



CERTIFICATE



Awarded to

Abdullah Ramdhani

in recognition of the participation in
The 5th International Summit on Science Technology and Humanity 2019
(Advancing Scientific Thought for Future Sustainable Development)

As

Participants

3-4 December 2019
Siti Walidah Building UMS

Chairman ISETH 2019

Waluyo Adi Siswanto, Ph.D.

p-ISSN: 2477-3328

e-ISSN: 2615-1588

PROCEEDINGS BOOK

International Summit on Science,
Technology and Humanity

**ISETH
2019**

Siti Walidah Building UMS

3 - 4 December 2019

<http://iseth.ums.ac.id>

ICHWB

INTERNATIONAL CONFERENCE
ON HEALTH AND WELL-BEING

ICIMS

INTERNATIONAL CONFERENCE
ON ISLAMIC AND MUHAMMADIYAH STUDIES

ICGDM

INTERNATIONAL CONFERENCE
ON GEOGRAPHY AND DISASTER MANAGEMENT

ICOEBS

INTERNATIONAL CONFERENCE
ON ECONOMICS AND BUSINESS STUDIES

ICIIP

INTERNATIONAL CONFERENCE
ON ISLAMIC AN INDIGENOUS-Psychology

ICOLAE

INTERNATIONAL CONFERENCE
ON LEARNING AND ADVANCED EDUCATION

ICB-PHARMA

INTERNATIONAL CURRENT
BREAKTHROUGH IN PHARMACY



UMS

Universitas Muhammadiyah Surakarta



ISETH2019 Committee

PATRONS

Prof. Dr. Sofyan Anif, M.Si (Rector, Universitas Muhammadiyah Surakarta)
Prof. Dr. Muhammad Da'i, M.Si, Apt (Vice Rector 1, Universitas Muhammadiyah Surakarta)
Ir. Sarjito, M.T, Ph.D (Vice Rector 2, Universitas Muhammadiyah Surakarta)
Taufik, M.Si, Ph.D (Vice Rector 3, Universitas Muhammadiyah Surakarta)
Dr. Muhammad Musiyam, M.T (Vice Rector 4, Universitas Muhammadiyah Surakarta)

ADVISORY BOARD

Prof. Dr Bambang Sumardjoko, M.Pd (Director - School of Postgraduate Studies)
Prof. Dr. dr. E.M. Sutrisna, M.Kes (Dean - Faculty of Medicines)
drg. Dendy Murdiyanto, M.DSc (Dean - Faculty of Dentistry)
Ir. Sri Sunarjono, MT., PhD (Dean - Faculty of Engineering)
Dr. Mutalazimah (Dean - Faculty of Health Sciences)
Dr. Drs. Syamsudin , M.M (Dean - Faculty of Economics and Business)
Susatyo Yuwono, S.Psi, Psi., M.Si (Dean - Faculty of Psychology)
Drs. Yuli Priyana, M.Si (Dean - Faculty of Geography)
Dr. Syamsul Hidayat, M.Ag (Dean - Faculty of Islamic Studies)
Nurgiyatna , S.T., M.Sc., Ph.D (Dean - Faculty of Communication and Informatics)
Prof. Dr. Khudzaifah Dimyati (Dean - Faculty of Law)
Prof. Dr. Harun Joko Prayitno, M.Hum (Dean - Faculty of Teacher Training and Education)
Agus Ulinuha, Ph.D (Director - Research and Community Service Office)
Wisnu Setiawan, Ph.D (Director - Scientific Publication and Textbook Development Office)

CHAIR CONFERENCES

Prof. Dr. Endang Fauziati

ICIMS - International Conference on Islamic and Muhammadiyah Studies

Peni Indrayudha, Ph.D

ICB-PHARMA - International Current Breakthrough in Pharmacy

Setyaningrum Rahmawaty, PhD

ICHWB - International Conference on Health and Well-Being

Assoc. Prof. Tri Widodo Besar Riyadi, Ph.D

MEST - Mechanical Engineering, Science and Technology International Conference

Mrs. Dewita Puspawati, S.E., Ak., M.Sc.

ICOEBS - International Conference on Economics and Business Studies

Prof. Dr. Sutama

ICOLAE - International Conference on Learning and Advanced Education

Jumadi, S.Si, M.Sc., Ph.D

ICGDM - International Conference of Geography and Disaster Management

Assoc. Prof. Yayah Khisbiyah, M.A.

ICIIP - International Conference of Islamic and Indigenous Psychology

ORGANISING COMMITTEE

Chairman:

Assoc. Prof. Dr. Waluyo Adi Siswanto

Co Chairman:

Dr. Daliman

Schedule and Event:

Anita Sukmawati, S.Si, M.Si, Ph.D, Apt

Jumadi, Ph.D

Lusi Nuryanti, Ph.D

Treasurer

Agus Santoso, S.E.

Suni Tuti, S.P.

Publicity, Promotion and Sponsorship

Dr. Anam Sutopo

Conference Venue and Programme

Andi Widagdo, S.Pd.

Dr. Didit Purnomo

Maryadi, S.HI.

Website, Paper Submission and Review System

Yuldarrahman, S.T.

Farizky Rahman, S.Pd.

Rahit Iskandar, S.Si.

ISETH 2019 Technical Experts

ICIIP Technical Experts

Dr. Ahmad Rusdi

Islamic Psychology, Measurement of character
Universitas Islam Indonesia, **Indonesia**

Ali Mahmud Ashshiddiqi, S.Pd.I., M.A.

Educational Psychology, Islamic Psychology, Islamic Education
Universitas Islam Indonesia, **Indonesia**

Assoc. Prof. Benina Gould

Clinical Psychology, Psychology and Extremism
Saybrook University, **United States**

Dr. Daliman, S.U.

Educational psychology, Entrepreneurship education, Guidance and counseling, School psychology
Universitas Muhammadiyah Surakarta, **Indonesia**

Assoc. Prof. Dr. Eny Purwandari

Clinical Psychology, Psychology and Extremism
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Assoc. Prof. Dr. Fuad Nashori, M. Ag

Islamic Psychology, Social Psychology, Psychological Intervention
Universitas Islam Indonesia, **Indonesia**

Prof. Kurnaidi, Ph.D.

Psychometrics, Education
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Lisnawati Rubaena

Education psychology, Early child education, Parenting
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Lusi Nuryanti, Ph.D.

Qualitative research, Grounded theory, Community resilience, Disaster Psychology
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Mohamed Seedat, Ph.D.

Critical Community Psychology, Safety and Health Promotion, Violence and Injury Prevention, Spirituality and Religion in Human Development

Institute for Social and Health Sciences, University of South Africa, **South Africa**

Assoc. Prof. Dr. Nanik Pribartanti

Personality and Indigenous Psycholog
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Assoc. Prof. Dr. Nisa Rachmah Nur Anganthi

Clinical Psychology, Psychological Intervention, Forensic Psychology, and Spiritual Psychology
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Rini Lestari, M.Si.

Community Psychology, Social Psychology, Counseling Psychology
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Santi Sulandari, M. Ger.

Developmental Psychology and Ageing

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Shabnaaz Suffla, D.Phil.

Critical Community Psychology, Critical Peace Psychology, Violence and Injury Prevention, Participatory Research

Institute for Social and Health Sciences, University of South Africa, **South Africa**

Assoc. Prof. Shukran Abd Rahman

Personnel and Occupational Psychology, Psychometrics

International Islamic University of Malaysia, **Indonesia**

Assoc. Prof. Dr. Sri Lestari

Family psychology, Indigenous psychology

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Subandi, Ph.D.

Clinical Psychology, Islamic Psychology, Spirituality

Universitas Gadjah Mada, **Indonesia**

Assoc. Prof. Susatyo Yuwono, M.Si

Industrial/Organizational Psychology

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Assoc. Prof. Dr. Taufik

Social, Islamic & Positive Psychology

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Usmi Karyani, M.Si.

Mental Health and Wellbeing

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Wiwien Dinar Pratisti

Developmental Psychology, Educational Psychology, Well-Being

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Assoc. Prof. Yayah Khisbiyah, M.A.

Peace Psychology, Multicultural Relations, Conflict Transformation, Community Psychology

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Yudhi Satria

Industrial & organizational psychology, Psychometric and Educational Psychology

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

ICOEBS Technical Experts

Assoc. Prof. Dr Sivaram Vemuri

Cost of Silence in workplaces, Diaspora Business, Sustainable Livelihoods

Charles Darwin University **Australia**

Prof. Dr. Md. Mamun Habib

Supply Chain Management, Operations Management, Operations Research (Visiting Scientist, University of Texas - Arlington, USA)

BRAC Business School, BRAC University **Bangladesh**

Mrs Aflit Nuryulia Praswati

Management

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr Agung Riyardi

Microeconomics, Econometric

Universitas Muhammadiyah Surakarta **Indonesia**

Akhmad Syakir Kurnia, SE.,M.Si.,Ph.D

Economics

Universitas Diponegoro **Indonesia**

Andi Dwi Bayu Bawono, Ph.D

Public sector accounting

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Anton Agus Setyawan, S.E, MM

Economics and business

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Bhimo Rizky Samudro, S.E., M.Si., PhD

Political Economics, Institutional Economics

Universitas Sebelas Maret **Indonesia**

Mrs. Dewita Puspawati, S.E., Ak., M.Sc.

Accounting

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Edy Purwo Saputro, M.Si

Management

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Ihwan Susila, Ph.D

Marketing, Human resources management

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mr Imron Rosyadi

Finance

Universitas Muhammadiyah Surakarta **Indonesia**

Imronudin, Ph.D

Financial management

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Jaka Sriyana., Ph.D

Finanance management, economic growth, fiscal policy and taxation, public finance, corruption

Universitas Islam Indonesia **Indonesia**

Mr Jati Waskito

Human Resource Management

Universitas Muhammadiyah Surakarta **Indonesia**

Dr Kussudyarsana

Management

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Lilies Setiartiti, M.Si

Monetary policy, Banking & Finance

Universitas Jenderal Soedirman **Indonesia**

Listya Endang Artiani, SE., M.Si

Economic modelling, Applied econometrics, Monetary economics, Macroeconomics, Impact Evaluation

Universitas Islam Indonesia **Indonesia**

Mohammad Bekti Hendrie Anto, SE., M.Sc

Islamic business and economics, islamic economics
Universitas Islam Indonesia **Indonesia**

Muhammad Anas, S.E, M.Si

Fiscal Policy, Macroeconomics
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Muhammad Sholahuddin, S.E., M.Si.

Business Coaching, Islamic Economics
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. Muhammad Wabyuddin

Economics, Marketing
Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Muzakar Isa, M.Si

SME, disaster management, environmental economics
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mr. Novel Idris Abas

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Sany Dwita, SE, MSi, PhD, Ak, CA.

Behavioral accounting
Universitas Negeri Padang (UNP) **Indonesia**

Shanty Oktavilia, SE., M.Si

Economics, economic policy analysis, econometric analysis, macroeconomics
Universitas Negeri Semarang (UNNES) **Indonesia**

Mr Sidiq Permono

SME, Management
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Sigit Hermawan

financial accounting, management accounting, financial reporting, business ethics, intellectual capital
Universitas Muhammadiyah Sidoarjo (UMSIDA) **Indonesia**

Siti Aisyah, M.Si

Development economics, food security
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr Soepatini

Management, Marketing, Entrepreneurship
Universitas Muhammadiyah Surakarta **Indonesia**

Prof. Dr. Sucibatiningsih Dian Wisika Prajanti, M.Si

Agriculture management
Universitas Negeri Semarang **Indonesia**

Dr. Syamsudin, MM

SME, Management
Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Tri Jatmiko Wahyu.P, SE., M. Si, Akt., Ph.D

Public accounting
Universitas Diponegoro **Indonesia**

Rangga Handika, Ph.D

Financial modelling
Tokyo International University **Japan**

ICHWB Technical Experts

Reece Hinchcliff, Ph.D.

Health service accreditation programs, knowledge translation amongst healthcare professionals, Quality and safety capacity building programs

University of Technology Sydney (UTS) **Australia**

Sarab Taki, Ph.D

Prevention of childhood obesity

Early Prevention of Obesity in Childhood, University of Sidney **Australia**

Agus Sudaryanto

Universitas Muhammadiyah Surakarta **Indonesia**

Ambarwati

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Arum Pratiwi

Nursing, Health

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr.Sc.Hum. Budi Aji, S.KM., M.Sc

Public Health, Health Policy

Universitas Jenderal Soedirman **Indonesia**

dr. Burbannudin, M.MedEd

family medicine

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

dr. Dodik Nursanto, M.Biomed.

Anatomy

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mrs. Dwi Linna Suswardany, M.PH

Epidemiology, Health Service Policy and Management, Traditional Complementary Alternative Medicine in the perspective of public health

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. E.M. Sutrisna

Pharmacology

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Gemala Anjani, SP, MSi., Ph.D

Food and Nutrition Science

Universitas Diponegoro **Indonesia**

Ms Kusuma Estu Werdani

Public Health

Universitas Muhammadiyah Surakarta **Indonesia**

Mrs. Luluk Ria Rakha

nutrition, community nutrition

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Morita Sari

Public health, Dental public health, Health promotion, Health education

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr Mutalazimah

Biostatistics and epidemiology

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mr Noor Alis Setiyadi

Public Health

Public health department, Faculty of Health Science, Universitas Muhammadiyah Surakarta **Indonesia**

Nur Lathifah Mardiyati, S.Gz., M.S

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

dr. Ratih K, Sp KK

biomedicine, dermato & venerology

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

dr. Riana Rahmawati, M.Kes, Ph.D

Clinical Pharmacology

Universitas Islam Indonesia **Indonesia**

S.TP, M.P Rusdin Rauf

Food Science

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Setyaningrum Rahmawaty

Nutrition and Dietetics

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Siti Helmyati, DCN, M.Kes

Community Nutrition

Universitas Gadjah Mada (UGM) **Indonesia**

Dr Supratman

Nursing, Community Health, Quality of Health Service

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Titik Respati, drg. M.Sc.PH

Public Health

Universitas Islam Bandung **Indonesia**

Dr. Umi Budi Rabayu

maternal and child health

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Winarsih Nur Ambarwati

Universitas Muhammadiyah Surakarta **Indonesia**

Assoc. Prof. Dr Saira Mebnaz

Health Sciences

Jawaharlal Nehru Medical College, Aligarh Muslim University **India**

Dr Maysaa Saleh

Medicinal Chemistry

Faculty of Pharmacy, Isra University **Jordan**

Sueppong Gowachirapant, Ph.D.

Micronutrients (Iodine, Iron), Maternal and child nutrition

Institute of Nutrition, Mahidol University (INMU) **Thailand**

Me Netsai Bianca Gwelo

Healthcare, school health, health promotion

University of Kwazulu Natal **South Africa**

ICIMS Technical Experts

Agus Wijayanto, Ph.D

Interlanguage, pragmatics, TEFL, sociolinguistics

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Anam Sutopo, S.Pd., M.Hum

English translation, English teaching

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Ari Anshori

Al-Islam and Muhammadiyah Education

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Azhar Alam, S.E., M.SEI

Islamic Education

Universitas Muhammadiyah Surakarta **Indonesia**

Prof. Dr. Bambang Setiaji

Islamic Banking

Universitas Muhammadiyah Kalimantan Timur (UMKT) **Indonesia**

Dodi Afianto, S.Ag., M.Pd.I.

Islamic and muhammadiyah studies

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. Endang Fauziati

Second language acquisition, EFL, Interlanguage Studies, TEFL

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Erham Budi Wiranto, M.A.

Multicultural Education, Religious Studies, Philosophy

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. Harun Joko Prayitno

Education, Pragmatic, Social and Humaniora

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. M.A. Fattah Santoso

Education, Islamic Philoshopy, Civil Society

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Sekar Ayu Aryani, M.Ag.

Religion psychology

Fakultas Ushuluddin, UIN Sunan Kalijaga **Indonesia**

Dr. Sofyan Anif

Manajemen Pendidikan, Administrasi Pendidikan, Inovasi Pendidikan

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Suwinarno, S.Ag., M.PI.

Pemikiran Islam

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Syamsul Hidayat

Ilmu al-Quran dan Tafsir, Pemikiran Islam, Kemuhammadiyahan

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Taufik

Social-Educational, Psychology, Islamic Psychology

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Tri Santoso, S.Pd., M.Pd.

Sociolinguistics, Ecolinguistics, Educational Philosophy

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Waston

Philosophy

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Assoc. Prof. Dr. Asmawati Subid

Islamic Education, Teaching and Learning, Values Education

Universiti Putra Malaysia (UPM) **Malaysia**

Assoc. Prof. Dr. Mohammad Reevany Bustami

Cross-cultural issues, Ethnic Studies, Immigration, Malaysian-Indonesia cultural studies

CenPRIS, Universiti Sains Malaysia (USM) **Malaysia**

Assoc. Prof. Dr. Khairudin Aljunied

Intellectual History, Religious Cosmopolitanism, Social Movements, Southeast Asia

National University of Singapore (NUS) **Singapore**

ICGDM Technical Experts

Prof Raju Sarkar

geotechnology, soil mechanic, disaster management

Department of Civil Engineering and Architecture, College of Science and Technology, Royal University of Bhutan, **Bhutan**

Aditya Saputra, S. Si., M. Sc, Ph.D

Geo-Information for disaster risk management

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Andri NR Mardiah, Ph.D.

Disaster management, environmental policy, development planning

BAPPENAS (Indonesian Ministry of National Development Planning), **Indonesia**

Berton Panjaitan, Ph.D.

Disaster Management

National Disaster Management Authority of Indonesia, **Indonesia**

Dr. Choirul Amin, S.Si, MM

Human Geography, Regional Planning, Migration

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Mr Danardono, S.Si., M.Sc.

Hidrology, Geomorfology Karst

Universitas Muhammadiyah Surakarta, **Indonesia**

Dr. Ir. Dewi Retna Indrawati, M.P.

Forestry sociology

Watershed Management Technology Center (WMTC), **Indonesia**

Dr. rer. nat. Djati Mardiatno

Disaster risk reduction

Geography Faculty, Universitas Gadjah Mada, **Indonesia**

Dr. Ir. Endang Savitri, M. Sc

Land and water conservation

Watershed Management Technology Center (WMTC), **Indonesia**

Dr. rer. nat Herlan Darmawan

Geophysics, Volcanology

Universitas Gadjah Mada, **Indonesia**

Iqbal Putut Ash Siddiq, Ph.D.

GIS

Geography Department, Indonesia University, **Indonesia**

Dr. Irfan Budi Pramono

watershed hydrology

Watershed Management Technology Center (WMTC), **Indonesia**

Dr. Irwan Meilano

Geophysics, GPS observation, disaster and mitigation

Institut Teknologi Bandung (ITB), **Indonesia**

Jumadi, S.Si, M.Sc.

GIS, Agent-based Modelling, Disaster Management

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof Junun Sartohadi

Geomorphology, physical geography, soil, disaster management

Faculty of Agriculture, Universitas Gadjah Mada, Yogyakarta, **Indonesia**

Dr Kuswaji Dwi Priyono

Landslide hazard and physical geomorphology

Geography Faculty, Universitas Muhammadiyah Surakarta, **Indonesia**

M Iqbal Taufiqurrahman Sunariya, S.Si., M.Sc.

Spasial Planning, Hidrology, Meteorologi, Klimatologi, Geomorfology, Environment Assesment

Universitas Muhammadiyah Surakarta, **Indonesia**

Prof. Dr. Muhammad Baiquini

Regional Planning and urban studies

Geography Faculty, Universitas Gadjah Mada, **Indonesia**

Dr. Muhammad Musiyam

Regional Geography

Universitas Muhammadiyah Surakarta, **Indonesia**

Nunung Puji Nugroho, S. Hut, M. Sc., Ph.D.

Remote sensing

Watershed Management Technology Center (WMTC), **Indonesia**

Prof. Dr. Rijanta, M.Sc.

Regional Planning and urban studies

Geography Faculty, Universitas Gadjah Mada, **Indonesia**

Dr. Sukamdi, M.Sc.

Human Geography, Demography, and population mobility

Geography Faculty, Universitas Gadjah Mada, **Indonesia**

Suryani Eka Wijaya

Litbang Bappeda NTB, **Indonesia**

Syamsul Bachri, Ph.D.

Watershed management

Department of Geography, State University of Malang, **Indonesia**

Dr. Ir. Tyas Mutiara Basuki, M.Sc.

Watershed Management, Remote Sensing for Forest and Land Assessment

Watershed Management Technology Center (WMTC), **Indonesia**

Vidya Nabdhiyatul Fikriyah, S.Si., M.Sc.

GIS and Remote Sensing for Natural Resources

Universitas Muhammadiyah Surakarta, **Indonesia**

Kapil Gosh, Ph.D.

geo-environmental hazard and disaster management

Diamond Harbour Women's University, West Bengal India, **India**

Prof Christopher Gomez

Physical geomorphology, Volcanology, Disaster management

Maritime Sciences, Kobe University, Kobe, **Japan**

Japan

Mizan Bisri, Ph.D.

United Nations University, **Japan**

Riyanti Djalante, Ph.D.

Human geography, Disaster risk reduction

United Nation University, **Japan**

Assoc Prof Dr Anderson Villa, MHSS, PhD

Urban planning and development, Population studies, Migration

Ateneo de Davao University, **Philippines**

Prof Jia-Jyun Dong

Slope instability, landslide hazard and risk assessment

Graduate Institute of Applied Geology, National Central University, **Taiwan**

ICOLAE Technical Experts

Prof. Dr. Li Chun Yan

Exercise Intervention and Health Promotion, Sport Physiology

Wuhan Sports University (China), **China**

Agam Akhmad Syaukani, S.Si, M.Ed.

Physical and sport education

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Agus Wijayanto, Ph.D

Interlanguage, pragmatics, TEFL, sociolinguistics

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Anam Sutopo, S.Pd., M.Hum

English translation, English teaching

Universitas Muhammadiyah Surakarta, **Indonesia**

Azhar Alam, S.E., M.SEI

Islamic Education

Universitas Muhammadiyah Surakarta, **Indonesia**

Ir. Bana Handaga, MT, PhD

Multi media and information technology in technology

Universitas Muhammadiyah Surakarta, **Indonesia**

Dr. Choiriyah Widayasari, M.Psi

Early child education, Child psychology

Universitas Muhammadiyah Surakarta, **Indonesia**

Dr. Darsinah, M.Si

Early Childhood Learning

Universitas Muhammadiyah Surakarta, **Indonesia**

Delita Sartika, S.S., M.ITS., Ph.D

Universitas Jambi, **Indonesia**

Desvalini Anwar, S.S., M.Hum, Ph.D

Universitas Negeri Padang, **Indonesia**

Dr.Phil. Dewi Candraningrum, S.Pd, M.Ed

Universitas Muhammadiyah Surakarta, **Indonesia**

Donny Wira Yudha Kusuma, Ph.D

Universitas Negeri Semarang, **Indonesia**

Prof. Dr. Endang Fauziati

Second language acquisition, EFL, Interlanguage Studies, TEFL

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Endang Setyaningsih, S.Si., M.Si.

Biology, biology education

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. Harsono, MS

Accounting, Accounting education

Universitas Muhammadiyah Surakarta **Indonesia**

Prof. Dr. Harun Joko Prayitno

Education, Pragmatic, Social and Humaniora

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Hepy Adityarini, S.Pd, M.A, Ph.D

Universitas Muhammadiyah Surakarta **Indonesia**

Drs. Heri Yanto, MBA, PhD

Behavioral accounting, Accounting Education, Environmental Accounting

Universitas Negeri Semarang **Indonesia**

Irma Yuliana, S.T., M.M, M.Eng

Universitas Muhammadiyah Surakarta **Indonesia**

Koesoemo Ratih, S.Pd, M.Hum, Ph.D.

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. M. Thoyibi, MS

Universitas Muhammadiyah Surakarta **Indonesia**

Ma'as Shobirin, M.Pd

Madrasah Education, Primary Education, Earth Sciences Education

Universitas Wahid Hasyim Semarang **Indonesia**

Dr. Malikatul Laila, M.Hum

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Maryadi

Education Management, Philosophy of Education, Sociology of Education

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Dr. Mauly Halwat Hikmat, M.Hum

Universitas Muhammadiyah Surakarta **Indonesia**

Muamaroh , M.Hum, Ph.D

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Muhammad Taufik Hidayat, M.Pd

Primary education, reproductive health, perception

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Muhammad Fahmi Johan Syah, S.Pd., M.Pd.

Accounting, Accounting education

Universitas Muhammadiyah Surakarta **Indonesia**

Mr. Naufal Ishartono

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mrs. Nur Amalia, S.S., M.Ed

Education, Primary Teaching, IT for learning, Literacy

Universitas Muhammadiyah Surakarta **Indonesia**

Nur Subekti, S.Pd., M.Or.

Physical Education

Universitas Muhammadiyah Surakarta **Indonesia**

Pungki Indarto, S.Pd., M.Or

Physical Education

Universitas Muhammadiyah Surakarta **Indonesia**

Putri Agustina, S.Pd., M.Pd

Universitas Muhammadiyah Surakarta **Indonesia**

Dr. Rony Syaifullah, M.Pd

Pencak Silat, Physical Education, Physical Coaching

Universitas Sebelas Maret **Indonesia**

Sri Rejeki, M.Pd., MSc

Universitas Muhammadiyah Surakarta **Indonesia**

Dra. Suparti, M.Si

Universitas Muhammadiyah Surakarta **Indonesia**

Ms. Susiati

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Prof. Dr. Sutama

Pengelolaan Pembelajaran Matematika

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Wibowo Heru Prasetyo, S.Pd., M.Pd

Civic education

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Yeny Prastiwi, SPd., M.Hum., Ph.D

TESOL, English for Elementary School, Teaching English, CDA Literature

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mr. Yunus Aris Wibowo

Universitas Muhammadiyah Surakarta (UMS) **Indonesia**

Mr. Yunus Sulistyono, S.S., M.A.

Leiden University **Indonesia**

Zuli Nuraeni, M.Pd

Mathematics Education, Primary Education

STKIP Muhammadiyah Kuningan **Indonesia**

Dr. Gautam Kumar Jha

Islamisation of Indonesian Polity, Sufism and Shiva Cult in Indonesia, Indonesian Folklores

Jawaharlal Nehru University **India**

Prof. Dr. Atsushi Murai

educational research, Education, Education on school subjects and activities
Kanazawa University **Japan**

Prof. Dr. Keiko Takiguchi

Text Comprehension, Situation Model, Developmental Disorder, Early Childhood Education/Elementary School Cooperation, Teacher Training, Connecting Young Children with Nature
Kanazawa University **Japan**

Prof. Dr. Michio Matsubara

Science Education
Kanazawa University **Japan**

Assoc. Prof. Dr. Takahiro Kato

Educational technology, Science education, Education
Kanazawa University **Japan**

Assoc. Prof. Dr. Abdul Halim Ali

Literature, Literary Theory and Criticism, Malay Literature, poetry and teaching Malay Literature
Universiti Pendidikan Sultan Idris (UPSI) **Malaysia**

Assoc. Prof. Major Dr. Haji Yabu Don

Educational technology, Science education, Education
Universiti Utara Malaysia (UUM) **Malaysia**

Assoc. Prof. Dr. Melor Md Yunus

Technology-enhanced Language Learning, CALLICT in Language Education, Teaching English as a Second Language, Writing Skills
Universiti Kebangsaan Malaysia (UKM) **Malaysia**

Assoc. Prof. Dr. Mohd Zailani Mohd Yusof

Ethics and Moral Education, Religious and Moral Education, Religious Education
Universiti Utara Malaysia (UUM) **Malaysia**

Prof. Dr. Nor Aishah Buang

Business and Entrepreneurship Education
Universiti Kebangsaan Malaysia **Malaysia**

ICB-Pharma Technical Experts

Dr. Adam Hermawan

Pharmaceutical, Biotechnology, Oncology, Molecular Biology
Universitas Gadjah Mada (UGM), **Indonesia**

Dr. Agustono Wibowo

Synthesis and Natural Product Chemistry
Universiti Teknologi MARA (UiTM), Shah Alam, **Indonesia**

Mr. Andi Suhendi

Drug discovery, Pharmaceutical Analysis, Herbal Medicine
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Anita Sukmawati

Drug Delivery, Tissue Engineering, Biomaterials, Stem Cell, Pharmaceutical technology
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Mrs. Arifab Sri Wahyuni

Pharmacology
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Azis Saifudin

Pharmacognosy, Pharmacology, Natural Product Chemistry, Stereochemistry, Quality Control of Herbal Medicine

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Dr. Bambang Kuswandi

Analytical Chemistry

Universitas Jember (UNEJ), **Indonesia**

Broto Santoso

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Cita Muflibah

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dedi Hanwar

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Diana Laila Ramatillab

Clinical Pharmacy

Universitas 17 Agustus 1945, Jakarta, **Indonesia**

Prof. Dr. Edy Meiyanto

Pharmaceutical chemistry, Cancer targeted therapy

Universitas Gadjah Mada (UGM), **Indonesia**

Dr. Erindyah Retno Wikantyasnning

Pharmaceutical technology, Nanomedicine

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Dr. Erizal Zaini

Pharmaceutics, solid state characterization

Universitas Andalas, **Indonesia**

Ms. Febri Wulandari

Cancer chemoprevention

Universitas Gadjah Mada (UGM), **Indonesia**

Dr. Haryoto

Natural products

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Hidayah Karuniaiwati

Clinical Pharmacy

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Ika Trisharyanti

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Maryati

Molecular Biology, Biochemistry

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Muhammad Aswad

Chemical Biology, Organic Synthesis, Photoaffinity Labeling, Medicinal Chemistry, Drug Discovery

Universitas Hasanuddin, **Indonesia**

Prof. Dr. Muhammad Da'i

Pharmacy, Drug development

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Muthi Ikawati

Immunology, Molecular Pathogenesis, Molecular Biology, Biotechnology
Universitas Gadjah Mada (UGM), **Indonesia**

Dr. Peni Indrayudha

Protein Pharmaceutics
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Riris Istighfari Jenie

Biochemistry, molecular biology, molecular signal transduction
Universitas Gadjah Mada (UGM), **Indonesia**

Prof. Dr. Sahidin

Natural Products Chemistry
Haluoleo University, **Indonesia**

Mrs. Tanti Azizah Sujono

Pharmacology
Universitas Muhammadiyah Surakarta, **Indonesia**

Mrs. Tri Yulianti

Pharmacology, clinical pharmacy
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Wahyu Utami

Pharmacy
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Prof. Dr. Yana Maolana Syah

Chemistry
Institut Teknologi Bandung (ITB), **Indonesia**

Dr. Zakky Cholisoh

pharmacology, clinical pharmacy, pharmacy practice
Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

Dr. Atta Abbas Naqvi

Pharmacy Practice
Universiti Sains Malaysia (USM), **Malaysia**

Prof. Dr. Khong Heng Yen

Natural Products Chemistry
Universiti Teknologi MARA (UiTM), Sarawak, **Malaysia**

Prof. Dr. Norizan Abmat

Phytochemistry, Natural Product Chemistry, Bio-activity of compounds
Universiti Teknologi MARA (UiTM), Shah Alam, **Malaysia**

Dr. Wan Isma Hanisa

complementary and alternative medicine, thalassaemia
Universiti Teknologi MARA (UiTM), **Malaysia**

Dr. Fahad Saleem

Pharmacy Practice
University of Balochistan, Quetta, **Pakistan**

Dr. Walaa al Badr

Pharmacy
Jeddah University, **Saudi Arabia**

MEST Technical Experts

Dr Abdul Latif Bin Mohd Tobi

Petronas, **Malaysia**

(Mechanical engineering, computational mechanics, Finite Element Analysis, Fatigue & Fracture)

Dr Affero Ismail

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Engineering education, Technical and vocational eduation)

Assoc. Prof. Dr. Agus Dwi Anggono

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

(Finite element method, Simulation, Design and Modeling, Manufacturing)

Dr Ahmad Salabuddin Mohd Harituddin

Universiti Pertanian Malaysia, **Malaysia**

(Mechanical engineering, Dynamics, Control, Orbital Mechanics)

Assoc. Prof. Dr. Al Emran Bin Ismail

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Computational fracture mechanics, Fatigue and Fracture, Crashworthiness, Impact Mechanics)

Mrs Anis Siti Nurrobbkayati

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**

(Industrial Engineering, Manufacturing System)

Ms. Asslia Jobar Latipah

Universitas Muhammadiyah Kalimantan Timur (UMKT), **Indonesia**

(Informatics, Artificial Intelligence)

Mr Atheer Hashim

Al-Qasim Green University Iraq, **Iraq**

(Mechanical engineering, Meterial engineering)

Mr. Binyamin

Universitas Muhammadiyah Kalimantan Timur (UMKT), **Indonesia**

(Mechanical engineering, manufacturing, design, finite element)

Mr. Chua Huang Shen

KDU University College, **Malaysia**

(Sustainable Renewable Energy)

Dr. Dafit Feriyanto

Universiti Tun Hussein Onn Malaysia , **Malaysia**

(Mechanical Engineering, Advance materials, Manufacturing)

Ms Dwi Murdaningsih Pangestuty

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**

(Artificial Intelligence, Machine Learning, Digital Image Processing)

Dr. Eliza Binti M. Yusup

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Mechanical engineering, Biomechanics)

Dr Fetra Venny Riza

Universitas Muhammadiyah Sumatera Utara, **Indonesia**

(civil engineering, earth brick, green material)

Mrs Fitriyati Agustina

Universitas Muhammadiyah Kalimantan Timur (UMKT), **Indonesia**

(Civil engineering)

Dr Hanida Abdul Aziz

Universiti Malaysia Pahang, **Malaysia**
(Engineering Technology, Process safety)

Dr. Hasyamuddin Bin Othman

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Engineering education, Technical and vocational eduation)

Dr. Idris Harta

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**
(Mathematics Education, Science in Education)

Dr. Ishkrizat Bin Taib

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical engineering, biomechanics, Computational fluid dynamics)

Mr Isnaini Zulkarnain

Universitas Muhammadiyah Kalimantan Timur (UMKT), **Indonesia**
(Civil engineering, Construction Management, Risk management)

Assoc. Prof. Dr. Izzuddin Bin Zaman @ Bujang

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Polymer composites, Graphene, Structural dynamics, Finite element analysis)

Dr Josef Hadipramana

University of Muhammadiyah Sumatera Utara, **Indonesia**
(Structures, Green Materials Technology, Impact)

Dr. Kamarul-Azhar Bin Kamarudin

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Impact Engineering, Biodiesel, Combustion, Energy)

Dr. Lee Woon Kiow

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical Engineering, Machining process, Machine Vision)

Dr. Marwan Effendy

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**
(Computational Fluid Dynamics)

Dr. Mochamad Solikin

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**
(Civil engineering, High strength-high performance concrete, Structural building design)

Dr Mohamad Aizat Abas

Universiti Sains Malaysia, **Malaysia**
(Computational Fluid Dynamics, Electronic Packaging, Artificial Heart Valve, Aneurysm)

Mr Mohamad Ridzuan Bin Mohamad Kamal

Universiti Teknikal Malaysia Melaka, **Malaysia**
(Mechanical engineering, Mold and die, Metal casting)

Assoc Prof Dr Mohammad Sukri Bin Mustapa

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical engineering, Structural Integrity, Fatigue Failure, Fatigue Crack Growth, Fracture Mechanics)

Dr. Mohammad Zulafif Bin Rahim

Universiti Tun Hussein Onn Malaysia, **Malaysia**
(Mechanical engineering, Advanced Machining, Machine Design, Aircraft Manufacturing)

Dr. MOHD AIZUDIN BIN ABD AZIZ

Universiti Malaysia Pahang, **Malaysia**

(Environment technology, Solid waste separation)

Dr MOHD ERFY ISMAIL

Universiti Tun Hussein Onn Malaysia, **Malaysia**

(Science education, Technical & Vocational Education and Training)

Dr Mohd Fairus Mohd Yasin

Universiti Teknologi Malaysia, **Malaysia**

(Mechanical engineering, Combustion, Sprau, Biodiesel)

Ts. Dr. Mohd Rasidi Bin Ibrahim

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Precision and Micro Manufacturing, Vibration and Ultrasonic Assisted Machining, Design and Develop Machine Building on Finite Element Analysis (FEA), Laser Assisted Machining.)

Dr. Mohd Sallehuddin Bin Yusof

Tensei Innovative Solutions, Malaysia, **Malaysia**

(Printing Technologies, Printing Electronics, Green Technology, Printing for Biomedical Applications)

Dr. Mohd Yazid Bin Abu

Universiti Malaysia Pahang, **Malaysia**

(Remanufacturing, Advanced manufacturing process, pattern recognition, optimization)

Dr. Muhammad Aizzat Bin Zakaria

Universiti Malaysia Pahang, **Malaysia**

(Autonomous Vehicle, Robotics, Mechatronics System, Rehabilitation Robotics)

Dr Muhammad Fairuz Remeli

Universiti Teknologi MARA Malaysia, **Malaysia**

(Mechanical engineering, Energy conversion)

Mr Muhammad Noor Asnan

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**

(Civil engineering, Structures, Concrete)

Mr. NAGENTRAU A/L MUNIANDY

School of Engineering, KDU University College, Shah Alam, Malaysia , **Malaysia**

(Mechanics of material, finite element method, hardfacing)

Dr. NORAFZANIZAM BIN SAMIRAN

UTHM, **Malaysia**

(Mechanical Engineering)

Dr Nor Azali Bin Azmir

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

Dr. Nor Dalila Nor Affandi

Universiti Teknologi Mara (UiTM), **Malaysia**

(Mechanical engineering, Nanofibres)

Dr. Norfazillah Binti Talib

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Manufacturing Engineering, Environmentally Sustainable Manufacturing)

Mrs NUR HASALLI IBRAHIM

KDU UNIVERSITY COLLEGE, **Malaysia**

(Mechanical Engineering, Finite Element Method, Thermofluids)

Mr Pitoyo

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**
(Civil engineering, Transportation system)

Mr Prathabram Muniandy

University Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(mechanical engineering)

Dr Praveena Nair

KDU University College, Glenmarie, **Malaysia**
(Mechanical Engineering, Material Engineering)

Dr Rambuzaini Bin Abd Rahman

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical engineering, Control system, Control fluid power system)

Mr Rofilde Hasudungan

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**
(DNA Computing, Combination Problem)

Mr Rusandi Noor

Universitas Muhammadiyah Kalimantan Timur , **Indonesia**
(Civil Engineering, Bridge Engieering, Building Engineering, Road pavement)

Dr. Said Bin Ahmad

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Materials Performance and Processes Analysis, Manufacturing Engineering)

Assoc. Prof. Dr. Saifulnizan Bin Jamian

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(finite element method, computational mechanics, functionally graded materials, smart materials, shape memory alloy)

Assoc Prof Dr Salihatun Binti Md Salleh

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical engineering, Parametric Modelling, Control system)

Dr. Ir. Sarjito

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**
(Mechanical engineering, comptational fluid dynamics)

Dr. Shahmir Hayyan Bin Sanusi

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Contact Mechanics, Failure Prediction, Defect Detection, Mechanical Engineering of Railways, Wear Tribology)

Dr. Siti Juita Mastura Binti Mohd Saleh

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Aerospace engineering, Aircraft Structure, Aircraft Design, Aeroelasticity, Composite, Aerostructure)

Assoc Prof Dr. SIVAKUMARA/L DHAR MALINGAM

Universiti Teknikal Malaysia Melaka, **Malaysia**
(Hybrid Composite, Fiber Metal Lamine, Natural Fiber, Materials Characterizations, Mechanics of Materials)

Dr Sri Yulis Binti M Amin

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**
(Mechanical engineering, powder metallurgy, hardmetal)

Dr Supriyono

Universiti Muhammadiyah Surakarta (UMS), **Indonesia**

(Mechanical engineering, Computational Solid Mechanics, Boundary Element Method)

Dr Tatang Mulyana

Telkom University, **Indonesia**

(Electrical Engineering, Power Engineering)

Assoc. Prof. Dr. Tri Widodo Besar Riyadi

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

(Material engineering and science)

Assoc. Prof. Dr. Wahyu Mulyo Utomo

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Electrical Power Engineering)

Assoc. Prof. Dr. Waluyo Adi Siswanto

Universitas Muhammadiyah Surakarta (UMS), **Indonesia**

(Mechanical engineering, computational mechanics, vibration and dynamics)

Assoc Prof Dr Wan Fauziah Wan Yusoff

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Engineering technology, Job satisfaction)

Mr Wawan Joko Pranoto

Universitas Muhammadiyah Kalimantan Timur, **Indonesia**

(Informatics)

Dr Zainon Mat Sharif

Universiti Tenaga Nasional Malaysia, **Malaysia**

(Training and development, engineering education)

Dr Zaleha Binti Mohamad

Universiti Tun Hussein Onn Malaysia (UTHM), **Malaysia**

(Mechanical engineering, structural monitoring system)

Table of Contents

Welcome Note from Rector Universitas Muhammadiyah Surakarta	iii
Message from the Chairman ISETH2019	iv
ISETH2019 Committee	v
Main Keynote Speakers	vii
Contributing Keynote Speakers and Facilitators	x
ISETH 2019 Technical Experts	xv
Table of Contents	xxxv

International Conference of Islamic and Indigenous Psychology (ICIIP)

Defining <i>Tabayyun</i> as a Psychological Attribute: Study of Thematical Exploration Aryo Bima Fathoni, Azti Verina, Bilqisthi Rahmah, Nida Paiqotul, Zulmi Ramdani	3
Understanding of Teachers Related to the Application of Character Values in Children of Kindergarten Age Radhiya Bustan, Liana Mailani, Yuliana Mukti.....	18
Psychological Dynamics in the Creative Process of Copywriters in the making of Advertisements Klaudia Mustika Wungu, Andik Matulessy, Suryanto.....	35
Toilet Training In Preschool Ambarwati Wijayaningsih, Susatyo Yuwono	42
The Influence of Cooperative Game Towards Teamwork of 5th-grade Students of Elementary Schools in Surakarta Arindiar Kusuma Cahayani, Muhammad Bagus Sudinadji, Wiwien Dinar Pratisti.....	52
The Effect of Puppet Storytelling to Self Confidence in Elementary School Student Desy Purnama Sari, Hanun Nizar Izdihari Imron, Rezkika Noviyanti, Wiwien Dinar Pratisti	60
The Effects of Puppet Games from Cassava Leaves on the Self-Efficacy of Elementary School Students Annisa Dianesti Dewi, Afiffa Halila N., Aditya Ilham Firmansyah, Wisnu Sri Hertinjung, Wiwin Dinar Pratisti	69
The Influence of Slamet Riyadi Statue Games on Interactions with Peer Friends of Elementary School Students Adwi Masesa, Niko Indrawan, Yusril Aryo Dyatmiko, Muhammad Bagus Sudinadji, Wiwien Dinar Pratisti.....	80
The Effect of Making People's Puppets from Cassava Leaves on Prosocial Behavior in Students 5-6 Elementary Schools in Surakarta Wahyu Widayanti, Nur Laili Mufidah, Yumna Tibyani, Wiwien Dinar Pratisti	92

Votingbehavior as Political Participation: The Role of Trust Inpolitical Candidate and Personal Affect

- Mochammad Sa'id, Vonny Anggraeni Prasetyo, Tutut Chusniyah, Rakhmaditya Dewi Noorizki 100

Integrated Waste Management in Supporting Awareness of Healthy Clean Communities in the Garut City Area

- Yunita Anggraeni, Retno Hanggarani Ninin, Karolina Lamtiur Dalimunthe, Noer Fauzi Rachman 107

Resilience Of Tenth Grade Students Of Boarding School SMA IT Nur Hidayah Sukoharjo

- Anisah Khusnul Khotimah, Kumaidi 115

Coping Strategies of Family Caregiver in The Treatment of Mental Disorders

- Fitriana Dwi Hastuti, Santi Sulandari 123

Millennial Life Satisfaction in Terms of Syukr (Gratitude) and Sabr (Patience)

- Farra Anisa Rahmania, Ahmad Rusdi, Endah Puspita Sari 133

Religious Coping in the Islamic Approach as an Effort to Resolve PTSD in Survivors of Natural Disasters

- Kahfi Hizbullah, Indahria Sulistyarini, Libbie Annatagia 140

Muhasabah as a Regulative Effort for Digital Natives who Identified Fear of Missing Out (FoMO)

- Zunea Farizka Azyza Harro Uasni, Qurotul Uyun, Libbie Annatagia 147

Tadabbur Al-Quran to Decrease Anxiety Among Students Facing National Examination

- Hasna Fadilla Sustring, Hariz Enggar Wijaya 156

Husnudzan and Anxiety in Students Dealing with National Examination

- Nur Baity Ulya Shabrina, Mira Aliza Rachmawati 164

Social Media Literacy Training for Preventing Cyberbullying Intention Among Senior High School Students

- Rahmawati Prihastuty, Yogi Swaraswati, Dyah Ayu Rahmawati, Siti Nur Dzakiyyatul Khasanah 172

Mental Health Literacy from Moslem Women Perspective

- Ade Lulu Fauziah, Anita Novianty 181

The Mediating Role Of Risk Perception In The Association Between Climate Change Awareness And Mitigation Effort On Riau Haze

- Nurul Hidayati, Jilan Hanifah, Nurul Aiyuda, Indri Meilani Yunas 189

Fasting Effects on Emotion Changes – A Multi-Level Analyses

- Khairul Anwar Mastor, Kenneth Locke, Hasnan Kasan 200

The Effect of Roleplay to Increase Empathy Toward Students with Disruptive Classroom Behavior

- Yoan Triclylia Dewi, Wiwien Dinar Pratisti, Juliani Prasetyaningrum 210

Risk Perception and Helplessness in Mitigation Efforts to Impact Haze in Riau

- Ira Kusumawati, Ismi Nur Mawahdah Ihsani, Nurul Aiyuda 220

Healthy and Safe Internet Psychoeducation (INSAN) to Increase Parent's Supervision on Using Internet for Children in Yogyakarta

Devi Noviyanti, Mira Aliza Rachmawati 227

The Implementation of Occupational Health and Safety Management System (OHS Management System) to Improve Human Resource Development Performance

Hardani Widhiastuti, Gusti Yuli Asih, Yudi Kurniawan..... 236

The Hate Speech Behavior of Teenagers on Social Media Instagram

Firmina Astuti, Partini..... 252

The Effectiveness of Mentoring Program Towards Sunnah Worship Rituals of Muslim Students from Faculty of Psychology, UMS

Siti Rabiatul Adawiyah Idris, Arindiar Kusuma Cahayani, Setia Asyanti..... 260

Principal as A Determinant of Student Disciplinary Behavior

Ratri Avisa Melliferina, Putri Rachmah Irfa Rani, Eternity Chitra Adelweis..... 272

The Relationship Between Illness Acceptance, Cancer-Related Complaints and Psychological Distresses Among Malaysian Cancer Patients

Mahadir Ahmad, Yoke Yong Chen, Fuad Bin Ismail..... 276

Surrender to God and Parenting Stress among Mothers with Autistic Children

Resnia Novitasari, Farisha Silviana Yasmin, Diah Aulia..... 288

Respectful Attitude on Adolescents to Elderly

Alisa Putri Utari, Santi Sulandari 296

International Conference on Economics and Business Studies (ICOEBS)

A Modeling of Solutions and Strategy for Student Entrepreneurship Development (Case: Student Entrepreneurship Program at Medan)

Enny Segarahati Barus, Muslim Marpaung..... 305

Problematic Situation Analysis of the Stages of Human Resources Management by Applying the Principles of Good Governance in Private University at LLDikti Region III Jakarta

Muasisah Jadiyah, Suratno 320

Optimization of Stock Diversification with Quadratic Programming Method Using Lingo

Alam Avrianto, Deri Alan Kurniawan, Irfan Rizki Gumilar, Hilman Rismanto 328

Variables for Determining Manager Attitudes in Debt Funding: Study on SME in Sleman Yogyakarta

Nilmawati, Shinta Heru Satoto, Hasa Nurrohim KP 336

Analysis of Entrepreneurship Potential in Batak Women for Developing Toba Lake Tourism

Ria Manurung, Rizabuana Ismail, Hadriana Marhaeni Munthe 348

The Role of Environmental Management and Green Innovation (case study of BUMDES (Village Business Agency))

Fajri Aniva Gustin, Sofyan Ashari Nur, Ryan Yunianwan..... 355

Factors Affecting Tourists' Destination Patronizing Intentions Toward Mount Papandayan Tourism, Indonesia	
Dini Turipanam Alamanda, Novie Susanti Suseno, Abdullah Ramdhani, Selsya Desianti	369
Analysis of Online Customer Reviews Toward Interest Using Blibli as Online Marketplace in UPI Students	
Rachmat Hidayat, Dadang Dahlan.....	380
The Influence of Technopreneurial Learning on Technopreneurship Intention Students	
Dwi Nurhayati, Amir Machmud	390
How Does Human Capital's Impact to Cost of Financial Distress?	
Estu Widarwati, Tulus Haryono	401
The Effect of Ownership Structure on Firm Value with Profitability as a Moderating Variable	
Muhammad Rohim, Syamsudin, Swara Prabu Windy Satriawi.....	413
Exploring the Connection Between Entrepreneurship and Family Business in Indonesian Family SMEs	
Kussudyarsana, Muhammad Halim Maimun	428
Techno Economic of CNG & GTG Technology Applied in Gas Flare Management	
Dicgorry Nafiscatoha, Nelson Saksono	439
Supply Chain Management Practices (SCMP) On Sentra Industri Tahu Cibuntu Bandung	
Lidya Clarisah Apriliya, RR. Rieka F. Hutami	452
The Role Of Sharia Banking Towards Development Of Micro, Small And Medium Enterprises (MSMEs) in Yogyakarta	
Ayif Fathurrahman, and Jihan Fadilla	458
The Effect of Economic Growth and Wage on Employment Opportunities at Samarinda City	
Wisnu Satria, Muhammad Syahrul Mubarak	467
Good Corporate Governance, Corporate Social Responsibility Disclosure, and Firm Value	
Rina Trisnawati, Noer Sasongko, Wiyadi, Lykna Indrawati	479
Comparison of Altman, Springate, Zmijewski and Grover Models in Predicting Financial Distress on Companies of Jakarta Islamic Index (JII) on 2013-2017	
Rollis Ayu Ditasari, Dr.Triyono, Dr.Noer Sasongko	490
Corruption and Public Budgeting in The Local Government in Indonesia	
Sunarti, Totok Susilo, Sriyanto	505
Conceptual Model of Accelerating the Adoption of Small and Medium Industries in Implementing Industry 4.0 with the Lean Manufacturing Approach	
Risma Fattahatin Muizzullah, Komarudin, Akhmad Hidayatno	514
The Economic Valuation of Tourism Sector and Poverty Reduction in Kota Batu: Travel Cost Method (TCM) Approach	
Setyo Tri Wahyudi.....	527
The Economic, Moral and Spiritual Accountability at Kamaran Villa Business and It's Relevance in a Suluk Linglung Sunan Kalijaga	
Ria Mennita dan Bonnie Soeherman	535

The Third International Current Breakthrough in Pharmacy (ICB-PHARMA)

Antibacterial Activity of Extract and Fraction of <i>Baccaurea macrocarpa</i> Leaf on <i>Escherichia coli</i> and <i>Bacillus cereus</i>	Irfan Zamzani, Nita Triadisti	551
Anti-inflammatory Activities of Methyl <i>trans</i>-Cinnamate derivatives on Carrageenan-Induced Paw Edema in Male Sprague-Dawley Rats	Teni Ernawati, Tri Yuliani, Minarti, Indah Dwiatmi Dewijanti.....	557
In Vivo Antihypercholesterolemic Effects of <i>Caricapubescens</i> Seeds Hypercholesterolemic-induced Rats	Fania Putri Luhurningtyas, Melati Aprilliana, Gea Ros Alifa.....	564
The Effect of Rosella (<i>Hibiscus sabdariffa</i> Linn) on Insulin Resistance in Patients with Type 2 Diabetes Mellitus: A Randomized Clinical Trial	Dwi Sarbini, Emy Huriyati, Hamim Sadewa, Mae Sri Hartati Wahyuningsih	572
The Immunomodulatory Activities of <i>Saurauia vulcani</i> Korth Leaves towards RAW 264.7 cell	Rosidah, Yuandani, Sri Suryani Widjaja, Muhammad Fauzan Lubis, Denny Satria	586
Conversion Eugenol to Vanillin: Evaluation of Antimicrobial Activity	D. Triana, M. A. Tafdilla, L. D. Antika, T. Ernawati.....	594
Cytotoxicity of Ethanol Extract, Polar, Semipolar, and Nonpolar Herb Citolod (<i>Isotoma longiflora</i> (L.) C. Presl.) Cells on MCF-7 Cells	Haryoto and Atikah Hapsari	603
Ethanolic Extracts of Mulberry (<i>Morus alba</i> Linn) Leaf Prevent Hyperlipidemia and Oxidative Stress-induced Steatohepatitis in Rats	Wening Sari	610
Antioxidant Activity Etanolic Extract from White Mangrove Leaf (<i>Avicennia marina</i>) by FRAP (<i>Ferric Reducing Antioxidant Power</i>) Method	Asfy Nurany, Haryoto	618
Antioxidant Activity of Mangrove <i>Sonneratia caseolaris</i> L using the FRAP Method	Danang Raharjo, Haryoto	623
Antioxidant Activity of Extract and Fraction from <i>Boesenbergia pandurata</i> Rhizome by FRAP Method	Nursalinda Kusumawati, Haryoto	630
The Biochemical and Kidney Histopathological Parameters in Hyperoxaluria Rats Treated with Breadfruit Leaf Extract	Jatmiko Susilo, Siswanta Jaka Purnama, Ardianti Wahyuni, Bambang Purwanto, Muchsin Doewes, Dono Indarto.....	635
Effect of Green Tea Extract to the Degree of Knee Joint Damage and Nitric Oxide Levels in the Rabbit Osteoarthritis Model	Tri Panjiasih Susmiarsih, Restu Syamsul Hadi, Achmad Sofwan, Kuslestari, Intan Razari	648

Non Specific and Specific Parameter Standardization Of Banana Peel (*Musa paradisiaca Sapientum*) and *Andrographis Paniculata*

Jastria Pusmarani, Risky Juliansyah Putri, Citra Dewi, Setyo Purwono, Zullies Ikawati 658

International Conference on Learning and Advanced Education (ICOLAE)

Most Common Learning Style Used By the Students of English Department of Tidar University

Ikrar Genidal Riadil, Muhammad Rauuf Oktavian Nur 667

The Effect of Strategic Orientation on The Competitive Advantage and Business Performance: A Case of Batik SMEs

Setia Iriyanto, Nurhayati, Suharnomo, Susilo Toto Raharjo 671

Measurement of Anaerobic Capacity Based On Fatigue Index for *Pencak Silat* Athletes on Combat Category

Nur Subekti, Agam Ahmad Syaukani, Muhamad Faton 681

Woman Resistance Against NAZI Regime Reflected in *The Book Thief* Novel

Farras Windratama, Yeny Prastiwi 687

The Phenomenon of *Indonglish* Usage at Tidar University: Breaching The Motives from Sociolinguistics Perspectives

Ikrar Genidal Riadil, Muhammad Rauuf Oktavian Nur 696

Existence Center For Sports Performance (SPPOI) In Treatment Sports Injuries

Nurhidayat, Vera Septi Sistiasih, Marvian Dwi Harjanto 703

International Conference of Geography and Disaster Management (ICGDM)

Integration of Environmental Education in Eco Pesantren Daarut Tauhiid Bandung

Emtizal Sapordi, Prof. Dr. Wanjat Kastolani, M.Pd, Dr. Epon Ningrum, M.Pd 713

Relationship Professional Competence of Geography Teachers with Spatial Thinking Students in Pandeglang District High School

Dida Dwi Nugraha, Prof. Dr. Enok Maryani, MS, Dr. Iwan Setiawan, S.Pd, M.Si 721

Stakeholders' Perception of Safety Prioritization at Ship Services in the Sunda Strait

Khoirul Anwar 733

Relation Between Spatial Ability and Critical Thinking in Geography Education: A Survey on Student of Senior High School

Raharjo Ade Putra, Dr. Ahmad Yani, M.Si., Dr. Lili Somatri, M.Si. 740

Reducing Greenhouse Gasses Emission from Energy Consumption in Floating Net Cage Aquaculture (FNCA)

Idea Wening Nurani, Sunardi, Lutfi Mutu'ali, Estuning Tyas Wulan Mei, Sandy Budi Wibowo, Alia Fajarwati, Briantama Yanuar Ridwan, Nooriza Maharani, Aditya Pradipta 749

International Conference on Islamic and Muhammadiyah Studies (ICIMS)

Analisis Terhadap Paket Kebijakan Ekonomi Ease of Doing Business (EODB) Ditinjau Melalui Perspektif Kaidah Fiqh Adz-Dzariah dalam Rangka Perlindungan Terhadap Maqashid Syariah

Dandy Ramadhan, Wisnu Tri Nugroho..... 757

Dragon in Protection of Cresent and Red White: Islamic and Nation Thoght of Abdul Karim Oey (Oey Tjeng Hien)

Merri Sri Hartati, Sidiq Aulia, Hardiansyah 769

International Conference on Health and Well-Being (ICHWB)

Anti-inflammatory Effect of Ethyl Acetate Fraction of Ethanol Extract of *Guazuma ulmifolia* Lamk

Emsutrisna, Sri Wahyuni, Tanti Azizah S, Maryati 777

Factors Affecting Tourists' Destination Patronizing Intentions Toward Mount Papandayan Tourism, Indonesia

Dini Turipanam Alamanda¹, Novie Susanti Suseno¹, Abdullah Ramdhani², Selsya Desianti¹

¹ Faculty of Economics, Garut University, Jalan Samarang 52 Garut, Indonesia

² Faculty of Social and Political Sciences, Garut University, Jalan Samarang 52 Garut, Indonesia

Abstract

Purpose: The study aimed to identify and analyze factors affecting tourists' destination patronizing intentions toward Mount Papandayan Tourism, Indonesia.

Methodology: This study applied quantitative methods with a descriptive explanation design. The survey was conducted by distributing questionnaires to 100 respondents who have visited Mount Papandayan Tourism more than once.

Results: The collected data were analyzed by confirmatory factor analysis supported with SPSS. The result showed that two new factors namely testimony and loyalty were generated out of seven tested factors including telling experiences, giving recommendation to visit, desire to tell positive things, promoting tourism, desire to revisit, reluctance to changes, and not needing new experiences.

Applications/Originality/Value: The research implication is that it can be utilized as consideration for developing Mount Papandayan Tourism. The proposed managerial implications were creating attractions that encouraging the tourists to give testimony on the tourism objects and providing services that attract the tourists' intention to visit.

INTRODUCTION

The tourism industry has showed sustainable growth both in income and the number of tourists, and it has provided extensive economic, social, cultural, and environmental impacts in almost every country in the world, including Indonesia (Cholik, 2017). Tourism marketing is increasingly competitive in the world (Buhalis, 2000). Regarding this case, the tourism marketing paradigm has been shifted from profit to sustainability (Jamrozy, 2007). Ecotourism is the most popular type of tourism in Indonesia (Cahyadi, 2014) and it covers beaches, mountains, lakes, caves, and others.

Mount tourism can utilize a diverse mountain ecological and cultural characteristic (Nepal & Chipeniuk, 2005). Mount Papandayan Tourism Park is one of the most popular ecotourism destinations in Indonesia. Mount Papandayan is managed by an experienced private party that also manages other tourisms in the same field in this country. Mount Papandayan is categorized as the stratovolcano complex category found in a series of volcanoes. Volcanoes become fast-developing tourist destinations and it is called 'volcano tourism' (Cahyadi, 2014). Factors affecting tourists to visit volcano tourism cover the desire to have vacation, climbing, curiosity, photography, and research.

Business competition in the field of mount tourism has not been as competitive as other fields. However, poor access to the location of the tourist destination makes the management of Mount Papandayan Tourism rely on the presence of local tourists. Besides attracting tourists, tourism management has tried to make the visitors impressed and encourage them to revisit it in the future. The study aimed to identify factors affecting tourist' destination patronizing intentions in Mount Papandayan Tourism Park.

LITERATURE REVIEW

Customer Relationship Marketing

Customer relationship marketing (CRM) is a research framework to maintain customers and a strategic approach to the travel and tourism business (Tsiotsou & Ratten, 2010). Relationship marketing is defined as the identification, establishment, maintenance, improvement, modification, and termination of relationships with customers to create values for customers and profits for the organization through a series of relational exchanges both in the past and future (Kanagal, 2009). The key purpose of CRM is an effort to understand and treat customers better to increase loyalty and profits (Velnampy & Sivesan, 2012).

Chiu, Hsieh, Li, & Lee (2005) emphasize the relationship between relational ties, customer values, and customer loyalty in three different customer groups (stayers, dissatisfied switchers, and satisfied switchers). Customers Relationship Marketing can encourage customers to stick (stay) on a tourism product/service.

Tourism Marketing and Tourism Destination

Marketing research has tried to follow the dynamic evolution of the development of tourism research which continuously grows and requires a diverse of topics, one of which is tourism marketing (Tsiotsou & Ratten, 2010). Tourism marketing strategies may have significant impacts in terms of opportunities and challenges in the social development of tourism areas (Dolnicar & Ring, 2014). Tourism marketing has to balance the strategic objectives of all tourism stakeholders and the sustainability of local resources (Buhalis, 2000). Tsiotsou & Ratten (2010) states that theoretically, tourism marketing is shaped by customers' behavior, branding, electronic marketing, and strategic marketing.

Tourism marketers ensure that they meet two criteria, namely meeting the customers' needs and organizational goals (Mwinuka, 2017). Tourism marketing represents a systematic, coherent, and consistent Destination Marketing Organization's (DMO) effort to develop, formulate, and implement their strategies by offering unforgettable experiences for the visitors (Soteriades, 2012). The definition of tourism destinations can be grouped based on spatial, economic, managerial, system, and network approaches (Zemla, 2016). Tourism marketing can be done by increasing competitiveness, visibility, and local cooperation as well as reducing costs (Buhalis, 2000). The interesting part is the paradigm shift from production, sales, and consumers oriented to marketing alternatives such as social marketing, causal, green tourism, responsibility, and relationships.

Adapting the living systems theory, the sustainable tourism marketing model integrates tourism into a larger holistic context and focuses on quality of life marketing for all stakeholders in the system (Jamrozy, 2007). Pomering & Johnson (2009) propose a tourism marketing mix including ten elements of P tourism mix with 3P of triple-bottom-line reporting concept. Then, the 10P covers product, price, place, promotion, people, process, physical evidence, packaging, programming, and partnership. Whereas the element of 3P consists of population, planet, and profit. It is crucial for tourism to optimize tourism marketing because it positively contributes to revisit intentions (Su, Huang, & Pearce, 2018).

Tourist Revisit-Intention and Patronizing Intention

The revisit intention has been considered as an extension of customers' satisfaction rather than an extension of the decision-making process of revisit intention (Um, Chon, & Ro, 2006). Seetanah, Teeroovengadum, & Nunkoo (2018) confirm it by investigating the impact of the service quality in ensuring the tourists' satisfaction that contributes to revisit intentions.

Abubakar, Ilkan, Meshall Al-Tal, & Eluwole (2017) propose some factors affecting tourists' revisit intention, namely: (1) eWOM; (2) destination trust; (3) the impact of eWOM on the revisit intention for women is 1.3 times higher compared to men; (4) the impact of eWOM on destination trust reaches 1.2 times higher for men; and (5) the impact of destination trust on revisit intention is 2.3 times higher for women. Perceived attractiveness has a higher impact on revisit intention compared to overall satisfaction (Um et al., 2006). A conceptual model incorporating a relational (destination attachment) and a transactional (destination image) antecedent to patronizing intention (Lin & Morais, 2009). Patronizing Intentions are revisit-intention models that consider two factors namely intention to recommend and resistance to change. The research framework is presented in Fig. 1.

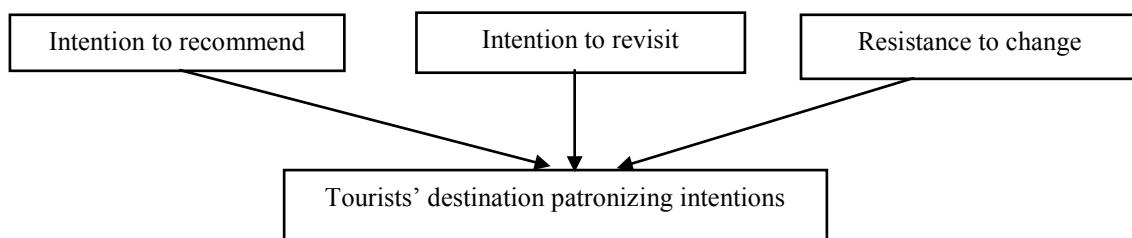


Figure 1. Conceptual framework (Lin & Morais, 2009)

METHODOLOGY

Based on the type and analysis of the data, the research was quantitative in nature with a descriptive design. Then, based on the study period, it was cross-section research. The data were collected through observation and distribution of the questionnaire. The observation was conducted five times in some locations predicted as the main attractions of Mount Papandayan tourism. The locations were the dead forest, Pondok Saladah camp, Edelweiss field, Papandayan Crater, and Papandayan Lake.

The population of this study was tourists who have visited Mount Papandayan more than once and it involved 100 respondents selected with a purposive sampling method. The questionnaire was designed based on the component of tourist revisit-intention proposed by Lin & Morais (2009) and it applied Likert scales. The operationalization factor of the study is presented in Table 1.

Table 1. The Operationalization Factor

Component	Indicators	Symbol
Intention to recommend	Telling experiences Giving recommendation to visit Desire to tell the positive things Promoting the tourist attractions	Ind 1 Ind 2 Ind 3 Ind 4
Intention to revisit	Intention to revisit	Ind 5
Resistance to change	Resistance to change Do not want to get new experiences	Ind 6 Ind 7

The respondents were grouped by gender, age, occupation, and the number of visits. The profile of the respondent is presented in Table 2.

Table 2. Profil Responden

Parameter	Level	Frequency	Percentage
Gender	Male	55	55%
	Female	45	45%
Age	≤ 19	9	9%
	20 - 24	57	57%
	25 - 29	15	15%
	≥ 30	19	19%
Occupation	Student/ Student University	40	40%
	Civil Servants	3	3%
	Employee	38	38%
	Miscellaneous	18	18%
Number of visits	2	77	77%
	3	10	10%
	>3	13	13%

The collected data were analyzed by Confirmatory Factor Analysis (CFA) with the help of SPSS. This analysis was selected to be able to explain the structure of the relationship among many factors representing some items of observed factors.

RESULT

The collected data from 100 respondents were analyzed with CFA supported by SPSS software. The analysis was started with the Determinant of Correlation test. The correlation matrix presented in Table 3 showed that the variables were interrelated if the determinant value was close to 0.

Table 3. Correaltion Matrix

	Ind1	Ind2	Ind3	Ind4	Ind5	Ind6	Ind7	
Correlation	Ind1	1,000	,840	,757	,744	,359	,036	-,272
	Ind2	,840	1,000	,756	,762	,282	-,013	-,163
	Ind3	,757	,756	1,000	,762	,398	,074	-,214
	Ind4	,744	,762	,762	1,000	,342	,037	-,122
	Ind5	,359	,282	,398	,342	1,000	,445	,173
	Ind6	,036	-,013	,074	,037	,445	1,000	,387
	Ind7	-,272	-,163	-,214	-,122	,173	,387	1,000
Sig. (1-tailed)	Ind1	,000	,000	,000	,000	,363	,003	
	Ind2	,000		,000	,002	,448	,053	
	Ind3	,000	,000		,000	,231	,016	
	Ind4	,000	,000	,000		,356	,114	
	Ind5	,000	,002	,000	,000		,000	,042
	Ind6	,363	,448	,231	,356	,000		,000
	Ind7	,003	,053	,016	,114	,042	,000	

Further, based on the result of the calculation in Table 3, the Determinant of Correlation Matrix showed a value of 0.016. It was close to 0, so the correlation matrix between variables was interrelated. The next analysis was by the Kaiser Meyer Olkin Measure of Sampling (KMO) test that was a comparative index of the distance between the correlation coefficient and its partial correlation coefficient. The KMO value is considered sufficient if it is more than 0.5.

Table 4. KMO dan Bartlett Test of Sphericity

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	,793
Bartlett's Test of Sphericity	
Approx. Chi-Square	393,350
Df	21
Sig.	,000

Table 4. shows that the KMO value reached 0.793, thus the KMO meets the requirements as it was higher than 0.5. Moreover, Bartlett's test of Sphericity revealed that it met the requirements because the significance value reached 0.00 or lower than 0.05, then the indicators were correlated and feasible for further analysis, Measure of Sampling Adequacy (MSA) test.

Table 5. Anti-image Matrices

		Ind1	Ind2	Ind3	Ind4	Ind5	Ind6	Ind 7
Anti-image Covariance	Ind1	,226	-,131	-,039	-,050	-,064	-,033	,119
	Ind2	-,131	,230	-,065	-,067	,044	,046	-,073
	Ind3	-,039	-,065	,302	-,115	-,085	-,031	,083
	Ind4	-,050	-,067	-,115	,323	-,021	,027	-,054
	Ind5	-,064	,044	-,085	-,021	,635	-,240	-,108
	Ind6	-,033	,046	-,031	,027	-,240	,687	-,240
	Ind7	,119	-,073	,083	-,054	-,108	-,240	,705
Anti-image Correlation	Ind1	,799 ^a	-,573	-,150	-,186	-,170	-,084	,299
	Ind2	-,573	,794 ^a	-,246	-,245	,115	,116	-,182
	Ind3	-,150	-,246	,868 ^a	-,369	-,195	-,067	,181
	Ind4	-,186	-,245	-,369	,881 ^a	-,047	,058	-,114
	Ind5	-,170	,115	-,195	-,047	,747 ^a	-,364	-,161
	Ind6	-,084	,116	-,067	,058	-,364	,561 ^a	-,345
	Ind7	,299	-,182	,181	-,114	-,161	-,345	,522 ^a

Table 5. shows the result of the MSA requirement test for 7 indicators. An indicator can meet the MSA requirements if the MSA value in the Anti Image Correlation row with the “a” sign was higher than 0.5. All indicators in Table 5 met the MSA requirements because the value of each was higher than 0.5, thus there was no need for exclusion or reduction.

Table 6. Communalities

	Initial	Extraction
Ind1	1,000	,851
Ind2	1,000	,824
Ind3	1,000	,814
Ind4	1,000	,783
Ind5	1,000	,638
Ind6	1,000	,718
Ind7	1,000	,588

Table 6. shows to what extent an indicator can explain a factor, for example, indicator 1 with a value of 0.851, meaning that indicator 1 can explain a factor with 85.1% and so do the others. The Extraction value of all indicators was higher than 0.50, hence, it can be concluded that all indicators can explain the factors.

Table 7. Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings	
	Total	% of Variance	Cumulative %	Total	% of Variance
1	3,550	50,716	50,716	3,550	50,716
2	1,665	23,787	74,503	1,665	23,787
3	,666	9,512	84,015		
4	,471	6,723	90,738		
5	,285	4,071	94,809		
6	,224	3,194	98,003		
7	,140	1,997	100,000		

Table 7. can be used for determining the possible factors that possibly be formed. Based on the Initial Eigenvalues column, 2 factors could be formed from the 7 analyzed indicators. The requirement of a factor, the Eigenvalues value have to be higher 1. The value of Eigenvalues for factor number 1 reached 3,550 or higher than 1, so it could explain 50.716% variation. Factor number 2 reached a value of 1.665, so it could explain 23.787% variation. If factors 1 and 2 were merged, they could explain 74.503% of the variation. However, components 3, 4, 5, 6, and 7 were not counted because the Eigenvalues value was less than 1 (not a factor). Table 8 shows to what extent an indicator correlates with the factors that will be formed. In Indicator 1, it correlated by 0.917 with a factor of 1 and correlated by -0.099 with factor 2.

Table 8. Component Matrix

	Component	
	1	2
Ind1	,917	-,099
Ind3	,902	-,023
Ind2	,902	-,106
Ind4	,884	-,022

Ind6	,099	,842
Ind7	-,225	,733
Ind5	,490	,630

Determination of the indicators for factors 1 and 2 was by looking at the highest correlation value based on Table 9. Factor 1 correlated by 0.922 for indicator 1, 0.907 for indicator 2, 0.901 for indicator 3, 0.884 for indicator 4, 0.847 for indicator 6, 0.714 for indicator 7, and 0.665 for indicator 5. Finally, these seven indicators were reduced to 2 factors as showed in Table 10.

Table 9. Rotated Component Matrix

		Component	
		1	2
Ind1	,922	-,031	
Ind2	,907	-,039	
Ind3	,901	,043	
Ind4	,884	,044	
Ind6	,036	,847	
Ind7	-,279	,714	
Ind5	,442	,665	

New factor	Indicator	Factor loading
Factor 1	Telling experiences	0,922
	Giving recommendation to visit	0,907
	Desire to tell the positive things	0,901
	Promoting the tourist attractions	0,884
Factor 2	Intention to revisit	0,665
	Resistance to change	0,847
	Do not want to get new experiences	0,714

Next, the Component Transformation Matrix explained that the figures in the diagonal column between Component 1 and Components 1 and 2. Based on the results of Table 11., the correlation value of component 1 reached $0.997 > 0.5$ and 0.997 for component 2. As all components have a correlation value higher than 0.5, then factors 1 and 2 can be said accurately summarizing the seven indicators.

Table 11. Component Transformation Matrix

Component	1	2
1	,997	,074
2	-,074	,997

DISCUSSION

Based on the results of data analysis, it can be concluded that the seven analyzed factors which have been validated could be reduced into 2 factors.

Factor of Testimony

Factor 1 consists of several indicators namely telling experiences (Ind1), giving recommendation to visit (Ind2), desires to tell positive things (Ind3), and promoting tourist attraction (Ind4). This factor is called the testimony factor as it is the testimony from the tourists' experiences when enjoying the attraction, it is like a perceived satisfaction or dissatisfaction.

The valuable experience lingering on the tourists' memories will cause the desire to retell the experience and when they do it, they will like remembering and feeling their experience in Mount Papandayan or it can be called self-hypnosis. It will encourage tourists to re-visit Mount Papandayan, both to feel the experiences they had got or to get new experiences.

Experiences can be told orally or in the form of writing. Advances in information technology allow tourists who have travel blogs to write reviews of the service quality of tourist destinations (Pan, MacLaurin, & Crotts, 2007). In addition to affecting the readers, it also affects the writers who write the testimony and it has the potential to encourage them to revisit the tourist attraction. Molina, Rico, & Navarro (2010) state that sources of information provide several essential impacts for example on new technology, tourist consumer behavior, an increase in the number of tourist destinations, and tourist attraction competitiveness.

The role of a travel agent directly influences the tourists' perception of tourist destinations. It means that they can provide positive or negative perceptions for tourists (Molina et al., 2010). Leaders of reference groups can influence customers' decisions as they are part of joint opinion-makers with decision-makers and the affecting factors also have crucial roles in filtering information, orientation perception, and shaping customers' attitudes (Cornescu & Adam, 2013). Therefore, it is prominent for tour managers to encourage these leaders to give positive testimonials to their group members.

Place storytelling enables strategic communication which supports sustainable competitive advantages (Bassano et al., 2019). It means that positive testimony can grow by giving visitors a storytelling experience, for example by showing the history of Mount Papandayan through a large screen in the parking lot. Thus, tourists got interesting information that can be told when returning to their homes. The options to choose the name of testimony factor as a support to make the visitors have a revisit intention can be linked to Keke (2019) in which testimony is considered a significant variable that affects tourism destinations. It implies that testimony does not only affect someone to visit tourist destinations, but also to revisit these destinations in the future.

Factor of Loyalty

Factor 2 consists of three indicators, namely intention to revisit (Ind5), resistance to change (Ind6), and do not want to get new experiences (Ind7). These indicators can show tourists' loyalty to Mount Papandayan tourism, thus this factor is called loyalty factor. McDowall (2010) found that tourists' loyalty to a tourist destination can measure their likelihood to revisit and spread positive information about tourist destinations to others. Loyalty also affects the intention to revisit and recommend the visited attractions (Som & Badarneh, 2011). Besides the quality of tourist attractions, the management of complaints has a relationship with tourists' satisfaction and loyalty (Lee, Jeon, & Kim, 2011).

Out of the three levels of tourist loyalty (Zhang, Fu, Cai, & Lu, 2014), the impact on composite loyalty was destination image, attitude loyalty, and behavior loyalty respectively. It provides information to the tourism management in Mount Papandayan regarding the importance of growing a positive image to tourists in order to develop loyalty. Quintal & Polczynski (2010)

emphasize that positive perceptions are essential in developing customer loyalty, thus it has to be handled proactively to develop sustainable relationships.

CONCLUSION AND RECOMMENDATION

This study aims to identify the factors affecting local tourists in tourists' destination patronizing intentions. The results show that of the seven explored factors could form two new factors indicated to encourage revisit intention, namely factors of testimony and loyalty.

Future research on tourist revisit-intention has to adopt a holistic view and integrated marketing and to consider social justice, environmental protection, and economic condition to create sustainable tourism (Jamrozy, 2007). The key need of tourism marketers is to share experiences so they can coordinate their work and disseminate the results to create sustainable tourism (Mwinuka, 2017). Practical recommendations tourism management of Mount Papandayan to form positive testimony and loyalty cover:

- 1) Providing a testimonial post and a souvenir for tourists who post their testimony;
- 2) Organizing a festival or another event, for example by utilizing social media;
- 3) Displaying slogans or posters at certain locations, such as at the entrance and exit gates;
- 4) Welcoming tourists with music;
- 5) Providing special foods or drinks for free;
- 6) Creating new tourist attractions;
- 7) Increase tourist safety and share the latest information through electronic media.

ACKNOWLEDGMENT

This research managed to be conducted by utilizing the Basic Research Grant from the Ministry of Research, Technology, and Higher Education 2019-2021

REFERENCES

- Abubakar, A. M., Ilkan, M., Meshall Al-Tal, R., & Eluwole, K. K. (2017). eWOM, revisit intention, destination trust and gender. *Journal of Hospitality and Tourism Management*. <https://doi.org/10.1016/j.jhtm.2016.12.005>
- Bassano, C., Barile, S., Piciocchi, P., Spohrer, J. C., Iandolo, F., & Fisk, R. (2019). Storytelling about places: Tourism marketing in the digital age. *Cities*. <https://doi.org/10.1016/j.cities.2018.12.025>
- Buhalis, D. (2000). Marketing the competitive destination of the future. *Tourism Management*. [https://doi.org/10.1016/S0261-5177\(99\)00095-3](https://doi.org/10.1016/S0261-5177(99)00095-3)
- Cahyadi, H. S. (2014). Risk Management in Volcano Tourism in Indonesia. *ASEAN Journal on Hospitality and Tourism*, 13, 125–136.
- Chiu, H. C., Hsieh, Y. C., Li, Y. C., & Lee, M. (2005). Relationship marketing and consumer switching behavior. *Journal of Business Research*. <https://doi.org/10.1016/j.jbusres.2004.11.005>
- Cholik, A. (2017). The Development of Tourism Industry in Indonesia : Current Problems and Challenges. *European Journal of Research and Reflection in Management Sciences*, 5(1), 49–59.
- Dolnicar, S., & Ring, A. (2014). Tourism marketing research: Past, present and future. *Annals of Tourism Research*. <https://doi.org/10.1016/j.annals.2014.03.008>

- Jamrozy, U. (2007). Marketing of tourism: a paradigm shift toward sustainability. *International Journal of Culture, Tourism and Hospitality Research*. <https://doi.org/10.1108/17506180710751669>
- Kanagal, N. (2009). Role of Relationship Marketing in Competitive Marketing Strategy. *Journal of Management and Marketing Research*.
- Keke, Y. (2019). *The Impact of Social Media and Testimony on Selecting the Tourism Destination*. <https://doi.org/10.2991/icas-19.2019.105>
- Lee, S., Jeon, S., & Kim, D. (2011). The impact of tour quality and tourist satisfaction on tourist loyalty: The case of Chinese tourists in Korea. *Tourism Management*. <https://doi.org/10.1016/j.tourman.2010.09.016>
- Lin, C. H., & Morais, D. B. (2009). TRANSACTIONAL VERSUS RELATIONAL PATRONIZING INTENTIONS. *Annals of Tourism Research*. <https://doi.org/10.1016/j.annals.2009.06.004>
- McDowall, S. (2010). International tourist satisfaction and destination loyalty: Bangkok, Thailand. *Asia Pacific Journal of Tourism Research*. <https://doi.org/10.1080/10941660903510040>
- Molina, A., Rico, M. G., & Navarro, D. M.-C. (2010). Tourism marketing information and destination image management. *African Journal of Business Management*, 4(5), 722–728.
- Mwinuka, O. H. (2017). Reviewing the role of tourism marketing in successful sustainable tourist destinations. *African Journal of Hospitality, Tourism and Leisure*.
- Nepal, S. K., & Chipeniuk, R. (2005). Mountain tourism: Toward a conceptual framework. *Tourism Geographies*. <https://doi.org/10.1080/14616680500164849>
- Pan, B., MacLaurin, T., & Crotts, J. C. (2007). Travel blogs and the implications for destination marketing. *Journal of Travel Research*. <https://doi.org/10.1177/0047287507302378>
- Pomering, A., & Johnson, L. W. (2009). Sustainable tourism marketing : what should be in the mix ? *ANZMAC*.
- Quintal, V. A., & Polczynski, A. (2010). Factors influencing tourists' revisit intentions. *Asia Pacific Journal of Marketing and Logistics*. <https://doi.org/10.1108/13555851011090565>
- Seetanah, B., Teeroovengadum, V., & Nunkoo, R. S. (2018). Destination Satisfaction and Revisit Intention of Tourists: Does the Quality of Airport Services Matter? *Journal of Hospitality and Tourism Research*. <https://doi.org/10.1177/1096348018798446>
- Som, A. P. M., & Badarneh, M. B. (2011). Tourist satisfaction and repeat visitation; toward a new comprehensive model. *World Academy of Science, Engineering and Technology*. <https://doi.org/10.5281/zenodo.1076526>
- Soteriades, M. (2012). Tourism destination marketing: Approaches improving effectiveness and efficiency. *Journal of Hospitality and Tourism Technology*. <https://doi.org/10.1108/17579881211248781>
- Su, L., Huang, S. (Sam), & Pearce, J. (2018). How does destination social responsibility contribute to environmentally responsible behaviour? A destination resident perspective. *Journal of Business Research*. <https://doi.org/10.1016/j.jbusres.2018.02.011>
- Tsiotsou, R., & Ratten, V. (2010). Future research directions in tourism marketing. *Marketing Intelligence and Planning*. <https://doi.org/10.1108/02634501011053702>
- Um, S., Chon, K., & Ro, Y. H. (2006). Antecedents of revisit intention. *Annals of Tourism Research*. <https://doi.org/10.1016/j.annals.2006.06.003>
- Velnampy, T., & Sivesan, S. (2012). Customer Relationship Marketing and Customer Satisfaction:

A Study on Mobile Service Providing Companies in Sri Lanka. *Global Journal of Management and Business Research.*

Zemla, M. (2016). Tourism destination: The networking approach. *Moravian Geographical Reports.* <https://doi.org/10.1515/mgr-2016-0018>

Zhang, H., Fu, X., Cai, L. A., & Lu, L. (2014). Destination image and tourist loyalty: A meta-analysis. *Tourism Management.* <https://doi.org/10.1016/j.tourman.2013.06.006>