and Baril, 2002: 36) 3) Portability (Thompson and Baril, 2002: 36)	Ordinal	22
	3. Conformity (Thompson & Baril, 2002: 36)	1)Conformity with standards (Thompson and Baril, 2002: 36) 2) Operational conformance (Thompson and Baril, 2002: 36)	Ordinal	23
	4. Maintenance (Thompson & Baril, 2002: 36)	1)Modularity (Thompson and Baril, 2002: 36) 2) Scalability (Thompson and Baril, 2002: 36) 3) Flexibility (Thompson and Baril, 2002: 36) 1.1		24
Quality Accounting Information System (Y) (Susanto, 2013: 72; Wilkinson et al., 2000: 7; Bodnar & Hopwood, 2014: 1; Romney & Steinbart, 2015: 36; Bagranoff et al., 2010: 5)	1.Integration (Heidmann, 2008: 87; Susanto, 2013: 16)	1) the system can facilitate the processing of information from various resources to support decision making (Heidmann, 2008: 87) 2) Integration of all related elements and sub-elements in establishing an accounting information system (Susanto, 2013: 16)	Ordinal	25

	2.Flexibility (Heidmann, 2008: 88)	1) information systems can adapt to the various users in need (Heidmann, 2008: 88) 2) information systems can adapt to changing conditions (Heidmann, 2008: 88)	Ordinal	26
	3. Accessibility (Heidmann, 2008:89)	1)use of a computerized system (Heidmann, 2008: 89) 2) ease in accessing information contained in information systems (Heidmann, 2008: 89)	Ordinal	27
	4. Formalization (Heidmann, 2008:90)	1)system contains rules or procedures (Heidmann, 2008: 90) 2)rules or procedures contained in the system are used to coordinate activities (Heidman, 2008: 90)	Ordinal	28
Quality of Accounting Information (Z) (Susanto, 2013: 13; James A.Hall, 2011: 14; Wilkinson et al., 2000: 18; Romney and Steinbart, 2015: 30)	1.Accurate (Susanto, 2013: 13; Hall, 2011: 14)	1)reflects the existing situation and conditions (Susanto, 2013: 13) 2) information must be free from material fallacies (Hall, 2011:	Ordinal	29 30
			Ordinal	
	2. Relevan (Susanto, 2013:13; James A.Hall, 2011:14)	1) Accounting information generated really fit the needs (Susanto, 2013: 13) 2) accounting information in reports or documents shall be in accordance with the intended (Hall, 2011: 14)	Ordinal	31
	3.Timeliness (Susanto, 2013:13; Hall, 2011:14)	1) Accounting information generated really fit the needs (Susanto, 2013: 13) 2) accounting information in reports or documents shall be in accordance with the intended (Hall, 2011: 14)	Ordinal	32
	4.Complete (Susanto, 2013:13; Hall, 2011:14)	1) the resulting accounting information has been as complete as desired and needed (Susanto, 2013: 13) 2) no missing information (Hall, 2011: 14)	Ordinal	33

Conclusions in literature

So it can be said that the most attention by universities in Indonesia is information technology to improve the quality of accounting information systems, and other factors that play an important role is the organizational culture in the University in terms of task orientation in detail, team, organization or

work orientation more stable, aggressive and innovative. Supported by other factors that play an important role is the competence of users in higher education which is more dominant in knowledge and skill, traits, self concept and motive. Environmental uncertainty factor is important but difficult compared to other factors in this study, but it is important to note because this environment is always uncertain and should be anticipated and how the effects should be done.

This research will still continue next article in Research Results and Discussion and Solution Suggestion Suggested

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