



Sustainable Collaboration
in Business, Technology,
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SCBTII PROCEEDINGS

**FOSTERING INCLUSIVE DEVELOPMENT AND SUSTAINABILITY
IN INDUSTRIAL REVOLUTION 4.0
THROUGH DIGITAL BUSINESS ECOSYSTEM**

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PREFACE

As a World-Class University, Telkom University has a responsibility to publish research papers. One of the efforts to fulfill this responsibility is by holding an academic conference as an event for discussion, dissemination and publication of academic research results. This proceeding is a publication that contains papers those were presented at The 9th International Conference on Sustainable Collaboration in Business, Technology, Information and Innovation 2018 (SCBTII 2018) which was held on November 15th, 2018 in El Royale Hotel Bandung.

This conference had two main sessions, i.e. plenary session and parallel session which were attended by around 110 participants. The plenary session consisted of a keynote speech that was delivered by Mr. Erik Meijer, The President Director of TelkomTelstra, and a panel discussion which featured some experts as the invited speakers, i.e. Professor Dr. Barbara Igel from Asian institute of Technology, Thailand; Associate Professor Dr. Sulfikar Amir from Nanyang Technological University, Singapore; Dr. Dodie Tricahyono, The Dean of Faculty of Economics and Business Telkom University; Dr. Andry Alamsyah, Big Data Scientist & Director of Digital Business Ecosystem Research Center Telkom University; and Dr. Adhi Prasetyo from Telkom University as the moderator of the panel discussion.

There were 67 papers presented in the parallel session of this conference coming from various universities and higher educational institutions from Indonesia, Netherlands, Malaysia, and Japan. Those papers had been reviewed by our respected reviewer team from various universities in Indonesia, Malaysia, Thailand, India, and Singapore.

SCBTII 2018 was successfully held under collaboration with some university partners, i.e. Faculty of Business & Economics Universitas Surabaya, Magister Manajemen Sekolah Tinggi Ilmu Ekonomi Ekuitas, Faculty of Economics Universitas Galuh, and Faculty of Economics Universitas Garut. This conference was also supported by Ikatan Sarjana Ekonomi Indonesia (ISEI) Cabang Bandung, Ikatan Akuntan Indonesia (IAI) Wilayah Jawa Barat, and Jurnal Manajemen Indonesia.

On behalf of the committee, I would deliver our gratitude to all distinguished speakers, authors, presenters, participants and sponsors for the successful event of SCBTII 2018.

Bandung, November 15th, 2018

Dr. Astrie Krisnawati

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LIST OF PAPERS

SUPPLY CHAIN MANAGEMENT PRACTICES (SCMP) IN CIBADUYUT'S SHOE INDUSTRY

Rieka Hutami, Mutia Oktaviana, Alexandra
.....1

IMPLEMENTATION OF E-PROCUREMENT IN TELCO COMPANY

Rieka Hutami, Dahlia Febri Astuti2

HOW SUCI'S INDUSTRY TEXTILE INDUSTRY MANAGING THEIR SUPPLY CHAIN (SCMP)

Rieka F. Hutami, Putri Adelina3

PREDICTION FINANCIAL DISTRESS USING FINANCIAL RATIOS WITH DISCRIMINANT ANALYSIS AND REGRESSION LOGISTIC METHOD

Aprila Wiguna, STP, Dr. Norita, SE., MM, Ak., CA
.....4

DEVELOPMENT STRATEGY OF PLANTATION SUB SECTOR LISTED IN INDONESIA STOCK EXCHANGE TO ENHANCE COMPANIES' PERFORMANCE

Rudyta Lucyana Rosidi, Rosad Ma'ali El Hadi, Maria
Dellarosawati Idawicaksakti.....5

PROPOSED DIGITAL MARKETING STRATEGY FOR INDONESIAN POLITICAL CONSULTING: STUDY CASE OF LINGKARAN SURVEI INDONESIA

Monica Anggi JR6

POST MORTEM ANALYSIS TO ECONOMICALLY JUSTIFY AN EXPANSION OF FERRO NICKEL SMELTER IN NORTHERN MALUKU

Lesbon A J Sitorus S.T, Dr. Kin Tjendrasa, MBA
.....7

INDUSTRIAL FUTURE-SHAPING ON INFORMATION AND COMMUNICATION TECHNOLOGY FOR INDONESIA WITH TRANSFORMATIVE SCENARIO PLANNING APPROACHES

Achmad Yahya Sjarifuddin and Yos Sunitiyoso
.....8

INFLUENCE OF MOTIVATION AND COMPETENCY ON PERFORMANCE OF TELKOM EMPLOYEES DIRECTORATE HUMAN CAPITAL MANAGEMENT

Hasto Kuncana Hesnawanto, Ratri Wahyuningtyas
..... 9

PURPOSE CONTENT CREATION FRAMEWORK TO INCREASE CONSUMER ENGAGEMENT ON SOCIAL MEDIA

Brian Al Afwan1, Manahan Siallagan..... 10

DIVERSIFICATION AND FINANCIAL DISTRESS IN BANKING INDUSTRY (EMPIRICAL STUDIES IN INDONESIA)

Farida Titik Kristanti, Deannes Isynewardhana, Sri
Rahayu..... 11

MEASURING SMART BUILDING READINESS INDEX: A BANDUNG PERSPECTIVE

Indrawati, Angdini Dea Nurillaily Husni Amani
..... 12

MEASURING SMART GOVERNANCE READINESS INDEX: A BANDUNG PERSPECTIVE

Indrawati, Fandi Kurnia Putra Husni Amani
..... 13

BUSINESS INVESTMENT ANALYSIS FOR NEW COSMETICS BRAND OF PT ELCASTLE INDONESIA

Urai Jella Oktaviyari and Erman Arif Sumirat
..... 14

EVALUATION NEW E – BUSINESS PROCESS PERFORMANCE OF PT. POS INDONESIA USING E- SERVICE FLEXIBILTY AND CAC FRAMEWORK

Yulius Ginardi Sukwandi & Deddy Priatmodjo
Koesrindartoto..... 15

THE INFLUENCE OF INDUSTRY ENVIRONMENT AND COMPANY ASSET ON STRATEGIC INNOVATION AND THE IMPLICATION ON BUSINESS VALUATION OF DIGITAL INDUSTRY IN INDONESIA

Edy Witjara, Aldrin Herwany, Setyanto P. Santosa
..... 16

THE ROLE OF MANAGEMENT STYLE OF OWNER OR MANAGER OF CULINARY SMES IN EMPLOYEE

ENGAGEMENT THROUGH INTERNAL COMMUNICATION

Amasida Imansari, Anggara Wisesa17

THE IMPLEMENTATION OF ANALYTIC HIERARCHY PROCESS TO IMPROVE DECISION MAKING PROCESS IN SELECTING BUSINESS PARTNER IN PT GARUDA INDONESIA (PERSERO) TBK. CASE STUDY: SELECTION OF INFLIGHT WIFI PROVIDER FOR DOMESTIC FLIGHTS

Ikra Loveni, Yos Sunitiyoso.....18

EFFECT OF LIQUIDITY RATIO, LEVERAGE RATIO, PROFITABILITY RATIO, GROWTH OPPORTUNITIES, AND FIRM SIZE TO EARNING RESPONSE COEFFICIENT

(STUDY IN GO PUBLIC TELEKOMMUNICATION COMPANIES IN INDONESIA STOCK EXCHANGE PERIOD 2011-2017)

Fajar Aulia Rachman, Brady Rikumahu.....19

THE ANALYSIS OF FINANCIAL PERFORMANCE (A CASE STUDY ON THE GOVERNMENT OF INDONESIA)

Yeni Priatna Sari, Hetika, Ida Farida20

THE BUSINESS ECOSYSTEM FOR INDUSTRIAL REVOLUTION 4.0: A GAME THEORY APPROACH

Aluisius Hery Pratono and Suyanto21

INTERNAL AND EXTERNAL DETERMINANTS OF INDONESIAN FIRMS' PRODUCTIVITY: THE IMPORTANCE OF TRADE AND FOREIGN INVESTMENT

Suyanto and Yenny Sugiarti22

EXAMINING PERFORMANCE MANAGEMENT SYSTEM IN INDUSTRIAL REVOLUTION 4.0: A STUDY AT RESEARCH AND DEVELOPMENT DIVISION OF AN INDONESIAN STATE-OWNED ENTERPRISE

Yuliani Rachma Putri, A.K., Siti Nabihah; Zubir Azhar23

INVESTMENT PROJECT ANALYSIS OF NEW PRODUCTION FACILITY AT A VACCINE MANUFACTURER

Dyla Anisa and Taufik Faturohman24

THE ROLE OF INDEPENDENT DIRECTORS AND INDEPENDENT COMMISSIONERS IN PREVENTING EARNINGS MANAGEMENT

Dudi Pratomo, Dini W Hapsari 25

THE DEVELOPMENT MODEL OF DETECTION FRAUDULENT REVIEW: THE IMPLEMENTATION OF GOOD CORPORATE GOVERNANCE (RESEARCH ON BPR AT PEKALONGAN REGENCY)

Dewi Indriasih, Dien Noviany Rahmatika, Yeni Priatna Sari 26

DEVELOPING VALUE PROPOSITION FOR ONLINE CATERING COMPANY

Reza Ashari Nasution, Kanya Ramyacitta Mahaperdana 27

CUSTOMER SATISFACTION NATIONAL HEALTH INSURANCE (JKN) (REVIEWED FROM MARKETING OF HEALTH SERVICES AND SERVICE QUALITY)

Titin Suhartini 28

THE INFLUENCE OF COMPETENCY AND MOTIVATION ON JOB SATISFACTION AND THE IMPACT ON EMPLOYEES PERFORMANCE IN FOREIGN COOPERATION MANAGEMENT (PENGELOLA KERJA SAMA LUAR NEGERI) IN WEST JAVA PROVINCIAL GOVERNMENT

Siska Ayudia Adiyanti 29

THE INFLUENCE OF ECO-LABEL, ECO-BRAND, ENVIRONMENTAL ADVERTISEMENT TOWARDS CONSUMER'S TRUST OF GREEN COSMETICS IN INDONESIA

Arqie Buana Rara, Damayanti Octavia..... 30

THE INFLUENCE OF GREEN BRAND AWARENESS, GREEN BRAND IMAGE, GREEN BRAND SATISFACTION, GREEN BRAND TRUST TOWARDS GREEN BRAND PREFERENCE (THE BODY SHOP, ORIFLAME, AND L'OCCITANE USERS IN INDONESIA)

Muhammad Rizky Ardita Putra, Damayanti Octavia 31

INFLUENCE OF GREEN MARKETING TOOLS ON CONSUMER PURCHASING BEHAVIOR OF LED LIGHTS IN INDONESIA

Aldo Falah Risqiaputra, Damayanti Octavia32

IMPACT OF BRAND AWARENESS, BRAND ASSOCIATION, PERCEIVED QUALITY, BRAND LOYALTY, AND AFTER SALES SERVICE IN BUILDING BRAND EQUITY (CASE ON YAMAHA HONDA AND KAWASAKI IN JAKARTA)

Muhamad Jiyad Pribuana, Damayanti Octavia S.E.,M.M.....33

ENHANCING MARGINAL COMMUNITY WELFARE AROUND STAR HOTELS:

A STUDY OF CORPORATE SOCIAL RESPONSIBILITY
Purwanto, Djoko Suhardjanto, Wardo, and Supriyadi34

QUALITY METRIC DESIGN AS A TOOL TO CONTROL THE QUALITY OF PROJECT

Lakshita Juwita Mufti, Devi Pratami, Wawan Tripiawan35

AN INNOVATION STRATEGY FOR PRODUCT INNOVATION:

A CASE STUDY OF CILOK SAE
Syifa Fajar Maulani, Salfitrie R. Maryunani.....36

STRATEGY FOR EMPOWERMENT OF BATIK SMES IN TASIKMALAYA CITY TO FACE INDUSTRIAL AGE 4.0

Marlina Nur Lestari, Nuryanti Taufik, Toto.....37

ANALYSIS OF SHARIA FINANCE LITERACY RATE (STUDY ON UNDERGRADUATE AND POSTGRADUATE STUDENTS OF ECONOMICS AND BUSINESS FACULTY, TELKOM UNIVERSITY)

Irni Yunita, Almand Fuad Alimuddin.....38

ANALYSIS OF FACTORS THAT AFFECT NET INITIAL RETURN (EMPIRICAL STUDY ON ALL COMPANIES LISTED THAT IPO IN INDONESIA STOCK EXCHANGE FOR THE PERIOD 2013 – 2017)

Della Desvia Hulwani, Vaya Juliana

Dillak S.E.,M.M. 39

ANALYSIS AND PROPOSED SERVICE QUALITY IMPROVEMENT OF DIETPLUS BANDUNG

Rony Oki Girsang, Yuliani Dwi Lestari 40

DIGITAL MARKETING MODEL OF FB ADS AND INSTAGRAM IN INCREASING SMES SALES VOLUME

Mukhtar Abdul Kader, Moch Aziz Basari, Wiwin Setianingsih 41

IDENTIFYING FINANCIAL DISTRESS FIRMS: A CASE STUDY ON PROPERTY AND REAL ESTATE COMPANIES

LISTED IN INDONESIAN STOCK EXCHANGE
Vaya Juliana Dillak, Zaza Humaida Fitri..... 42

MODEL OF ENTREPRENEURSHIP DEVELOPMENT IN SUSTAINABLE TOURISM

Iwan Setiawan, Risna Kartika, Kasman 43

CONQUERING ACCULTURATIVE STRESS IN FIRST-YEAR UNDERGRADUATE STUDENTS: CONCEPTUAL REVIEW

Umi Zuraida*, Henndy Ginting, Muhammad Yorga Permana, Ima Fatima, Cahyaningtyas Nova Puspitadewi, Rafiati Kania 44

WEBSITE DESIGN QUALITY COMPONENTS AS TRUST AND SATISFACTION FORMERS AND ITS IMPLICATIONS FOR CONSUMER INTENTION AND BEHAVIOR: STUDY ON ONLINE TRAVEL AGENTS IN INDONESIA

Abella Ayu Kusuma, Whony Rofianto 45

THE IMPACT OF DISCONFIRMATION AND INVOLVEMENT TOWARD HOPE AND REGRET, AND THEIR IMPLICATIONS ON CONTINUED USE OF APPLICATIONS:

A STUDY ON GO-JEK PLATFORM
Nurhasna Isnaini, Whony Rofianto 46

VALUATION ANALYSIS FOR FAIR VALUE OF SHARES OF PT. GARUDA INDONESIA TBK. USING THE FREE CASH FLOW TO FIRM (FCFF) METHOD AND RELATIVE VALUATION METHOD

Antaseno Septian Jinca, Astrie Krisnawati 47

STOCK VALUATION IN INDONESIA BANKING INDUSTRY USING DIVIDEND DISCOUNTED MODEL AND FREE CASH FLOW TO FIRM METHODS
Bangun M Sagala, Astrie Krisnawati48

THE STRATEGY OF EMPOWERING SMES BY USING BUSINESS ECOSYSTEM APPROACH CASE STUDY AT COFFEE INDUSTRY IN TIMOR LESTE
Calisto Babo Soares and Dodie
Tricahyono49

CULTURAL DIMENSION ANALYSIS AS AN ANTECEDENT TO INTERNET BANKING ADOPTION IN INDONESIA
Venessa Rachmi Putri, Refi Rifaldi Windya Giri,
Putri Isnaeni Rizqiana50

DEVELOPMENT HISTORY OF PUBLIC SECTOR FINANCIAL MANAGEMENT
Yat Rospia Brata, Dendy Syaiful Akbar, Mohamad
Apip51

MEASUREMENT OF PERSONAL PROJECT MANAGER COMPETENCE AS A MEDIA TO IMPROVE PROJECT SUCCESS
Fajri Tri Rahmadini Alsya, Devi Pratami, Wawan
Tripiawan, and Ageak Raporte Bermano...52

CAN SWALLOW'S NEST CONTRIBUTE GREATLY TO LOCAL OWN REVENUE? EVIDENCE ON ONE OF THE LOCAL GOVERNMENTS IN INDONESIA
Dendy Syaiful Akbar, Wildan Dwi Dermawan,
Benny Prawiranegara53

TOURISM POTENTIAL, PRODUCTIVITY OF SMALL AND MEDIUM ENTERPRISES (SMES) : IMPACT ON THE IMPLEMENTATION OF LABOR IN SOUTH GARUT, WEST JAVA, INDONESIA
Hani Siti Hanifah, Deri Alan Kurniawan, Rostiena
Pasciana54

THE INFLUENCE OF BRAND EQUITY TOWARD INDONESIAN PREPAID SIM CARD CUSTOMERS' PURCHASE DECISION
Haeruddin Hafid, Mahir Pradana, Muhammad
Diandri, Nyimas Bunga55

MODERN TAX ADMINISTRATION SYSTEM IN TAXPAYER COMPLIANCE
Eliya Fatma Harahap, Hani Siti Hanifah, Desi
Qoriah, Irma Rosmayati 56

HOW FAR WILL MARKET RISK AFFECT THE CREDIT RISK-MOVEMENT OF INDONESIAN BONDS?
Nora Amelda Rizal, Asep Wahyudin 57

THE LOCATION DETERMINANTS OF FOREIGN DIRECT INVESTMENT IN INDONESIA: DOES REGIONAL CHARACTERISTICS AND INDUSTRY AGGLOMERATION MATTER?
Yuhana Astuti 58

SERVICE EXCELLENCE AND SERVICE RECOVERY: THE IMPACTS ON CUSTOMER SATISFACTION AND LOYALTY
Bethani Suryawardani, Fanni Husnul Hanifa, Widya
Sastika, Astri Wulandari..... 59

STATE-OWNED ENTERPRISES AS THE DRIVING FORCE OF INDONESIAN ECONOMIC GROWTH : COMPARASION INDONESIAN AND JAPAN
Wulandari Ayuningtias, Nora Amelda Rizal
..... 60

DOES CORPORATE SOCIAL RESPONSIBILITY DISCLOSURE AFFECT STOCK RETURN? (AN EMPIRICAL STUDY IN INDONESIA CRUDE PETROLEUM AND NATURAL GAS INDUSTRY)
Astrie Krisnawati, Yuliana Sari 61

ENTREPRENEURSHIP EDUCATION, ENTREPRENEURIAL EXPERIENCES, AND CREATIVITY AFFECT ENTREPRENEURIAL INTENTION IN BUSINESS PROGRAM STUDENTS IN TELKOM UNIVERSITY
Pham Van Thanh Truc , Kristina Sisilia 62

RECOMMENDATION TO INCREASE POINT REWARD REDEMPTION IN ABC POIN CASE STUDY
Dwi Wahyu Wijaya, Gadang Ramantoko .. 63

STRATEGIES TO INCREASE PURCHASE OF DATA PACKAGES FOR TELKOMSEL KARTUHALO CUSTOMERS
Ficky Yoga Pratama Sagala, Gadang Ramantoko
..... 64

**EFFECT OF CUSTOMER SATISFACTION,
SWITCHING COST, VARIETY SEEKING, CUSTOMER
VALUE ON TELKOMSEL CUSTOMER LOYALTY IN
CIREBON DISTRICT**

Bayu Prakoso, Gadang Ramantoko65

**THE IMPACT OF ACQUISITION ON FINANCIAL
PERFORMANCES OF NON-FINANCIAL
ACQUIRER COMPANIES**

Tieka Trikartika Gustyana, Andrieta Shintia Dewi,
H. M. Eryad66

**ANALYSIS OF CONSUMER ENGAGEMENT IN
TELKOMSEL FACEBOOK ACCOUNT: A CONTENT
ANALYSIS**

Erni Martini, Fidelis Yogiswara Wastu A. .. 67

**COMPARISON OF CAPITAL ASSET PRICING MODEL
(CAPM) AND MULTIFACTORS MODEL IN
PREDICTING STOCK RETURNS**

Arinda Yulia Wicahyanti,
Brady Rikumahu..... 68

INTERNAL AND EXTERNAL DETERMINANTS OF INDONESIAN FIRMS' PRODUCTIVITY: THE IMPORTANCE OF TRADE AND FOREIGN INVESTMENT

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Abstract

This study examines the key internal and external factors of Indonesian firms' productivity. The internal factors cover material, labour, capital, and energy, whereas the external factors are foreign investment, export, and import. Applying the augmented Cobb-Douglas production function on 8,589 manufacturing firms within seven years period, the results show the significant influence of material, labour, capital, and energy, respectively, on the output productivity. Foreign investment, export, and import also have significant impacts on the output partially. The results are robust under four methods of analyses, namely Ordinary Least Squared (OLS), Generalized Least Squared (GLS), Maximum Likelihood (ML), and General Method of Moments (GMM).

Keywords: Internal dan external factors, Firms' productivity, Indonesian firms, trade, foreign investment.



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