

International Conference on Education and Technology 2017

Sustainability in Tropical Environment for Education and Technology

Advances in Intelligent Systems Research Volume 144

Balikpapan, Indonesia
23 – 24 November 2017

Editors:

**Haviluddin
Aji P. Wibawa
Andri Pranolo**

**Putut Pamilih Widagdo
Hari Jati Setyadi
Medi Taruk**

ISBN: 978-1-5108-7106-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2018) by Atlantis Press
All rights reserved.
<https://www.atlantis-press.com/proceedings/icedutech-17>

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the publisher:

Atlantis Press
Amsterdam / Paris

Email: contact@atlantis-press.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

SESSION: EDUCATION

DIAGNOSTIC ASSESSMENT IN LEARNING OPTICS BASED ON INQUIRY LABORATORY	1
<i>R. Qadar, Z. Haryanto, Samsiah Samsiah</i>	
STUDENTS' CAPABILITIES IN ESSAY PREPARATION RELATED TO COMPETENCY AND LEARNING OBJECTIVES THROUGH COURSE EVALUATION EDUCATION OF BIOLOGY TEACHER	5
<i>Makrina Tindangen</i>	
STUDENT PERCEPTIONS ABOUT VETERANS SERVICE IN FIGHTING INDONESIA'S INDEPENDENCE AT STATE JUNIOR HIGH SCHOOL 2 SAMARINDA.....	10
<i>Wingkolatin Wingkolatin, Jamil Jamil</i>	
MODEL WORK BASED LEARNING WITH THE CONCEPT SERVICE LEARNING AND IMPLEMENTATION FOR IMPROVING THE MOTIVATION LEARNING AND OUTCOMES LEARNING.....	16
<i>Luchyto Chandra Permadi, Dwi Agus Sudjimat, Tuwoso Tuwoso</i>	
THE ENGLISH PRE-SERVICE TEACHERS' POLITENESS STRATEGIES OF OFFERING CONTEXT ACROSS GENDERS	20
<i>Anggi Aisyadatina, Susilo Susilo, Yuni Utami Asih</i>	
UTILIZING GEOGEBRA IN APPLICATION OF INTEGRAL MODULE FOR HIGH SCHOOL STUDENTS IN BALIKPAPAN, EAST BORNEO INDONESIA.....	27
<i>Suci Yuniarti, Tri Hariyati Nur Indah Sari, Husnul Khotimah</i>	
THE EFFECT OF SILENT SHORT MOVIE ON EFL WRITING ACHIEVEMENT OF VOCATIONAL HIGH SCHOOL STUDENTS	32
<i>Rahmani Ayu Rinda Kartika, Susilo Susilo, Muhammad Natsir</i>	
THE INFLUENCE OF EARTH SCIENCE COMMUNITY LEARNING MODEL (EARTHCOMM) TO LEARNING OUTCOMES OF GEOGRAPHY.....	39
<i>Mei Vita Romadon Ningrum, Ernia Kholiq</i>	
IDEA-PHYRLAB DEVELOPMENT (PHYSICAL LEARNING MEDIA BASED ON VIRTUAL LABORATORY ON IDEAL GAS EQUATION)	42
<i>Afiq Agung, Nurfaida Nurfaida, Muhammad Nasrullah</i>	
THE INFLUENCE OF CERTIFICATION AND PROFESSION COMMITMENT TOWARD TEACHERS' PERFORMANCE AT MADRASAH TSANAWIYAH SAMARINDA.....	48
<i>Aminah Sitti, Labuan Pm, Akbar Maruf</i>	
THE USE OF AN INTERACTIVE MULTIMEDIA THERMODYNAMICS TO IMPROVE CONCEPTUAL MASTERY OF PHYSICS PROSPECTIVE TEACHERS	54
<i>A. Hakim, A. Masruhim, R. Qadar, M. Syam</i>	
THE APPLIANCE OF GENDER ANALYSIS MODEL SARA H. LONGWEE STUDY ON THE PROBLEM OF FEMALE LECTURER IN FUNCTIONAL POSITION IN HIGH EDUCATION	58
<i>Widyatmike Gede Mulawarman, Abdullah Karim</i>	
EFFECT OF DLPS (DOUBLE LOOP PROBLEM SOLVING) LEARNING STRATEGY ON ENTOMOLOGY COGNITIVE LEARNING OUTCOMES OF THE STUDENTS OF BIOLOGY EDUCATION IN FACULTY OF TEACHER TRAINING AND EDUCATION MULAWARMAN UNIVERSITY	64
<i>Sonja V. T Lumowa, Zenia L. Kurniawati</i>	
ISOLATION OF SECONDARY METABOLITE COMPOUNDS AND ANTIBACTERIAL ACTIVITIES TESTS FROM HEXANE EXTRACT OF STEM BARK MELOCHIA UMBELLATE (HOULTT) STAPF VAR. DEGRABRATA K.....	68
<i>Usman Usman, Muh. Amir</i>	
THE ACTIVITY OF ANTI-OXIDIDE OF ETIL ACETATE SOLUBLE FRACTIONS FROM EXTRACT OF KEDAYAN ROOTS (ARISTOLOCHIA PAPILLIFOLIA DING HOU)	73
<i>Novermawati Novermawati, Muh. Amir, Islamudin Islamudin</i>	
ACHIEVEMENT OF STUDENTS AFTER LEARNING WITH PROJECT INDEPENDENT PAPERS IN PROGRAMS MAGISTER LANGUAGE ENGLISH AT COURSES EDUCATIONAL BASIS FACULTY OF TEACHER TRAINING AND EDUCATION.....	76
<i>Hardoko Hardoko</i>	

ANALYSIS OF UNIVERSITY STUDENTS' ARGUMENTATION WRITING	81
<i>Yusak Hudiyo, Ahmad Ridhani</i>	
ANALYSIS OF STUDENT CRITICAL THINKING ABILITY IN COLLOID CHART WITH PROBLEM-BASED LEARNING MODEL	85
<i>Jefferson R. Watulingas, Faul Samara, Medi Taruk</i>	
RELATIONSHIP OF EDUCATION 3.0 APPLICATION ON THE ABILITY OF ANDRAGOGY AND PEDAGOGY PROSPECTIVE TEACHER VOCATIONAL SCHOOL	89
<i>Ahmad Mursyidun Nidhom, Setiadi Cahyono Putra, Hari Putranto</i>	
THE DEVELOPMENT OF WORKSHEETS AND ELECTRONIC LEARNING MATERIALS BASED ON PROJECT BASED LEARNING ON THE SUBJECTS OF PHYSICS GRADE XI IN SMAN 1 SAMARINDA (SUBJECT MATTER OF THE WAVE)	94
<i>Lukas Pundu, Zulkarnaen Zulkarnaen, Lambang Subagiyo</i>	
PREDICTING STUDENT ACADEMIC PERFORMANCE BY MINING THEIR INTERNET USAGE BEHAVIOUR	99
<i>Utomo Pujiyanto, Mahmuda Muthmainnah</i>	
WRITING ANXIETY AND ITS CAUSES OF PRE-SERVICE TEACHERS IN AN EFL CONTEXT: PRELIMINARY STUDY	102
<i>Dyah Sunggingwati</i>	
IMPLEMENTATION OF LESSON STUDY LEARNING COMMUNITY (LSLC) ON LEARNING SCIENCE OF BIOLOGY IN STATE JUNIOR HIGH SCHOOL 2 SAMARINDA	107
<i>Herliani Herliani, Masitah Masitah</i>	
THE NATURE OF NATION CHARACTER ESTABLISHMENT THROUGH EDUCATIONAL LOCAL UNIQUENESS BASIS (ELUB)	112
<i>Warman Warman, Suryaningsih Suryaningsih, Demsy Salimdeho</i>	
THE EFFECT OF USING L1 IN EFL TEACHING ON SECONDARY SCHOOL STUDENTS' VOCABULARY ACHIEVEMENT	115
<i>Siti Fatimah, Susilo Susilo, Hasby Sjamsir</i>	
COLLABORATIVE LEARNING MODEL WITH COMPUTER SUPPORTED LEARNING APPROACH	121
<i>Hery Nurdyanto, Herman Dwi Surjono, Priyanto Priyanto, Noor Fitrihana</i>	
THE EFFECT OF EMOTIONAL QUOTIENT, ACADEMIC LOYALTY, AND INTERPERSONAL COMMUNICATION ON LECTURERS' PERFORMANCE OF MULAWARMAN UNIVERSITY SAMARINDA	125
<i>Usfandi Haryaka</i>	
THE ROLE OF SCHOOL CULTURE IN THE FORMATION OF STUDENT CHARACTER IN SMPN 4 KAUBUN KABUPATEN KUTAI TIMUR	137
<i>Johansyah Johansyah</i>	
THE EFFECT OF LEADERSHIP STYLE. PROFESSIONAL COMPETENCE, AND WORK DISCIPLINE TOWARD WORK EFFECTIVENESS	142
<i>Yudo Dwiyo</i>	
THE USE OF TECHNOLOGY FOR VOCABULARY INSTRUCTION IN EFL CLASSROOMS: SUPPORT AND CHALLENGES	147
<i>Istanti Hermagustiana, Desy Rusmawaty</i>	
ENHANCEMENT AND RESULTS OF SOCIAL SCIENCE LESSONS ON SOCIAL ISSUES THROUGH EXAMPLE NON EXAMPLE MODELS IN STUDENTS IV SDN 006 SAMARINDA	154
<i>Warsinah Warsinah, Sunarno Sunarno</i>	
DEVELOPING OF FUZZY LEARNING MODULE FOR UNDERGRADUATE STUDENT	158
<i>Hakkun Elmunsyah, Dyah Rosita Anggraeni, Anik Nur Handayani</i>	
THE EMPLOYMENT OF ETHESAURUS TO FACILITATE READING COMPREHENSION AMONG MALAYSIAN ESL STUDENTS	163
<i>Wardatul Akmam Din, Suyansah Swanto, Asmaa Abdul Hameed Alsaqqaf</i>	
DEVELOPING INQUIRY MODEL-BASED DEVICE TO INCREASE LEARNING RESULTS SKILL WRITING A SCIENTIFIC BALANCE OF BIOLOGY PROJECTS	166
<i>Elsje Theodora Maasawet, Wahyu Sekti Retnaningsih, Didimus Tanah Boleng</i>	
THE QUALITY OF INSTRUMENT USED TO MEASURE MATHEMATICAL REASONING ABILITY OF JUNIOR HIGH SCHOOL STUDENT	172
<i>Sugeng Sugeng, Labulan P. M.</i>	

SESSION: TECHNOLOGY

DEVELOPMENT OF WEB-BASED MODULE PROGRAMMING BASICS LESSON IN X CLASS VOCATIONAL HIGH SCHOOL FOR SOFTWARE ENGINEERING EXPERTISE PROGRAM	177
<i>Rhd. Arqom Ahmadi Dwiloka, Syaad Patmanthara, Aji Prasetya Wibawa</i>	
AHP-TOPSIS FOR SELECTION STEP OF LAND TITTLE DEED REGISTRATION PROCESS.....	181
<i>Eko Sebastian, Vina Kamila</i>	
ANALYSIS OF NEED DEVELOPMENT OF BLENDED LEARNING MODEL BASED NINE EVENT INSTRUCTIONAL	190
<i>Sudarman Sudarman, Sugeng Sugeng</i>	
DESIGN OF WEB-BASED LABORATORY VIRTUAL TOUR 360° APPLICATION	195
<i>Didik Dwi Prasetya</i>	
ANALYSIS OF TECHNOLOGY ACCEPTANCE MODEL (TAM) ON E-LEARNING SYSTEM	200
<i>Darmawan Napitupulu, Janner Simarmata, Leon Andretti Abdillah, Muhammad Ikhsan Setiawan, Ansari Saleh Ahmar, Robbi Rahim, Heri Nurdiyanto, Wahyuddin Albra, Dahlan Abdullah, Rahmat Hidayat, Cut Ita Erliana</i>	
DECISION MAKING OF BANANA VARIETIES BASED ON LAND IN SAMARINDA USING ELECTRE METHOD	205
<i>Heliza Rahmania Hatta, Ramaulvi Muhammad Akhyar, Dyna Marisa Khairina, Septya Maharani, Haviluddin Haviluddin, Purnawansyah Purnawansyah</i>	
THE DIFFERENCE OF DIGITAL SIMULATION LEARNING OUTCOMES IN A SUBJECT OF SPREADSHEET BY USING PREZI, ADOBE PREMIERE, AND MICROSOFT OFFICE POWERPOINT	209
<i>Suriaty Suriaty, Dewi Rosita, Andi Rustandi</i>	
LAYERS METHOD IMPLEMENTATION FOR RUBIK’S CUBE SOLUTION.....	213
<i>Robbi Rahim, Ronal Hadi, Rasyidah Rasyidah, Heri Nurdiyanto, Darmawan Napitupulu, Ansari Saleh Ahmar, Leon Andretti Abdillah, Dahlan Abdullah, Muhammad Ikhsan Setiawan, Janner Simarmata</i>	
THE ROLE OF BIG DATA AND CLOUD COMPUTING FOR TECHNOLOGY BASED BUSINESS	218
<i>Leon Andretti Abdillah, Darmawan Napitupulu, Janner Simarmata, Robbi Rahim, Dahlan Abdullah, Andri Pranolo</i>	
FOREST PLANTATION PEST AND DISEASE FORECAST MODEL	223
<i>Andri Pranolo, Siti Muslimah Widyastuti, Azhari Azhari</i>	
USER ACCEPTANCE STUDY ON ACADEMIC INFORMATION SYSTEM IN UNIVERSITY XYZ	228
<i>Darmawan Napitupulu, Rahmi Kartika Jati, Janner Simarmata, Leon Andretti Abdillah, Muhammad Ikhsan Setiawan, Ansari Saleh Ahmar, Robbi Rahim, Heri Nurdiyanto, Wahyuddin Albra, Dahlan Abdullah, Rahmat Hidayat, Cut Ita Erliana</i>	
DEVELOPMENT OF INTERACTIVELY MOBILE INTERACTIVE LEARNING BASED DATABASE WITH PRODUCT DEVELOPMENT USING FRAMEWORK7 FOR VOCATIONAL HIGH SCHOOL STUDENTS	235
<i>Hary Suswanto, Andika Bagus Nur Rahma Putra, Achmad Mursyidun Nidhom</i>	
MOBILE MEDIA DEVELOPMENT BASED LEARNING TO IMPROVE STUDENT LEARNING ASYNCHRONOUS MULTIMEDIA CONTENT IN VOCATIONAL HIGH SCHOOL.....	240
<i>Andika Bagus Nur Rahma Putra, Achmad Mursyidun Nidhom, Kirya Mateeke Moses</i>	
HOTEL RESERVATION SYSTEM BASED LOCAL AREA NETWORK AT SAMARINDA	245
<i>Heny Pratiwi</i>	
READING COMPREHENSION APPLICATION (RCA) ON SMARTPHONE USAGE IN CLASSROOM	251
<i>Endah Endah, Dyah Sunggingwati, Effendi Limbong</i>	
DIGITAL SIGNATURE SECURITY IN DATA COMMUNICATION	256
<i>Robbi Rahim, Andri Pranolo, Ronal Hadi, Rasyidah Rasyidah, Heri Nurdiyanto, Darmawan Napitupulu, Ansari Saleh Ahmar, Leon Andretti Abdillah, Dahlan Abdullah</i>	
TECHNOLOGY OF WEB GIS AND MOBILE GIS FOR AIRPORT BUSINESS AREA DEVELOPMENT	262
<i>Muhammad Ikhsan Setiawan, Otto Fajarianto, Robbi Rahim, Janner Simarmata, Dahlan Abdullah, Ansari Saleh Ahmar, Darmawan Napitupulu, Heri Nurdiyanto, Rahmat Hidayat</i>	
Author Index	