



CONFERENCE PROGRAMS AND ABSTRACT

**The 3rd FIRST 2019 INTERNATIONAL CONFERENCE
FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY
OCTOBER 09-10, 2019
*Palembang, Province of South Sumatera
Indonesia***

Organized by :



Collaborate With :





FOREWORD FROM GENERAL CHAIR 3rd FIRST 2019 INTERNATIONAL CONFERENCE

Welcome to 3rd FIRST 2019, it is with a great pleasure that we extend our warm welcome to all the participants of the 3rd FIRST 2019 International Conference, Forum in Research, Science, and Technology. This conference is held for third times and organized by State Polytechnic of Sriwijaya. The first conference in the series was held in State Polytechnic of Sriwijaya, Palembang, South Sumatera, Indonesia, on October 18-19, 2016, while the second conference was held on October 30-31, 2019 at Horison Ultima Hotel Palembang.

It is a good collaboration of State Polytechnic of Sriwijaya, Management and Science University (MSU), and National Chin-Yi University of Technology (NCUT). **To facilitate the researchers and the community server, the 3rd FIRST 2019 is conjugated with Seminar Nasional Aplikasi Teknologi untuk Masyarakat 2019 (SNAPTEKMAS), “Penerapan Perkembangan Teknologi untuk Meningkatkan Nilai Ekonomi Masyarakat”.**

The 3rd FIRST 2019 International Conference has attracted 109 participants from 6 countries, Malaysia, Japan, Taiwan, and Brunei Darussalam. The 3rd FIRST 2019 particularly encouraged research students and developing academics to present and to discuss new and current work in the field of 3 Tracks, including Engineering and Science (Track 1), Computer Science and ICT (Track 2), and Social Science (Track 3). For the 3rd FIRST 2019, 232 peer reviewed paper by reviewers drawn from the scientific committee, external reviewers and editorial board, however only 192 papers were selected. For SNAPTEMAS 2019, there are only 59 papers that are accepted.

Finally, as the General Chair of the Conference, I would like to express my deep appreciation to all members of the Steering Committee, Technical Program Committee, Organizing Committee and Reviewers who have devoted their time and energy for the success of the event.

At the end, I hope you enjoy the conference and the beauty of Palembang.

Assoc. Prof. Dr. Rita Martini, SE., M.Si., Ak., CA
General Chair of 3rd FIRST 2019



FOREWORD FROM DIRECTOR OF STATE POLYTECHNIC OF SRIWIJAYA

Dear all participants, welcome to Palembang, South Sumatera, Indonesia. It is my great pleasure to have all of you who have come from many parts of the world, to join the 3rd FIRST 2019 International Conference, Forum in Research, Science, and Technology. This conference is initiated and organized by State Polytechnic of Sriwijaya in collaboration with Management and Science University (MSU), and National Chin-Yi University of Technology (NCUT).

It is also my great pleasure to see that this conference is an effective media to link the researchers from many parts of the world. The theme for the 3rd FIRST 2019 International Conference, Forum in Research, Science, and Technology is “Applied Technology for Sustainable Development in Supporting Prosperous Human Existence”. It is expected it will be worthwhile platform for researchers to present their finding in the areas on multidisciplinary of Engineering and Science (Track 1), Computer Science and ICT (Track 2), and Social Science (Track 3). It has also provided an opportunity for the professionals and researchers to learn and share about the latest development and research in those 3 tracks.

Finally, on behalf of the conference committee, I would like to express my gratitude and great appreciation towards all of the authors, reviewers, and participants for the great contribution to ensure the success of this event.

Dr. Ing. Ahmad Taqwa, M.T.
Director of State Polytechnic of Sriwijaya

Organizing Committee

International Advisory Committee

Prof. Erry Yulian Triblas Adesta, International Islamic University, Malaysia
Prof. Nurul Taufiqurrahman, Lembaga Ilmu Pengetahuan Indonesia (LIPI), Indonesia
Prof. Yasushi Kiyoki, Keio University, Japan
Prof. Drs. Tjiptohadi Sawarjuwono M.Ec., Ph.D., Ak., Universitas Airlangga, Indonesia
Prof. Dr. Rahmat Budiarto, Al Baha University, Saudi Arabia
Assoc. Prof. Dr. Augustus E. Osseo-Asare University of Sunderland, United Kingdom
Prof. Dr. Werner Rammense, Cologne University, Germany
Prof. Eddy Yusuf, Ph.D., Management Science University, Malaysia
Prof. Win-jet Luo, Ph.D., National Chin-Yi University of Technology, Taiwan

Steering Committee

Prof. Muhammad Nizam, Ph.D, Universitas Sebelas Maret, Indonesia
Prof. Dr. Mohammad Yeakub Ali, International Islamic University Malaysia
Dr.drh R. Wisnu Nurcahyo, DVM., Universitas Gadjah Mada, Indonesia
Dr. Untung Santoso, M.Si., Universitas Muhammadiyah Malang, Indonesia
Assoc. Prof. Ahmad Hoirul Basori, King Abdulaziz University, Saudi Arabia
Prof. Dr. Ir. Siti Nurmaini, Universitas Sriwijaya, Indonesia
Prof Aldes Lesbani S.Si,M.Si,Ph.D, Universitas Sriwijaya, Indonesia
Yu-Lieh Wu, Ph.D., National Chin-Yi University of Technology, Taiwan
Dr. Zuhadi Zakaria, Politeknik Seberang Perai, Malaysia
Dr. Ing. Ahmad Taqwa, M.T, Politeknik Negeri Sriwijaya, Indonesia
Dr. RD. Kusumanto, MM, Politeknik Negeri Sriwijaya, Indonesia
Dr.Ir.Rusdianasari, M.Si, Politeknik Negeri Sriwijaya, Indonesia
Irsyadi Yani, ST., M.Eng. PhD, Universitas Sriwijaya, Indonesia
Dr. Yohandri Bow, M.Si, Politeknik Negeri Sriwijaya, Indonesia
Dr. Yuli Yetri, M.Si, Politeknik Negeri Padang
Dr. Marieska Verawaty, M.Si., Universitas Sriwijaya, Indonesia
Dr. Eng. Tresna Dewi, M.Eng., Politeknik Negeri Sriwijaya, Indonesia
Dr. Maya Fitri Oktarini S.T., M.T., Universitas Sriwijaya, Indonesia
Ir. Indra Chandra Setiawan, M.T., PT. Toyota Motor Manufacturing, Indonesia

General Chair

Dr.Rita Martini, SE.,M.Si.,Ak.,CA, Politeknik Negeri Sriwijaya, Indonesia

General co-Chairs

Carlos R. Sitompul, S.T.,M.T., Politeknik Negeri Sriwijaya, Indonesia
Ir. Jaksen M. Amin, M.Si, Politeknik Negeri Sriwijaya, Indonesia
Ade Silvia HAndayani, S.T, M.T., Politeknik Negeri Sriwijaya, Indonesia

Publication Chairs

Deris Stiawan, M,Kom, PhD., Universitas Sriwijaya, Indonesia
Desloehal Djumrianti, S.E., MIS., PhD, Politeknik Negeri Sriwijaya, Indonesia
Nyayu Latifah Husni, S.T., M.T, Politeknik Negeri Sriwijaya, Indonesia

Technical Program Chairs

Muhammad Abu Bakar Sidik, S.T., M.Eng., Ph.D, Universitas Sriwijaya, Indonesia
Reza Firsandaya Malik, S.T., M.T., Ph.D, Universitas Sriwijaya, Indonesia
Dr. Herlambang Saputra, S.Pd., M.Kom., Politeknik Negeri Sriwijaya, Indonesia

Finance Chairs & Treasurer

Dr. Marieska Lupikawati, S.E., M.M, Politeknik Negeri Sriwijaya, Indonesia

Public Relation Chairs

Ir. Irawan Rusnadi, M.T. , Politeknik Negeri Sriwijaya, Indonesia
Drs Zakaria MPd., Politeknik Negeri Sriwijaya, Indonesia
Dra. Tiur Simanjuntak, M.Ed.M, Politeknik Negeri Sriwijaya, Indonesia
Sukandar S.Si.,M.T,Ph.D., Institut Teknologi Bandung, Indonesia
Dr. GK Marriappen, Politeknik Seberang Perai, Malaysia
Ir. Irwin Bizzy, M.T., Universitas Sriwijaya, Indonesia
Dr. Sari Lestari Zainal Ridho, SE., M.Ec, Politeknik Negeri Sriwijaya, Indonesia
Dr. Lambok Vera R Pangaribuan, S.E., M.Si, Ak, Politeknik Negeri Sriwijaya, Indonesia
Dr. Ir.Leila Kalsum, M.T, Politeknik Negeri Sriwijaya, Indonesia
Dr. Martha Aznury, M.Si., Politeknik Negeri Sriwijaya, Indonesia
Dr. Ir. Abu Hasan, M.Si., Politeknik Negeri Sriwijaya, Indonesia
Dr. Leily Nurul Komariah, S.T., M.T., Universitas Sriwijaya, Indonesia
Dr. Rosmalinda Permatasari ST MT, Universitas Tridianti Palembang, Indonesia
Erliza Yuniarti, S.T., M.Eng, Universitas Muhammadiyah Palembang, Indonesia
M. Miftahul Amin, S.Kom., M.Eng., Politeknik Negeri Sriwijaya, Indonesia
Leni Novianti, M.Kom., Politeknik Negeri Sriwijaya, Indonesia
Firdaus, S.T., M.Kom., Universitas Sriwijaya, Indonesia
Syarifah Putri Rafflessia. S.Kom. M.T., Universitas Sriwijaya, Indonesia
Ervi Cofriyanti, S.Si, M.T.I, Politeknik Negeri Sriwijaya, Indonesia

Local Chairs

Firdaus, S.T., M.T., Politeknik Negeri Sriwijaya, Indonesia
Aladin SE, M.Si.,Ak ,CA, Politeknik Negeri Sriwijaya, Indonesia
Dr. Evada Dewata,S.E., M.Si., Ak, CA, Politeknik Negeri Sriwijaya, Indonesia
Dr. M. Syahirman Yusri., M.S., Politeknik Negeri Sriwijaya, Indonesia
Dr. Ir. Aida Syarif, M.T., Politeknik Negeri Sriwijaya, Indonesia
Dr. Neneng Miskiyah, S.E. M.Si., Politeknik Negeri Sriwijaya, Indonesia
Dr. Periansya, M.M., Politeknik Negeri Sriwijaya, Indonesia
Dr. Markoni Badri, S.E., MBA, Politeknik Negeri Sriwijaya, Indonesia
Dr. Heri Setiawan, M.M. , Politeknik Negeri Sriwijaya, Indonesia
Pridson Mandiangan, S.E., M.M., Politeknik Negeri Sriwijaya, Indonesia
Bainil Yulina, S.E., M. Si., Politeknik Negeri Sriwijaya, Indonesia
Adewasti, S.T., M.Kom., Politeknik Negeri Sriwijaya, Indonesia
Hairul, S.T., M.T.,Politeknik Negeri Sriwijaya, Indonesia
Eka Susanti, S.T., M.Kom., Politeknik Negeri Sriwijaya, Indonesia



Yasushi Kiyoki, Professor, Ph.D

Professor of Faculty of Environment and Information Studies and Graduate School of Media and Governance, KEIO University,

Program Chair of “Global Environmental System Leader Program (KEIO GESL): PhD Leading Program in Ministry of Education, Japan,

Former Dean of Graduate School of Media and Governance, KEIO University, 2015 to 2017,

Former President of Database Society of Japan (DBSJ), 2016-2018,

IPSJ(Information Society of Japan) Fellow, 2004,

5D-World Map System Creator : Global Environmental Database System, currently utilized in SDG-14, United Nations-ESCAP:

https://sdghelpdesk.unescap.org/toolboxes?title=&field_sdgs_target_id=All&page=3

(<https://sdghelpdesk.unescap.org/toolboxes>)

Address:

KEIO University, JAPAN

Address: 5322 Endo, Fujisawa, Kanagawa, Japan, 252-0882

TEL: +81-466-47-5111

EMAIL: kiyoki@sfc.keio.ac.jp

<http://gesl.sfc.keio.ac.jp/>

<http://www.mdbl.sfc.keio.ac.jp>



Prof. Nurul Taufiqu Rochman, M. Eng, Ph. D

Work Experience

1. Chariman of Nano Center Indonesia (2012-Now)
2. Head of Material and Metallurgical Research Center LIPI (2019-Now)
3. Research Proffesor, Physics Research Center LIPI (2017-Now)
4. The National Research Council (2016-Now)
5. DKI Jakarta Regional Research Council (2018-Now)
6. IABIE Expert Board (2016-Now)
7. Nano Society Board of Trustees of Indonesia
8. Founder and Chairman of Nanotech lobal Innovation Pte. Ltd. (Singapore)

School Attended

KAGOSHIMA UNIVERSITY, JAPAN
Bachelor of Engineering in Material Science, 1995
Master of Engineering in Material Science, 1997
Doctor of Engineering in Material Science and Nanotechnology, 2000
BOGOR AGRICULTURAL UNIVERSITY, INDONESIA
Doctorate in Business and Management, 2011

Intellectual Property

Rochman N.T, K.Yamada, K. Hamaishi, H. Sueyoshi, Metoda Eliminasi Pb dari Paduan Tembaga, Japanese Patent, No Granted 2005-8970 (P2005-8970A); 2005 January.
Rochman N.T, Agus Sukarto Wismogroho. Learning Method of Atomic Motion Phenomena and Crystal Structure Formation of a Material. Patent No. P00200600346; 2006 June 15.
Rochman N.T, Agus Sukarto Wismogroho, Wahyu Bambang Widayatno, Andi Wahyu Indrayana, Nur Hendrasto. Methods and Tools for Producing Zinc Oxide Nanoparticles (ZnO) with Electric Plasma Arc Technology. Patent No. P00201000638; 2010 October 12.



Prof. Tjiptohadi Sawarjuwono, M.Ec., Ph. D., Ak.

Name : Tjiptohadi Sawarjuwono, Prof, M.Ec, Ph.D, CPA, CA Occupation : Lecturer at Airlangga University since 1981, rank : IV e Date and Place of Birth : Bandung, 7 September 1953.

Main Activities:

1. Teaching:

- a. Behavioural Accounting for Bachelor and Master Programmes.
- b. Philosophy of Accounting for Bachelor dan Doctorate programmes.
- c. Qualitative Research Methodology for Bachelor and Master Programmes (Accounting and Islamic Study).
- d. Professional Ethics for Bachelor and Master Programmes.

2. Supervising Students at all level of programmes

Other activities

1. Vice Rector for Academic and Student Affairs, Universitas Internasional Semen Indonesia (UISI) since 2015.
2. Accounting supervisor at Mosque Al Falah, the biggest mosque in Surabaya, since 2014.
3. Partner of Accounting Firm Chatim, Atjeng, and Sugeng (CAS), Surabaya, since 2005.

Other experiences

1. Indonesia Accounting Association (IAI), member since 1981. Became the Leader of IAI for 3 periods from 2005 till 2017.
2. Becomes the speaker on various seminars and workshops with topic on a qualitative research method and an Islamic Accounting.
3. Became a leader of Islamic Accounting Forum, Academic Accounting Association. □
4. Editor for several Accounting Journals in Indonesia.



Prof. Win-Jet Luo

Prof. Win-Jet Luo received his master degree in Engineering in 1994 and got his ph.d degree in Engineering in 2000 from National Chen Kung University (NCKU), Taiwan. After getting his ph.d degree, prof. Luo had been teaching in the program of Refrigeration, Air-conditioning and Energy Engineering and program of Electrical Engineering. He was promoted to professor position in 2008. At present, prof. Luo is teaching in Graduate Institute of Precision Manufacturing of National Chin Yi University of Technology (NCUT). Research interests of prof. Luo focus on the computational fluid dynamics, micro electromechanical Systems, ventilation, energy saving, fuel cells and micro-sensors. Prof. Luo has more than 70 journal papers published in the famous international journals and serves the reviewers of the journals. In 2012, 2014 and 2018, he got the engineering paper awards from Taiwan Society of Refrigerating and Air-Conditioning Engineers (TSHRAE). From 2013 to 2019, prof. Luo was nominated as dean of engineering college of NCUT. From 2014 to 2017, he was nominated as the president of TSHRAE and the consultant of council of heat pump engineering in Taiwan as well. He is also a member of Higher Education Evaluation and Accreditation Council of Taiwan. From 2014 to 2019, he has being gotten the honors of distinguished professor of NCUT as well.



Dr. med. vet. Wisnu Nurcahyo, DVM

Professional background:

1. Lecturer at Department of Parasitology, Faculty of Veterinary Medicine, Universitas Gadjah Mada since 1990
2. Director of Graduate Program of Veterinary Science UGM 2012-2016.
3. Chairman of Indonesian Society of Veterinary Parasitology since 2014
4. National Coordinator of Community Service in Directorate of Research and Community Services, Indonesian Ministry of Research, Technology and Higher Education since 2012.

Office : Department of Parasitology, FVM UGM, Yogyakarta

Jl. Fauna 2, Yogyakarta 55281

Phone : 0062274 560862 Facs : 0062274 560861

Mobile : 0062-81325257887

Email: wisnu-nc@ugm.ac.id, wisnunurcahyo@yahoo.com

Educational background:

1. Training on Tropical Veterinary Parasitology, Institut fuer Parasitologie und Tropische Krankheit, Veterinarmedizinische Fakultae der Freien Universitaet (FU) Standort Mitte, Berlin, Germany. 1993
2. PhD in Molecular Parasitology (Isolation and characterization of recombinant Variance Surface Glycoprotein Trypanosoma congolence in Escherichia coli), Freie Universitaet (FU) Berlin, Germany(DAAD Scholarship), 1993-1998
3. Postdoctoral Research Fellowship, Institut fuer Molekularparasitologie der Humboldt Universitaet zu Berlin (HU) Berlin, Germany. 2004

Research interest

Parasitology and Wildlife Conservation



Associate Professor Dr Intan Z. Mat Darus

Associate Professor Dr Intan Z. Mat Darus is an Associate Professor of School of Mechanical Engineering and Associate Chair of Academic Development in the Office of Undergraduate Studies, Universiti Teknologi Malaysia.

Associate Professor Dr Intan Z. Mat Darus was born in Malaysia, in September 16th, 1976. She received her First Class B.Eng. (Hons.) degree in Mechanical Engineering from the University of Wales College Cardiff, Wales, United Kingdom in 1998 and later her Ph.D. in Automatic Control and Systems Engineering from the University of Sheffield, United Kingdom in 2004. Her current research interests are instrumentation measurement and control, modelling and simulation of dynamical system, modelling and control of thermal energy, systems and application, soft computing techniques, evolutionary algorithms, artificial intelligent, robotic and automation system. She is currently the International editorial board member of the Journal of Low Frequency Noise, Vibration and Active Control, Journal of Artificial Intelligence Research (AIR), Jurnal Mekanikal and Journal of Institute Engineer Malaysia (IEM). Associate Professor Dr Intan Z. Mat Darus has published over 140 journal and conference papers and funded over 30 research and industrial collaboration and consultancy projects in the area of robotic and automation, thermal energy, artificial intelligent, evolutionary algorithm, instrumentation, measurement and control. She gained several research and service awards including from the Ministry of Science and Technology and Innovation Malaysia and several research awards from Seoul International Invention Fair. She has supervised over 60 postgraduate research students since 2004. Associate Professor Dr Intan Z. Mat Darus had 20 years of program development and teaching experience in the undergraduate and postgraduate studies at the Universiti Teknologi Malaysia since 1999.

RUNDOWN

3rd FIRST 2019 INTERNATIONAL CONFERENCE (FORUM IN RESEARCH SCIENCE AND TECHNOLOGY) SNAPTEKMAS (Seminar Nasional Aplikasi Teknologi pada Masyarakat) 2019

**The Excelton Hotel Palembang, South Sumatera, Indonesia
Wednesday-Thursday, October 9-10, 2019**

Wednesday, October 9, 2019					
The Excelton Hotel Palembang, Diamante Room (M Floor)					
No.	Session	Person in Charge	Time Allotment	Liaison Officer	
1.	Registration	Event Section Committee	07.00 – 08.00	M.Miftakhul Amin, S.Kom., M.Eng	
2.	The Opening Ceremony		08.00 – 08.35		
3.	Do'a				
4.	Tari Tanggai				
5.	Indonesian National Anthem				
6.	Chair Report Speech				
7.	Speech and Opening Remarks by Director of State Polytechnic of Sriwijaya				
8.	Souvenirs Gift, Group Photos				
9.	Coffee Break				
PLENARY SESSION					
No.	Keynote Speaker	Affiliation	Time Allotment	Moderator	Liaison Officer
1.	Prof. Yasushi Kiyoki, Ph.D	KEIO University, Japan	09.00 – 09.30	Tiur Simanjuntak, M.Pd./ Tommy E Sutarto, Ph.D	Dr. Eng. Herlambang, M.Kom
2.	Prof. Win-Jet Luo	National Chin Yi University of Technology (NCUT), Taiwan	09.30 – 10.00		
3.	Assoc. Prof. Ts. Dr. Intan Zaurah Mat Darus	Universiti Teknologi Malaysia	10.00 – 10.30		
4.	Prof. Dr. Nurul Taufiqu Rochman, M.Eng, Ph.D	LIPI	10.30 – 11.00	Dr. Markoni Badri, S.E., M.B.A.	M.Miftakhul Amin, S.Kom., M.Eng
5.	Prof. Drs. Tjiptohadi Sawarjuwono M.Ec., Ph.D., Ak.	Universitas Airlangga, Indonesia	11.00 – 11.30		
6.	Dr. R. Wisnu Nurcahyo, DVM	Universitas Gadjah Mada, Indonesia	11.30 – 12.00		

Break, Sholat Dzuhur, Lunch		12.00 – 13.00			
PARALEL SESSION					
No.	Theme	Room	Time	Moderator	Articles
1.	TRACK 1 (Engineering and Science)	ROOM 1 Electra 3 (2nd Floor)	13.00 – 16.12	Nyayu Latifah Husni, S.T., M.T./ A. M. Shiddiq Yunus, S.T., M. Eng., Ph.d	23
2.	TRACK 1 (Engineering and Science)	ROOM 2 Electra 4 (2nd Floor)	13.00 – 16.12	Dr. Eng. Tresna Dewi, M.Eng/Fatahul Arifin, Ph.D.	23
3.	TRACK 1 (Engineering and Science)	ROOM 3 Electra 5 (2nd Floor)	13.00 – 16.12	Ir. Jaksen, M.Si /Dr. Beni Hidayat	23
4.	TRACK 1 (Engineering and Science)	ROOM 4 Electra 6 (2nd Floor) /SESSION 1	13.00 – 14.36	M.Miftakhul Amin, S.Kom., M.Eng/Agus Subrianto,M.Eng.	12
		ROOM 4 Electra 6 (2nd Floor) /SESSION 2	14.44 – 16.20	M.Miftakhul Amin, S.Kom., M.Eng/Agus Subrianto,M.Eng.	11
5.	TRACK 2 (Computer Science, Computer Engineering, Information System, Informatics Management)	ROOM 5 Electra 1 (2nd Floor)	13.00 – 16.12	Herlambang, M. Kom, Ph.d./R Passarella, M.Eng	23
6.	TRACK 2 (Computer Science, Computer Engineering, Information System, Informatics Management)	ROOM 6 Electra 2 (2nd Floor)	13.00 – 16.12	Ervi Cofriyanti, M.TI / Ozkar Firdausi Hamzah, S.T., M.T., M. Sc	23
7.	TRACK 3 (Social Science)	ROOM 7 Diamante 1 (M Floor)	13.08 – 15.48	Doeslohal Djumrianti, S.E.MIS., Ph.D/Dr. Sari Lestari ZR	20
8.	TRACK 3 (Social Science)	ROOM 8 Diamante 2 (M Floor)	13.00 – 15.56	Dr. Welly/ Heri Setiawan, MM	21
9.	SNAPTEKMAS 1	ROOM 9 Diamante 3 (M Floor)	13.00 – 15.40	Pridson Mandiangan, S.E., M.M M.Si./ Marieska Verawaty, Ph.D.	19

10	SNAPTEKMAS 2	ROOM 10 Diamante 4 (M Floor)	13.00 – 15.48	Dr. Rusdianasari/ Dr. Febrianty	20
11	SNAPTEKMAS 2	ROOM 11 Diamante 5 (M Floor)	13.00 – 15.48	Dr. Indri Ariyanti/ Ade Silvia H, ST, MT	20
12	TRACK 1, TRACK 2 (Engineering and Computer Science)	ROOM 12 Diamante 6 (M Floor)	13.00 – 14.36	HettyMeileni, S.Kom, M.TI/ Alan Novi Tompunu, S.T., M.T.	12
CLOSSING SESSION					
Event			Time	Room	
<ul style="list-style-type: none"> - Closing Ceremony - Announcement of: <ul style="list-style-type: none"> 1. Best Paper FIRST IC 2019 2. Best Paper SNAPTEKMAS 2019 3. Best Presenter FIRST IC 2019 4. Best Presenter SNAPTEKMAS 2019 - Door Prices 			16.30– 17.30	Diamante Ball Room	

Thursday, October 10, 2019
MUSI AND CITY TOUR



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Electrical Engineering)
Room : ROOM 1 (Electra 3, 2nd Floor)
Moderator : Nyayu Latifah Husni, S.T., M.T./A. M. Shiddiq Yunus, S.T., M. Eng., Ph.D
Time : 13.00-16.12 WIB
Articles : 23

ID	Time	Authors	Title	Affiliation
1585	KEYNOTE SPEAKER	Yasushi Kiyoki	A Global Knowledge Sharing and Semantic Computing System with 5-Dimensional World-Map for Natural and Social Environment-Analysis and Visualization	Keio University
1329	13.00 – 13.08	B Alfaresi, Z Nawawi, R F Malik, K Anwar	5G Channel Model for 28 GHz frequency in Palembang	Universitas Sriwijaya
1344	13.08 – 13.16	Suzan Zefi, Eka Susanti, R.A Halimahtussa'diyah, Sholihin	Wireless Sensor Network Data Communication and Information system to Regulate Water Volume and Turbine Rotation	Polsri
1504	13.16 – 13.24	Yurni Oktarina, Tresna Dewi, Pola Risma, Muhammad Nawawi	Tomato Harvesting Arm Robot Manipulator; a Pilot Project	Polsri
1461	13.24 – 13.32	Armin Sofijan, Zainuddin Nawawi, Bakhti Yudho, Rimant Sipahutar, Irwin Bizzy	Performance Evaluation Solar Charge Controller on Solar Power System Home-Based SPV Amorphous 80 Watt-peak	Universitas Sriwijaya
1463	13.32 – 13.40	Sopian Soim, Suroso, Ade Silvia Handayani, Ahmad Taqwa, Nur Shadrina	The Implementation Of YATEBTS Based GSM Using Raspberry Pi	Polsri
1453	13.40 – 13.48	Brendy Chandra Supian Atmodjo and Rinaldy Dalimi	Optimization of Own Electricity Usage with Electricity Supply from Solar Cells at Darajat Geothermal Power Plant	Universitas Indonesia
1588	13.48 – 13.56	Yeni Irdyanti, Rd. Kusumanto, Masayu Anisah, Niksen Alfarizal, Zarmariesyah Erman	Ultrasonic Sensor Application As A Performance Enhancement Of Robot Two Wheels	Polsri
1535	13.56 – 14.04	Nofiansah, M. Noer, Nurhaida, M. Hafidz Aulia	Operation 3 Phase Induction Motor 1 Kw Star Delta System Using Hp (Smart Phone)	Polsri
1487	14.04 – 14.12	Lin Prasetyani, Bayu Ramadhan, Tresna Dewi, William Sarfat	PLC Omron CJ1M CPU-21 Control Modification for Drill Oil Hole Machine in an Automotive Company	Politeknik Manufaktur Astra
1546	14.12 – 14.20	Yessi Marniati, Andri Suyadi, Herman Yani, Sutan Marsus	Characteristics Of Battery Use In Electric Car	Polsri
1570	14.20 – 14.28	Sabilal Rasyad, Evelina Evelina, Amperawan Amperawan, Dewi Permata Sari, Nyayu Latifah Husni	Learning Module Of Analog Electronics Practice	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

1450	14.28 – 14.36	Resti, Nasution, Burlian, Yani	Different metric distances on the k-means method in building a cans waste classification system using the CMYK color model	Universitas Sriwijaya
1447	14.36 – 14.44	Zarkasi	Implementation of Facial Feature Extraction Using Viola-Jones Method for Mobile Robot System	Universitas Sriwijaya
1705	14.44 – 14.52	Rumiasih, Carlos R. Sitompul, Anton Firmansyah, Indah Susanti	Effect Of Load On BLCD Motor	Polsri
1468	14.52– 15.00	D A Pratama, N L Husni, E Prihatini, S Muslimin	Implementation of DSK TMS320C6416T Module in Designed of Sound Detection	Polsri
1606	15.00 – 15.08	Ahmad Taqwa, Tresna Dewi, RD Kusumanto, Carlos R Sitompul, Rusdianasari	Automatic Cooling of a PV System to Overcome Overheated PV Surface in Palembang	Polsri
	15.08 – 15.16	BREAK		
1710	15.16 – 15.24	Hairul, Markori, Indrawasih dan Sudirman Yahya	Analysis Of Performance Test And Consumption Of BLDC 350 W Motor Power To Mechanical Vibration With Variation Of Speed And Load Variation	Polsri
1610	15.24 – 15.32	Zainuddin Idris, M. Yunus, Siswandi, Bambang Guntoro	The Influence Of Change Of An Angle Of Illuminance On Solar Power Generating Capacity 30 Watts In Laboratory Of Electrical Engineering Polytechnic Of Sriwijaya	Polsri
1629	15.32 – 15.40	Yohandri Bow, Adi Syakdani, Muhammad Taufik, Rusdianasari	The Effect of Drying Airflow Rate on H2O Mass Evaporated of Banana Chips Drying using Photovoltaic Solar Panels	Polsri
1711	15.40– 15.48	Benny Junianto, Tresna Dewi, Carlos Sitompul	Development and Feasibility Analysis of Floating Solar Panel Application in Palembang, South Sumatra	Polsri
1533	15.48 – 15.56	A. M. Shiddiq Yunus, Makmur Saini, Sri Suwasti, dan Purwito	Effects of Grid Frequency Drop on the Dynamic Performance of Full Converter Wind Turbine Generator	Politeknik Ujung Pandang
1767	15.56 – 16.04	Nyayu Latifah Husni, Dampito, Abdurrahman, Evelina, Ade Silvia Handayani, Sabilal Rasyad, Adella Rialita	Modified Design for Water Metering System	Polsri
1349	16.04– 16.12	Ade Silvia Handayani, jefri alkausar, Sarjana Sarjana, Nyayu Latifah Husni, Siti Nurmaini, Irsyadi Yani	Implementation Of Fuzzy Logic Type-2 On Mobile Robot Navigation System	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Mechanical and Energy Engineering)
 Room : ROOM 2 (Electra 4, 2nd Floor)
 Moderator : Dr. Eng. Tresna Dewi, M.Eng/Fatahul Arifin, Ph.D
 Time : 13.00 - 16.12 WIB
 Articles : 23

ID	Time	Authors	Title	Affiliation
1637	INVITED SPEAKER	Intan Z. Mat Darus	Intelligent Controller for Flexible Robot Arm	Universiti Teknologi Malaysia
1335	13.00 – 13.08	Hasan Basri, A. Syahrom, Amir Putra Md Saad, A. T. Prakoso, D. Wicaksono, M. I. Amarullah, Tri Satya Ramadhoni	The Analysis of Wear on Artificial Hip Joint with Dimple on Femoral Surface	Universitas Sriwijaya
1350	13.08 – 13.16	Fatahul Arifin, Min-Wen Wang, Guo Wei	Optimal Design of Plasticizing Screw Using Artificial Intelligent Approach	University of Science and Technology, Kaohsiung Taiwan
1336	13.16 – 13.24	Akbar Teguh Prakoso, Ardiyansyah Syahrom, Amir Putra Md Saad, Abdul Hadi Abdul Wahab, Achmad Rendiko Ichsan, Hasan Basri	Mechanical Degredation Model of Porous Fe Scaffolds: Simulation Approach	Universitas Sriwijaya
1437	13.24 – 13.32	Darmawi, Riman Sipahutar, Qomarul Hadi	Scoopy Blade For Low Current River Waterwheel Supporting The Energy Procurement In The Countryside Of Indonesia (Part II)”	Universitas Sriwijaya
1443	13.32 – 13.40	Indra Maulana, Dicky Seprianto, Yossy Yudhianto, Muhammad Najib, Muhamad Azwar	SELT Design as a source of renewable electricity using the Flywheel Generator and Photodiode Sensor	Polsri
1460	13.40 – 13.48	Riman Sipahutar, Diah Kusuma Pratiwi, Darmawi Bayin, Irwin Bizzy, Baiti Hidayati	Analysis of Upgrading Process of South Sumatera Low Rank Coal	Universitas Sriwijaya
1664	13.48 – 13.56	Romli, D Seprianto, DP Putra, and M Rasid	The Effect of Parameters on the Process of Making Objects with Rapid Digital Prototyping Light Processing Technology on the Bending Stress	Polsri
1665	13.56 – 14.04	D Seprianto I, R Sugiantoro, Sproni, and Yahya	The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made with Stereolithography DLP 3D Printer Technology Against Impact Strength	Polsri
1469	14.04 – 14.12	Ismail T, Zainal A, Fusito HY, Rahmad H, Ahmad K, Geby P	Simulation of the Effect of Cutting Angle in Lathe Process on Distribution of Cutting Temperature	Universitas Sriwijaya
1470	14.12 – 14.20	Ismail T, Amrifan S M, Riman S, Irsyadi Y, Sandro O, Fatiandari A	Conduction Heat Rate Analysis of Tool in Titanium Turning Process	Universitas Sriwijaya
1503	14.20 – 14.28	Kun-Ying Li, Win-Jet Luo, Shih-Jie Wei , and Yan-sin Liao	Cooling Channel Design for a Built-in Spindle of a Machine Tool	National Chin-Yi University of Technology,



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

				Taiwan
1521	14.28 – 14.36	Syahril Ardi and Rahardian Faizal Zuhdi	Design of Automatic Control Systems at Loader Output of Snap Gauge Machine in Manufacturing Industry	Politeknik Manufaktur Astra
1522	14.36 – 14.44	Syahril Ardi and Juliantito Ardianto	Design Control Systems of Marking Machine and Total Length Check Damper Assembly Based on Programmable Logic Controller	Politeknik Manufaktur Astra
1531	14.44 – 14.52	Muhammad Yanis, Amrifan Saladin Mohruni, Safian Sharif, Irsyadi Yani, muhammad Zahir	Experimental Vibration Study in Milling Thin- Walled Ti6Al4V under MQL using Coconut Oil as Cutting Fluid	Universitas Sriwijaya
1622	14.52– 15.00	Carolus Bintoro, Vicky Wuwung, Fathurrohman Nurdin	Determination Overlap Ratio On Savonius Twisted Water Turbine Using Numeca Software	Bandung Polytechnic State
1594	15.00 – 15.08	Dharma Manurung, Rinaldy Dalimi	Optimization Electricity Supply for Thousand Island Jakarta Province by Using Hybrid Photovoltaic-Wind Turbine-Diesel Generator- Crude Palm Oil (CPO) Power Plant-Battery System	Universitas Indonesia
	15.08 – 15.16	BREAK		
1607	15.16 – 15.24	Irawan Malik	Study on using Casting Simulation Software for Design and Analysis Gate and Riser in Foundry Industries	Polsri
1624	15.24 – 15.32	Tri Widagdo, Ella Sundari, Eka Satria Martomi	Application Of Vacuum Valve Technology As Afr Settings In 3500 Watt Operated By Methane Gas	Polsri
1654	15.32 – 15.40	Muhammad Rasid, S.T., MT.	Innovation Utilization Of Nitridation Method In Improving Hardness And Corrosion Resistance Of Blacksmiths Crafts	Polsri
1662	15.40– 15.48 (INVITED SPEAKER)	Win-Jet Luo, Nai-Feng Wu, Cheng-Yn Lin, Deri Suhaejji,	Performance Analysis of a Sludge Drying	National Chin-Yi University of Technology, Taichung, Taiwan
1534	15.48 – 15.56	Yan-Lin Wu, Yu-Lieh Wu, Azka Hasya Hanifan	Study on Ventilation Performance in Operating Room with Variation Ventilation Design	National Chin-Yi University of Technology, Taiwan
1761	15.56 – 16.04	Dyos Santoso, Joni Yanto, Zainal Abidin, Muhammad Irfan Dzaky	Effect of the Utilizing Savonius Machine as Auxiliary Starting Device on the Performance of Darrieus Machine	Universitas Sriwijaya
1766	16.04– 16.12	Bunyamin, Kaprawi, Dewi Puspitasari, Sugianto, Nyayu Latifah Husni	Analysis Model for Orifice Flow Meter Correction Factor in Measuring in-Pipe Natural Gas Flow based on Numerical Simulation	Universitas Sriwijaya



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Chemical and Energy Engineering)
Room : ROOM 3 (Electra 5, 2nd Floor)
Moderator : Ir. Jaksen, M.Si/Dr. Beni Hidayat
Time : 13.00-16.12 WIB
Articles : 23

ID	Time	Authors	Title	Affiliation
1367	13.00 – 13.08	Sajaruddin, Leila Kalsum, Zainuddin Muchtar	The Analysis Of Biogas Fermentation Time From Cow Manure On Biodigester Fixed Dome Batch Systems	Polsri
1397	13.08 – 13.16	Hong-Yi Lin, Yu-Lieh Wu, Kai-Siang Yang, Chih-Yung Tseng, Shih-kuo Wu	The Effect of Surface Modification on Heat Transfer of Heat Exchanger	Taiwan (R.O.C.)
1449	13.16 – 13.24	Ida Febriana, Aneasari M, KA Ridwan, Taufik Jauhari	Prototype of Biodiesel Processors Using Waste Oil (Study of The Effect of The Number of CaO Catalyst (Blood Shell Shells) and Reaction Time of The Biodiesel Rendemen))	Polsri
1451	13.24 – 13.32	Moeksin, Ali, Arita	Production Of Ethyl Ester With The Influence Of Electrode Type, Reaction Time And Electric Voltage From Waste Cooking Oil	Universitas Sriwijaya
1452	13.32 – 13.40	Hilwatullisan, M. Zaman, A.Husaini and Siti Chodijah	Biscuit Product Development using Moringa Oleifera Flour as an additional source of nutrition	Polsri
1465	13.40 – 13.48	Selpiana, Prahady Susmanto, Lia Cundari, Dedek Oktari, Omar Ibrahim	The Physical Characteristics of Cracked Plastic Waste	Universitas Sriwijaya
1472	13.48 – 13.56	Sahrul Effendy, Tahdid, Lety Trisnaliani, Sandy A Putra, dan Alifah R Hefyani	The Analysis of The Use Calcium Oxide from Waste Cockle Shells (Anadara Granosa) and Sodium Hydroxide Catalyst on Prototype Biodiesel Processors Using Waste Cooking Oil Reviewed on Yield of Biodiesel	Polsri
1494	13.56 – 14.04	Muhammad Yerizam, Suri Andayana, Utari Oktavia	Effect of Temperature and Starter Concentration on the Fermentation Process in Making MOCAF	Polsri
1524	14.04 – 14.12	L Cundari, M N Fakhri, M Z Rizki	Adsorption of Synthetic Dye by Betel Nuts Activated Carbon in a Fixed-bed Column, Experiments and Prediction of Breakthrough Curves	Univesitas Sriwijaya
1528	14.12 – 14.20	Rusdianasari Rusdianasari, Aida Syarif, Muhammad Yerizam, M. Syahirman Yusi, Leila Kalsum, Yohandri Bow	Effect of Catalysts on the Quality of Biodiesel from Waste Cooking Oil by Induction Heating	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

1539	14.20 – 14.28	Meilianti, Marta Aznury, Yuniar, Sofia, Ismy Farhan, Lidia Agustina	Characterization Of Red Beetroot Soft Jelly Candy With Guava Extract And Gel Colloid Added	Polsri
1540	14.28 – 14.36	Lety Trisnaliani, Dina Eka Pranata, Fatria, Tahdid, KA Ridwan, M. Nurizzman Alfarizi, Mangihut Pandapotan Lumbantoruan	Flow rate effect and NaOH Concentration to CO2 Reduction in Biogas Products Using Absorber	Polsri
1568	14.36 – 14.44	Selastia Yuliati, Fadarina, Mustain Zamhari, and Ibnu Hajar	Prototype Of Tray Dryer Unit For Silica Gel Drying Based On Bagasse	Polsri
1572	14.44 – 14.52	Yuniar, Martha Aznury, Sofiah, Meilianti	Modification of Starch from Yam Taro with Hydrolysis Acid As the Adhesive	Polsri
1576	14.52– 15.00	Robert Junaidi, Abu Hasan, Muhammad Yerizam, Indah Purnamasarii	The Performance of Riverse Osmosis (RO) Membrane in Producing Pure Water	Polsri
1623	15.00 – 15.08	Erwana Dewi, Aisyah Suci N, Elina M	The Concentrations of Dissolved Oxygen in Drinking Water	Polsri
	15.08 – 15.16	BREAK		
1309	15.16 – 15.24	Beni Hidayat, Udin Hasanudin, Muhamad Muslihudin, Syamsu Akmal, Siti Nurdjanah, Neti Yuliana	Growth Kinetics of Saccharomyces cerevisiae and Tape Yeast on The Cassava Pulp Fermentation	Politeknik Negeri Lampung
1318	15.24 – 15.32	Mahlinda and M. Dani Supardan	Distillation of Patchouli Oil Using Firewood and Liquefied Petroleum Gas as Fuel : Effects of Yield, Quality and Cost Analyses	Syiah Kuala University
1713	15.32 – 15.40	Leila Kalsum, Abu Hasan, Rusdianasari, A.Husaini Yohandri Bow	Evaluation of Main Parameter Process of Anaerobic Digestion of Cow Dung in Fixed Dome Biodigester on Methane Gas Quality	Polsri
1716	15.40– 15.48	Arizal Aswan, IrawanRusnadi, Fatria, Zurohaina, Rima Daniar	Re-design pyrolysis reactor prototype for the conversion of plastic waste into liquid fuel	Polsri
1313	15.48 – 15.56	Sri handayani, chandra utami wirawati, sarono sarono, dwi eva nirmagustina	Value Added Analysis Of Beef Floss With Fillers Of Papaya Fruits And Banana Blossom's	Politeknik Negeri Lampung
1319	15.56 – 16.04	Sri Handayani, Dwi Eva Nirmagustina, Muhammad Irfan Affandi ³	Marketing Efficiency Of Organic Rice In Lampung Province	Politeknik Negeri Lampung
1746	16.04– 16.12	Farida Ali, Roval Al Fiqri	Simple Design For Pyrolysis Tools For Making Liquid Smoke And Its Aplication From Rubber Shells And Seeds As Food Preserves	Universitas Sriwijaya



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Civil, Architecture and Geology Engineering Engineering) / SESSION 1
Room : ROOM 4 (Electra 6, 2nd Floor)
Moderator : M.Miftakhul Amin, S.Kom., M.Eng/Agus Subrianto,M.Eng.
Time : **13.00-14.36 WIB**
Articles : 12

ID	Time	Authors	Title	Affiliation
1433	13.00 – 13.08	M A Berawi, P Miraj, H Sidqi, G R Gaffara and Gunawan	Industrial Mapping In Java-Kalimantan-Nusa Tenggara Corridor	Universitas Indonesia
1434	13.08 – 13.16	Mohammed Ali Berawi, Perdana Miraj, Ega R Islamiah, Gefra R Gaffara, Gunawan	Revenue Analysis Of Port-City Conceptual Design	Universitas Indonesia
1456	13.16 – 13.24	Adhitya B B, Pataras M., and Kadarsa E	The Utilization of Plastics Waste in Flexible Pavement Hot Rolled Sheet and Asphalt Concrete Wearing Course with Marshall Immersion and Cantabro Test	Universitas Sriwijaya
1459	13.24 – 13.32	Kurnia A Y, Dewi R, Permata D Y, and Pataras M	Characteristics Comparison of Refinery Asphalt, Rubberized Asphalt, and Buton Asphalt in Stone Matrix Asphalt Pavement with Marshall and Cantabro Method	Universitas Sriwijaya
1514	13.32 – 13.40	Sumiati, Mahmuda, Andi Herius, Agus Subrianto	The Effect Of Polycarboxylate Addition Towards The Workability And High Strength Concrete	Polsri
1525	13.40 – 13.48	Ibrahim,, Andi Herius, Julian Fikri, M. Shaid Ramadhinata, Maryani	Stabilization Of Peat Soils Using Petrasoil With Cement Viewed From Cbr Value And Free Compressive Strength Value Of Soils	Polsri
1578	13.48 – 13.56	Sumiati, Mahmuda, Sukarman, Siswa Indra, and Darma prabudi	The Utilization Of Crushed Clay Brick As Coarse Aggregate On Eco-Green Lightweight Foamed Concrete	Polsri
1580	13.56 – 14.04	Arfan Hasan, Indrayani, Ridho Adrian, Dwiki Syamanda, Darma Budi, and Akhmad Mirza	Performance Analysis Of Patal - Pusri Intersections After Underpass Operated	Polsri
1591	14.04 – 14.12	Raja Marpaung, Kosim, Zainuddin, Darma Prabudi	Utilization Of Coconut Shells As A Of Some Coral Stone In Concrete Making Replacement	Polsri
1708	14.12 – 14.20	A. Latif, Yusri, Moch.Absor, A. Fuad Z.	Public Transportation Service Bus Rapid Transit (BRT) Trans Musi Sustainable in Palembang City	Polsri
1709	14.20 – 14.28	Herlinawati, Puryanto, Sudarmadji, Sazili	Transportation Needed of Bus Rapid Transit (BRT) Corridor in Palembang	Polsri
1656	14.28 – 14.36	R Ahmad, A B Mardhanie, P Suroso, T E Sutarto and R Alfajri	Effect of groundwater table on slope stability and design of retaining wall	Politeknik Negeri Samarinda



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Civil, Architecture and Geology Engineering Engineering) / SESSION 2
 Room : ROOM 4 (Electra 6, 2nd Floor)
 Moderator : M.Miftakhul Amin, S.Kom., M.Eng/ Agus Subrianto, M.Eng.
 Time : **14.44 - 16.20 WIB**
 Articles : 11

1345	14.44 – 14.52	Normaliaty Fithri, Endah Fitriani	Plastic To Fuel Technology As Alternative Operation Of Gas Engine Sukawinatan Waste To Energy In Palembang	Bina Darma University
1663	14.52– 15.00	Tahdid, Aida Syarif, Lety Trisnaliani, Syahrul Effendy	Performance Of 1300 Watt Generator Set Fuelled By A Mixture Of Gasoline And Oil From The Conversion Of Plastic Waste Type Polypropylene (PP) And Low Density Polyethylene (LDPE)	Polsri
1454	15.00 – 15.08	Pamilia Coniwanti, Fitri Hadiyah, Roosdiana Muin, Indira Nur Sakinah, FarraUnzilahKendari Putri, Robinsyah	The Effect Of Cracking Temperature From A Mixture Of Hdpe...	Universitas Sriwijaya
	15.08 – 15.16	BREAK		
1734	15.16 – 15.24	Mahmud Basuki, Selvia Aprilyanti, Azhari, Madagaskar	Design Of Corn Thresher	UTP
1777	15.24 – 15.32	Adi Setiawan, Alex Gusti Randa, Faisal Faisal, Taufiq Bin Nur	Thermal Decomposition Of Gayo Arabica Coffee-Pulp In A Segmented Chamber	Universitas Malikussaleh
1794	15.32 – 15.40	Eka Sri Kandi Putri1, Else Febriana1, Rasyid Ridhol and Marieska Verawaty	Microbial Community In Constructed Wetland During The Treatment Of Domestic Wastewater	Universitas Sriwijaya
1661	15.40– 15.48	Andriani, M.Shubhi Nurul Hadie and Fuji Asema	The Effect Of Geotechnical Characteristics Toward Road Damage At Lowland Area	Andalas University, Padang
1395	15.48 – 15.56	Falisa Falisa, Hendri Chandra, Harnani Harnani	Geochemical Studies Of Claystone Based On Analysis Of Scanning Electron Microscope (SEM), Talangsawah, Merapi District And Surroundings Of Lahat Regency, South Sumatra	Universitas Sriwijaya
1724	15.56 – 16.04	Fitra Ramdhani	The Evaluation Of Mechanical Rheology On Modification Rubber Asphalt	Abdurrab University
1593	16.04– 16.12	Agus Subrianto, Amiruddin Amiruddin, Ibrahim Ibrahim, Ika Sulianti, Nudia Nudia, Salsabila Beladin	Influence Of Water To Foam Ratio On Compressive Strength Of Foamed Mortar As The Road Construction Material	Polsri
1674	16.12 – 16.20	Tommy Ekamitra Sutarto	Effect of bulk density, age, and water content on the erosional strength of streambank soils	Politeknik Negeri Samarinda



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

Theme : TRACK 2 (Computer Science, Computer Engineering, Information System)
 Room : ROOM 5 (Electra 1, 1st Floor)
 Moderator : Herlambang, M. Kom, Ph.d./ R Passarella, M.Eng
 Time : 13.00 - 16.12 WIB
 Articles : 23

ID	Time	Authors	Title	Affiliation
1307	13.00 – 13.08	Erwin, A Rohman, L A Nurjanah, Yurika, D Sinta, Q Al'afwa	Technique automatic for detection and segmentation of optic disc area in retinal image	Universitas Sriwijaya
1308	13.08 – 13.16	Erwin, A Rohman, L A Nurjanah, Yurika, D Sinta, Q Al'afwa	New Techniques For Segmentation And Extraction Retinal Blood Vessels	Universitas Sriwijaya
1330	13.16 – 13.24	Fauzi Rakhmad Firdausi, Arif Djunaidy, Ahmad Muklason	Optimization Of City Bus Routes In Surabaya Using Memetic Algorithm As A Solution To Solve Orienteering Problem	ITS
1346	13.24 – 13.32	Dodo Zaenal Abidin, Siti Nurmaini, Reza Firsandaya Malik, Jasmir Jasmir	A Form Of Preprocessing For Social Media Data Extraction	Universitas Sriwijaya
1347	13.32 – 13.40	Nining Ariati, Dana Indra Sensuse, Putu Wuri Handayani	Factors Affecting Knowledge Sharing Capability Of Doctors In Palembang	UIGM
1348	13.40 – 13.48	Saiful Bukhori	Serious Game Supply Chain Management Agribusiness As A Production Planning Using Cournot Model	University of Jember
1366	15.48 – 13.56	Teuku Roli Ilhamsyah Putra, Muhammad Kalvin	How Electronic Word Of Mount (E-WOM) Affects Purchase Intention With Brand Image As A Mediation Variable : Case Of Xiaomi Smartphone In Student	Universitas Syiah Kuala
1355	13.56 – 14.04	Aryanti Aryanti, Lin Weicong, Lin chih-yi, Billy Brian Henriquez, Ikthison Mekongga, Aaron Raymond See	Smart Cup For Visual Impaired People Based On Arduino	Southern Taiwan University of science and Technology, Tainan, Taiwan
1351	14.04 – 14.12	M A Ahmad1, A R C Hussin, H M Dahlan1, J Mahmood	Challenges Of Teaching In Massive Open Online Course	Universiti Teknologi Malaysia
1371	14.12 – 14.20	Ahmad Nurul Fajar	Service Oriented Architecture and Enterprise Architecture Alignment for Loan Financing System	BINUS
1368	14.20 – 14.28	Albert, Ahmad Nurul Fajar, Nunung Nurul Qomariyah	Analysis Of SOA Framework For Property Real Estate Industry	BINUS
1370	14.28 – 14.36	Surahmat, Alfred Tenggono	Analysis Of Server Virtualization Service Performance Using Citrix Xenserver”	Palcomtech
1372	14.36 – 14.44	Suparto Darudiato, Eliando Eliando	The Pattern Of The Marketing Ground Coffee Beans Using Decision Support System	Matana University



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



1375	14.44 – 14.52	Dewi Wardani, Achmad Khusyaini	The Utilization Of Ontology In Association Rule	Universitas Sebelas Maret
1376	14.52– 15.00	Wardani	The Evaluation Of Semantic Mapping	Universitas Sebelas Maret
1377	15.00 – 15.08	Mardiana and Eka Hartati	Measurement of User Satisfaction Level on Implementation of SISKEUDES Application	Palcomtech
	15.08 – 15.16	BREAK		
1388	15.16 – 15.24	Aditya P. P. Prasetyo, Rendyansyah, Sri Desy Siswanti, Siti Nurmaini, Abdurahman	Garbage Collector Robot (Gacobot) Design For Dry Waste Distribution	Universitas Sriwijaya
1396	15.24 – 15.32	Rezania Agramanisti Azdy, Febriyanti Darnis	Use Of Haversine Formula In Finding Distance Between Temporary Shelter And Waste End Processing Sites	Palcomtech
1676	15.32 – 15.40	Indri Ariyanti, Yusniarti Yusniarti, Sri Wahyuni	Geographic Information Systems Search Test Location For Admission Of New Students In Sriwijaya State Polytechnic Using Location Based Service (LBS) Method	Polsri
1564	15.40– 15.48	Madora, Yusniarti, Wahyuningrum, Noval	Book Catalog Information System In The Reading Room (Library) Web-Based Polytechnic Informatics Management Department Sriwijaya	Polsri
1446	15.48 – 15.56	R Passarella, A S Nugroho, and F N Arsyad	Pull-down Fitness Technique Analysis using Motion Capture	Universitas Sriwijaya
1721	15.56 – 16.04	Meiyi Darlies, Ema Laila, Ali Firdaus, Muhamad Erwin	Analysis of EDFAT Methods in Photography Techniques	Polsri
1358	16.04– 16.12	Heru Fahlevi, Teuku Roli Ilhamsyah Putra and Rina Suryani Oktari	Predicting Cost Recovery Rate of Ischemic Stroke Patients: A Potential Application of Big Data Analysis in Hospital	Universitas Syiah Kuala



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918

Theme : TRACK 2 (Computer Science, Computer Engineering, Information System)
Room : ROOM 6 (Electra 2, 2nd Floor)
Moderator : Ervi Cofriyanti, M.TI/Ozkar Firdausi Hamzah, S.T., M.T., M. Sc
Time : 13.00 - 16.12WIB
Articles : 23

ID	Time	Authors	Title	Affiliation
1448	13.00 – 13.08	Yesi Sriyeni and Maria Veronica	Development Analysis For Numbers And Colors Learning Media	Palcomtech
1455	13.08 – 13.16	Heki Aprianto and Alan Saputro	Animation Design as an Educational Media of Adolescents' Social Behavior Deviation” has been accepted with major revision	Palcomtech
1458	13.16 – 13.24	Syahrul, Pertiwi	Designing Mobile Based User Interface for Promotion of Lakeur Craft Art Application at Balaputra Dewa State Museum	Palcomtech
1464	13.24 – 13.32	Lindawati, I Salamah, Asriyadi, M Fadhli	Prototype of RFID-Based Parking Slot Availability Detection System	Polsri
1466	13.32 – 13.40	DS Sri, FP Rian, Z Ahmad	Mobile Robot Motion Control Based on Static Hand Gesture	Universitas Sriwijaya
1473	13.40 – 13.48	Adelin Adelin, Febria Sri Handayani	Object-Based Design and Modeling Batik Nusantara Catalog Wibatara.com	Palcomtech
1548	13.48 – 13.56	Al Farissi, Halina Mohamed Dahlan, Samsuryadi	Genetic Algorithm Based Feature Selection With Ensemble Methods For Student Academic Performance Prediction	Universitas Sriwijaya
1673	13.56 – 14.04	Suzan Agustri, Dana Indra Sensuse	Information System Strategy Planning in The Private Universities of South Sumatera	Universitas Indo Global Mandiri
1577	14.04 – 14.12	Kintan Rahayu, Leni Novianti, Meivi Kusnandar	Implementation Data Mining With K-Means Algorithm For Clustering Distribution Rabies Case Area In Palembang City	Polsri
1630	14.12 – 14.20	Farizal F	Engine replacement scheduling optimization using Data Mining	Universitas Indonesia
1646	14.20 – 14.28	D. Tri Octafian, Febrianty, Hendra Hadiwijaya	User Experience Analysis On Class I Lpka Palembang Filial E-School	Palcomtech Palembang
1649	14.28 – 14.36	Rika Sadariawati, A. Ari Gunawan, Meivi Kusnandar	Information System Of Student's Final Report And Final Assignment At State Polytechnic Of Sriwijaya With Android Based	Polsri
1653	14.36 – 14.44	Nita Novita, M. Aris Ganiardi, Indri Ariyanti, Delta Khairunnisa	Design Of Semester Exam Scheduling At The State Polytechnic Of Sriwijaya Application	Polsri
1682	14.44 – 14.52	Rike Sucihati, Ahmad Bahri Joni Malyan, Ervi Cofriyanti	Augmented Reality in the Registration Flow for Enterance Examination at State Polytechnic of Sriwijaya Based on Android	Polsri
1683	14.52– 15.00	Leni Novianti, Devi Sartika, Dewi Irmawati, Ienda Meiriska	Design and Build Application of Campus Parking Area for State Polytechnic of Sriwijaya Based on Smartphone	Polsri
1688	15.00 – 15.08	A.Bahri Joni M, Herlambang Saputra, Ahyar Supani, Indarto	Implementation Of Biometric Fingerprint Barbasis Security Doors With Attendance Database On Sriwijaya State Polytechnic	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

15.08 – 15.16		BREAK		
1704	15.16 – 15.24	Ahyar Supani, Yuli Adriani	Designing and Applying Flood Early Warning System with Fuzzy Logic Based on Rainfall and Water Level for Special of Palembang City	Polsri
1707	15.24 – 15.32	Huda Ubaya and Ria Siti Juairiah	Performance of RUS and SMOTE Method on Twitter Spam Data Using Random Forest	Universitas Sriwijaya
1432	15.32 – 15.40	Sanjaya, Kurniawan, Saputra, Azhar	Mobile Android Based Geographic Information System (GIS) Software Development for Tourist Destination Seekers in Palembang City	Universitas Sriwijaya
1441	15.40– 15.48	M. Rudi Sanjaya, Dedy Kurniawan, Ariansyah Saputra, Iman Saladin B Azhar	GIS Android mobile based Software Development for Tourism Objects, Public Places list, Transportations list, and Culinary Places list Using Usability Measurement	Universitas Sriwijaya
1727	15.48 – 15.56	Firdaus, Andre Herviant Julianoa, Naufal Rachmatullaha, Sarifah Putri Rafflesiab, Dinna Yunika Hardiyantib, Ahmad Zarkasi, Ferlita Pratiwi Arisantia, Siti Nurmaini	The impact of Negative to Positive Training Dataset Ratio on Atrial Fibrillation Classification Machine Learning Algorithms Performance	Universitas Sriwijaya
1791	15.56 – 16.04	Yordan Hasan, Abdurrahman, Yudi Wijanarko, Selamat Muslimin, Renny Maulidda	Analysis of ID Card Implementation as the Automatic Door Lock Security in Electrical Engineering Department	Polsri
1785	16.04– 16.12	Annisa Darmawahyuni, Siti Nurmaini, M Naufal Rachmatullah	Analysis of Classifier Performance on ECG Interpretation for Precision Medicine: Which performance metrics should we use?	Universitas Sriwijaya



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

Theme : TRACK 3 (Management Economics, Business Administration, Accounting)
 Room : ROOM 7 (Diamante 1, Ball Room, M Floor)
 Moderator : Doeslohah Djumrianti, S.E.MIS., Ph.D/Dr. Sari Lestari ZR
 Time : 13.08 -15.48 WIB
 Articles : 20

ID	Time	Authors	Title	Affiliation
1718	13.00 – 13.08	Dewi Fadila, Hendra Satrawinata, Mariskha Z, Riska Maulana	Impact of Learning, Socialization and Financial Lifestyle on Student' Intention to Invest in Capital Market	Polsri
1695	13.08 – 13.16	Sulaiman, Bramantyo Muhamad Pangestu, Bainil Yulina, Siska Aprianti	The Effect Of Capital Readiness And E-Commerce Utilization On The Competitiveness Of Micro Small And Medium Enterprises (MSMEs) Woven Palembang	Polsri
1381	13.16 – 13.24	Zulkifli, Martini, Hartati, Widyastuti	Dimensions Of Village Expenditure In Development Sector	Polsri
1394	13.24 – 13.32	Dwi Eva Nirmagustina, Sri Handayani and Luluk Irawati	Comparison Analysis Of Organic Rice And An Organic Rice Added Value Approach	Politeknik Negeri Lampung
1440	13.32 – 13.40	Amalia	Analysis Of Political Connection, Profitability And Capital Intensity Against Tax Avoidance In Coal Companies On The Indonesia Stock Exchange	Palcomtech
1697	13.40 – 13.48	Sari Lestari, Zainal Ridho, Neneng Miskiyah, Muhammad Anshari, Hadi Jauhari ¹	Human Resource Role and Online Strategy	Polsri
1476	13.48 – 13.56	Munparidi, L.Suhairi Hazizma & A.Jalaludin Sayuti	Relationship Model among Employee Engagement, Organizational Commitment and Employee Performance	Polsri
1488	13.56 – 14.04	Gst Ayu Oka Widarti, Esysa Alhadi, Elvia Zahara, Titi Andriani	The Effect of Customer Orientation and Service Quality on Trust and Customer Loyalty	Polsri
1490	14.04 – 14.12	Fetty maretha, yulia pebrianti, rini rini, lisnini	Model of Empowerment as Strategies for Women SMEs Entrepreneurs Competitiveness in Palembang	Polsri
1532	14.12 – 14.20	Koesharijadi, Hardiyansyah and Muhamad Akbar	E-Government Policy, Leadership Commitment, Apparatus Resources Development, And Their Implications On Public Service Performance	Universitas Bina Darma
1537	14.20 – 14.28	Evada Dewata, Yuli Antina Aryani, Yuliana Sari, Aladin	Industrial Clasterization To Improve The Competitiveness Of Small And Medium Industries In The City Of Palembang	Polsri
1542	14.28 – 14.36	Sopian.A.R, Periansya, Ardiyan Natoen, Indra Satriawan	The Influence Of Competence, Leadership, Motivation Work Impact On The Commitment Of Civil State Apparatus In The Office Of The Governor South Sumatera Province	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

1549	14.36 – 14.44	Lupikawaty, Alhamdari, Bustan	Analysis Method Economic Value Added (EVA) of Cosmetics Companies Listed on the Stock Exchange Period 2013-2017	Polsri
1620	14.44 – 14.52	Anggeraini Oktarida, Eka Jumarni Fithri, Lambok Vera Riama, Sri Hartati	Determinants The Quality Regional Financial Statement	Polsri
1538	14.52– 15.00	Susi Ardiani, Sarikadarwati, Henny Yulsiati, Sandrayati	The Effect Of Hospital Image And Service Quality On Customer Loyalty Through Customer Satisfaction As Intervening Variables In Siti Khadijah Hospital In Palembang City	Polsri
1561	15.00 – 15.08	Yevi Dwitayanti, Maria Maria, Nurhasanah Nurhasanah, Rosy Armaini	The Impact Of Village Fund Program Implementation Towards Society Welfare In Indonesia	Polsri
	15.08 – 15.16	BREAK		
1687	15.16 – 15.24	Desi Indriasari, Kartika Rachma Sari, Kiagus Zainal Arifin, Choiruddin	Determinants of Village Financial Management Accountability (Study of Villages in Pampangan Sub-District, OKI Regency and Rambutan Sub-District, Banyuasin Regency)	Polsri
1712	15.24 – 15.32	Elisa, Marieska Lupikawaty, Yusleli Herawati, Purwati	Evaluation of Sales Price within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District Palembang	Polsri
1686	15.32 – 15.40	M. Husni Mubarak, Faridah, Nelly Masnila	The Effect Of Taxpayer Awareness And Tax Sanctions On Compliance In Paying Land And Building Taxes In Bukit Kecil Sub-District Of Palembang	Polsri
1644	15.40– 15.48	M. Yusuf, Yusnizal Firdaus, Markoni Badri, AlHusori	The Environmental Compliance Management Of Palm Oil Plantation In Ogran Komering Ilir Regency, Sumatera Selatan, Indonesia	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

Theme : TRACK 3 (Management Economics, Business Administration, Accounting)
 Room : ROOM 8 (Diamante 2, Ball Room, M Floor)
 Moderator : **Dr. Welly / Heri Setiawan, MM**
 Time : 13.00 – 15.56 WIB
 Articles : 21

ID	Time	Authors	Title	Affiliation
1436	13.00 – 13.08	Nurul Aryanti, Welly Ardiansyah, Murwani Ujihanti	Attitude, Motivation, and Parental Involvement towards Students' Reading Comprehension Achievement	Polsri
1457	13.08 – 13.16	Irmeilyana Irmeilyana, Ali Amran	Relationship between GPA, Length of Study, and Competence with The Length of Time to Get A Job at Alumni of The Mathematics and Natural Sciences, University of Sriwijaya	Universitas Sriwijaya
1509	13.16 – 13.24	Wustari L. Mangundjaya	Testing the Role of Charismatic Leadership, Psychological Climate, and OCB on Resilience	Universitas Indonesia
1512	13.24 – 13.32	Hermina Agustina Mahendrati, Wustari Mangundjaya	Individual Readiness For Change and Affective Commitment To Change: The Mediation Effect Of Technology Readiness On Public Sector	Universitas Indonesia
1515	13.32 – 13.40	Dwi Andriani Puspitasari, Wustari L Mangundjaya	Leader-Member Exchange and Affective Commitment to Change: Mediating Role of Change Self-Efficacy	Universitas Indonesia
1516	13.40 – 13.48	Susilo, Wustari L. Mangundjaya ²	Testing Mediation of Psychological Empowerment, Work Engagement to Affective Commitment to Change	Universitas Indonesia
1547	13.48 – 13.56	Suroso, Wasitoh Meirani, Muhammad Erwin, Ayu Puspasari	Aim, Concept, and Objectives of Education in Islam	Polsri
1550	13.56 – 14.04	Yurnalis, Wustari Mangundjaya	Testing the Impacts of Organizational Justice on Affective Commitment to Change with Work Engagement as Mediator	Universitas Indonesia
1559	14.04 – 14.12	Eliyeny, Herman, Sunani, Muhammad Nadjmuddin	The Effect Of Directed Reading - Thinking Activity On Students' Critical Thinking Abilities	Polsri
1563	14.12 – 14.20	Darmaliana, Risnawati, Risa, Sri Endah Kusmartini	The Development Of Teaching Material Speaking 2 Based On Communicative Approach For Students In English Department Of Sriwijaya Palembang State Politechnic	Polsri
1575	14.20 – 14.28	Heri Setiawan, Taufiq Marwa, Zakaria Wahab, Muchsin Sagaf	Exploring Linkage among Experiential Value, Destination Image and Revisit Intention in Natural-based Tourism	Polsri
1589	14.28 – 14.36	Munaja Rahma, Zakaria, Moehammad Ridhwan	Students' Perception of English Blended Learning in State Polytechnic of Sriwijaya	Polsri
1612	14.36 – 14.44	Pridson Mandiangan, Desloehal Djumrianti, Hanifati	Online Transportation Technology and Women's Driver Communication Skills	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
 phone +62711 353414 Fax: +62711 355918

1618	14.44 – 14.52	Zulkifli zulkifli, nian evawati, koryati koryati	The Importance Of The Language Experience Approach (Lea) In Teaching Reading Comprehension To The Third Semester Of Engineering Students In State Polytechnic Of Sriwijaya	Polsri
1631	14.52– 15.00	Paisal Paisal, Afrizawati Afrizawati, Divianto Divianto, Yahya	The Effect Of Organization Climate On Performance With Job Satisfaction As An Intervening Variable	Polsri
1652	15.00 – 15.08	Suryati, Ahmad Sanmorino	The clustering of paddy fields in the province of South Sumatera as an input for the government in determining policy	UIGM
	15.08 – 15.16	BREAK		
1671	15.16 – 15.24	Deri Darfin, Zulkarnaini, Ridwan Effendi, Robinson,	The Public Service Quality Of The Library Services At The Library Unit Of State Polytechnic Of Sriwijaya	Polsri
1714	15.24 – 15.32	Sri Gustiani, Yusri, Tiur Simanjuntak, Evi Agustinasari	The Effectiveness of Blended Learning Approach on Essay Writing Subject	Polsri
1717	15.32 – 15.40	Hadi Winarko, Zaliah, Aimi	Analysis of Student Services at State Polytechnic of Sriwijaya	Polsri
1467	15.40 – 15.48	Setiawan, Hamid, Bustan, Ummasyroh	The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness	Polsri
1693	15.48 – 16.56	Muhamad Erwin, Carlos RS, Irawan Rusnadi, Ahmad Zamheri, Dicky Seprianto, Alan Novi Tompunu, Meiya Darlies	Criminal Law Policy in the Crime of Persecution carried out by People who Come from Outside Orang Rimba Group Against Members of Orang Rimba Tribe Around the Bukit Duabelas National Park, Jambi Province, Indonesia	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference



Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918

Theme : TRACK 1 (Engineering and Science)
Room : ROOM 12 (Diamante 6, Ball Room, M Floor)
Moderator : HettyMeileni, S.Kom, M.TI/ Alan Novi Tompunu, S.T., M.T.
Time : 13.00-14.36 WIB
Articles : 12

1557	13.00 – 13.08	Hetty Meileni, Cindy Indah Pratiwi, Ienda Meiriska, and Desi Apriyanty	Information System Of Small And Medium Business In Palembang City	Polsri
1560	13.08 – 13.16	Hetty Meileni, Diky Juniansyah Putra, Desi Apriyanti, Indra Satriadi	Inventory Of Goods Data Processing Using The Economic Order Quantity (Eoq) Method	Polsri
1362	13.16 – 13.24	Emilia Hesti, Sholihin, Adewasti, Sarjana	Internet Of Thing For The Robot Comando Commandation System	Polsri
1439	13.24 – 13.32	Idha Silviyati, Nyayu Zubaidah, Jaksen M.Amin, Endang Supraptiah, Rizka Dwi Utami, Iqbal Ramadhan	The Effect Of Addition Of High Density Poly Ethylene (HDPE) As Binder On Hebel Light Brick (CELCON)	Polsri
1640	13.32 – 13.40	Ibnu Ziad, Ali Nudin, Jon Endri, Ciksadan	Implementation Of Fingerprint Control In Majors Electrical Engineering Using Arduino	Polsri
1672	13.40 – 13.48	Erlinawati, A. Zikri, Sutini PL., Agus M., Fathona S.	Biodiesel Production from Bintaro (Cerbera Manghas L) Seeds with Potassium Hydroxide as Catalyst	Polsri
1677	13.48 – 13.56	Djaka Suhirkam, B Hodayat Fuady, Lina Flaviana, Suhadi	The Copper Fiber On Compressive Strength And Elastic Modulus On Concrete FC'25	Polsri
1679	13.56 – 14.04	Irawan Hadi, Abdul Rakhman, Nasron, Martinus Mujur Rose	Information System Feature Development of Telecommunications Engineering Study Program to Support the New Accreditation and the New Curriculum System	Polsri
1696	14.04 – 14.12	Didi Suryana, Almadora Anwar Sani, Azharuddin Azharuddin, Safei Safei, Indra HB	Grip Tool Cnc Mill 3A To Get 12 Sides Of The Elbow On Results Induction Electrical Furnance Casting	Polsri
1698	14.12 – 14.20	Slamet Widodo, M.Miftakhul Amin, Adi Sutrisman, Ervi Cofriyanti, Maulani Puji R	Implementation of Parking Portal Door Security System Using RFID and Password Based on Microcontrollers in Sriwijaya State Polytechnic	Polsri
1798	14.20 – 14.28	Sairul Effendi, Firdaus, Karmin, Romli, Ozkar F. Homzah ¹	Effects of Carburizing Processes on Nodular Cast Iron with Variations in Temperature, Time and Cooling System	Polsri
1799	14.28 – 14.36	Alan Novi Tompunu, Yulian Mirza, and Azwardi	Room Door Security System Using Microcontroller-Based E-KTP	Polsri



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



TABLE OF CONTENTS

TRACK 1.....	1
ELECTRICAL ENGINEERING.....	1
A GLOBAL KNOWLEDGE SHARING AND SEMANTIC COMPUTING SYSTEM WITH 5-DIMENSIONAL WORLD-MAPFOR NATURAL AND SOCIAL ENVIRONMENT-ANALYSIS AND VISUALIZATION	1
5G Channel Model for 28 GHZ Frequency in Palembang	2
B Alfaresi , Z Nawawi , R F Malik, K Anwar.....	2
Wireless Sensor Network Data Communication and Information System to Regulate Water Volume and Turbine Rotation	3
Suzan Zefi ¹⁾ , Eka Susanti ²⁾ , R.A Halimahtussa'diyah ³⁾ , Sholihin ⁴⁾	3
Tomato Harvesting Arm Robot Manipulator; a Pilot Project.....	4
Yurni Oktarina ¹ ,Tresna Dewi ¹ , Pola Risma ¹ , and Muhammad Nawawi ¹	4
Performance Evaluation Solar Charge Controller on Solar Power System Home-Based SPV Amorphous 80 Watt-Peak.....	5
Armin Sofijan ¹ , Zainuddin Nawawi ² , Bhakti Yudho Suprpto ³ , Riman Sipahutar ⁴ , Irwin Bizzy ⁵	5
The Implementation of YateBTS Based GSM Using Raspberry PI.....	6
Sopian Soim ¹⁾ , Suroso ²⁾ , Ade Silvia Handayani ³⁾ , Ahmad Taqwa ⁴⁾ , Nur Shadrina ⁵⁾	6
Optimization of Own Electricity Usage with Electricity Supply from Solar Cells at Darajat Geothermal Power Plant.....	7
Brendy Chandra Supian Atmodjo ¹ and Rinaldy Dalimi ¹	7
Ultrasonic Sensor Application as a Performance Enhancement of Robot Two Wheels.....	8
Yeni Irdyanti ⁽¹⁾ , Rd. Kusumanto ⁽²⁾ , Masayu Anisah ⁽³⁾ , Niksen Alfarizal ⁽⁴⁾ , Zarmariesyah Erman ⁽⁵⁾ ...	8
Operation 3 Phase Induction Motor 1 KW Star Delta System Using HP (Smart Phone).....	9
Nofiansah ¹ , M. Noer ² , Nurhaida ³ , M. Hafidz Aulia ⁴	9
PLC Omron CJ1M CPU-21 Control Modification for Drill Oil Hole Machine in an Automotive Company	10



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Lin Prasetyani 1, Bayu Ramadhan1 , Tresna Dewi2 , William Sarfat1	10
Characteristics of Battery Use in Electric Car.....	11
Yessi Marniati*, Andri Suyadi, Herman Yani, Sutan Marsus**	11
Learning Module of Analog Electronics Practice	12
Sabilal Rasyad, Evelina, Amperawan, Dewi Permata Sari, Nyayu Latifah Husni.....	12
DIFFERENT METRIC DISTANCES ON THE K-MEANS METHOD IN BUILDING A CANS WASTE CLASSIFICATION SYSTEM USING THE CMYK COLOR MODEL	13
Implementation of Facial Feature Extraction Using Viola-Jones Method for Mobile Robot System ...	14
Ahmad Zarkasi ^{1,2} , Siti Nurmaini, Deris Setiawan, Ahmad Kuswandi, Sri Desy Siswanti.....	14
Effect of Load on BLCD Motor.....	15
Rumiasih, Carlos R. Sitompul, Anton Firmansyah, Indah Susanti	15
Implementation of DSK TMS320C6416T Module in Designed of Sound Detection	16
D A Pratama, N L Husni, E Prihatini, S Muslimin	16
Automatic Cooling of a PV System to Overcome Overheated PV Surface in Palembang.....	17
Ahmad Taqwa ^{1,2} , Tresna Dewi ^{1,2} , RD. Kusumanto ^{1,2} , Carlos R Sitompul ^{1,2} , Rusdianasari ¹	17
Analysis of Performance Test and Consumption of BLDC 350 W Motor Power to Mechanical Vibration with Variation of Speed and Load Variation	18
Hairul, Markori, Indrawasih dan Sudirman Yahya	18
The Influence of Change of an Angle of Illuminance on Solar Power Generating Capacity 30 Watts in Laboratory of Electrical Engineering Polytechnic of Sriwijaya.....	19
Zainuddin Idris, M. Yunus, Siswandi, Bambang Guntoro	19
The Effect of Drying Airflow Rate on H ₂ O MASS Evaporated for Banana Chips Drying Using Photovoltaic Solar Panel	20
Yohandri Bow ¹ , Adi Syakdani ² , Muhammad Taufik ² , Rusdianasari ³	20
Development and Feasibility Analysis of Floating Solar Panel Application in Palembang, South Sumatra.....	21
Benny Junianto ¹ , Tresna Dewi ² , Carlos Sitompul ²	21
Effects of Grid Frequency Drop on The Dynamic Performance of Full Converter Wind Turbine Generator.....	22
A. M. Shiddiq Yunus ¹ ,Makmur Saini ² , Sri Suwasti ¹ , dan Purwito Purwito ³	22



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Modified Design for Water Metering System.....	23
Nyayu Latifah Husni ¹ , Dampito ² , Abdurrahman ³ , Evelina ⁴ , ade Silvia Handayani ⁵ , Sabibal Rasyad ⁶ , Adella Rialita ⁷¹⁻⁷ Electrical Department, Politeknik Negeri Sriwijaya	23
Implementation of Fuzzy Logic Type-2 On Mobile Robot Navigation System.....	24
Ade Silvia Handayani, Jefri Alkausar, Sarjana Sarjana, Nyayu Latifah Husni, Siti Nurmaini, Irsyadi Yani.....	24
INTELLIGENT CONTROLLER FOR FLEXIBLE ROBOT ARM	25
The Analysis of Wear on Artificial HIP Joint with Dimple on Femoral Surface	26
Hasan Basri ^{1,*} , A. Syahrom ^{2,3} , Amir Putra Md Saad ² , A. T. Prakoso ¹ , D. Wicaksono ¹ , M. I. Amarullah ¹ , Tri Satya Ramadhoni ¹	26
Optimal Design of Plasticizing Screw Using Artificial Intelligent Approach.....	27
Fatahul Arifin ^{1, 2(*)} , Min-Wen Wang ¹ , Jhen-Wei Kuo ³ , Tzong-Horng Dzw ⁴	27
Mechanical Degradation Model of Porous FE Scaffold: Simulation Approach.....	28
Akbar Teguh Prakoso ¹ , Ardiyansyah Syahrom ^{2,3} , Amir Putra Md Saad ^{2,3} , Abdul Hadi Abdul Wahab ⁴ , M. A. Sulong ^{2,3} , Achmad Rendiko Ichsan ¹ , Apreka Diansyah ¹ , Risky Utama Putra ¹ , Muhammad Imam Ammarullah ¹ , Hasan Basri ^{1*}	28
Scoopy Blade for Low Current River Waterwheel Supporting The Energy Needs in The Rural Areas of Indonesia.....	29
Darmawi ¹ , Riman Sipahutar ² , Irwin Bizzy ³	29
SELT Design as a source of renewable electricity using the Flywheel Generator and Photodiode Sensor	30
Indra Maulana, Dicky Seprianto, Yossy Yudhianto, Muhammad Najib, Muhamad Azwar.....	30
Analysis of Upgrading Process Of South Sumatera Low Rank Coal	31
Riman Sipahutar ¹ , Diah Kusuma Pratiwi ¹ , Darmawi Bayin ¹ , Irwin Bizzy ¹ , Baiti Hidayati ^{1,2}	31
The Effect of Parameters on The Process of Making Objects With Rapid Prototyping Digital Light Processing Technology on The Bending Stress	32
Romli ¹ , D Seprianto ¹ , DP Putra ¹ , M Rasid ¹ and A. Zamheri ¹	32
The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made With Stereolithography DLP 3D Printer Technology against Impact Strength.....	33
D Seprianto ¹ , R Sugiantoro ¹ , Siproni ¹ , Yahya ¹ and M Erwin ²	33
Simulation of the Effect of Cutting Angle in Lathe Process on Distribution of Cutting Temperature ..	34



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Ismail T ¹ , Amrifan SM ² , Irsyadi Y ³ , Riman S ⁴ , Rahmad H ⁵	34
Conduction Heat Rate Analysis of Tool in Titanium Turning Process	35
Ismail T ¹ , Amrifan S M ² , Riman S ³ , Irsyadi Y ⁴ , Sandro O ⁵ , Fatiandari A ⁶	35
Cooling Channel Design for a Built-In Spindle of a Machine Tool.....	36
Kun-Ying Li ^{1,2} , Win-Jet Luo ^{2*} , Shih-Jie Wei ¹ , and Yan-sin Liao ¹	36
Design of Automatic Control Systems at Loader Output of Snap Gauge Machine in Manufacturing Industry	37
Syahril Ardi ¹ and Rahardian Faizal Zuhdi ²	37
The Influence of Change of an Angle of Illuminance on Solar Power Generating Capacity 30 Watts in Laboratory of Electrical Engineering Polytechnic of Sriwijaya.....	38
Zainuddin Idris, M. Yunus, Siswandi, Bambang Guntoro.....	38
The Effect of Drying Airflow Rate on H ₂ O MASS Evaporated for Banana Chips Drying Using Photovoltaic Solar Panel	39
Yohandri Bow ¹ , Adi Syakdani ² , Muhammad Taufik ² , Rusdianasari ³	39
Development and Feasibility Analysis of Floating Solar Panel Application in Palembang, South Sumatra.....	40
Benny Junianto ¹ , Tresna Dewi ² , Carlos Sitompul ²	40
Effects of Grid Frequency Drop on The Dynamic Performance of Full Converter Wind Turbine Generator.....	41
A. M. Shiddiq Yunus ¹ Makmur Saini ² , Sri Suwasti ¹ , dan Purwito Purwito ³	41
Modified Design for Water Metering System.....	42
Nyayu Latifah Husni ¹ , Dampito ² , Abdurrahman ³ , Evelina ⁴ , ade Silvia Handayani ⁵ , Sabilal Rasyad ⁶ , Adella Rialita ⁷¹⁻⁷ Electrical Department, Politeknik Negeri Sriwijaya	42
Implementation of Fuzzy Logic Type-2 On Mobile Robot Navigation System.....	43
Ade Silvia Handayani, Jefri Alkausar, Sarjana Sarjana, Nyayu Latifah Husni, Siti Nurmaini, Irsyadi Yani.....	43
The Analysis of Wear on Artificial HIP Joint with Dimple on Femoral Surface	44
Hasan Basri ^{1*} , A. Syahrom ^{2,3} , Amir Putra Md Saad ² , A. T. Prakoso ¹ , D. Wicaksono ¹ , M. I. Amarullah ¹ , Tri Satya Ramadhoni ¹	44
Mechanical Degradation Model of Porous FE Scaffold: Simulation Approach.....	46



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Akbar Teguh Prakoso ¹ , Ardiyansyah Syahrom ^{2,3} , Amir Putra Md Saad ^{2,3} , Abdul Hadi Abdul Wahab ⁴ , M. A. Sulong ^{2,3} , Achmad Rendiko Ichsan ¹ , Apreka Diansyah ¹ , Risky Utama Putra ¹ , Muhammad Imam Ammarullah ¹ , Hasan Basri ^{1*}	46
Scoopy Blade for Low Current River Waterwheel Supporting The Energy Needs in The Rural Areas of Indonesia.....	47
Darmawi ¹ , Riman Sipahutar ² , Irwin Bizzy ³	47
SELT Design as a source of renewable electricity using the Flywheel Generator and Photodiode Sensor	48
Indra Maulana, Dicky Seprianto, Yossy Yudhianto, Muhammad Najib, Muhamad Azwar.....	48
Analysis of Upgrading Process Of South Sumatera Low Rank Coal	49
Riman Sipahutar ¹ , Diah Kusuma Pratiwi ¹ , Darmawi Bayin ¹ , Irwin Bizzy ¹ , Baiti Hidayati ²	49
The Effect of Parameters on The Process of Making Objects With Rapid Digital Prototyping Light Processing Technology on The Bending Stress	50
Romli ¹ , D Seprianto ¹ , DP Putra ¹ , and M Rasid ¹	50
The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made With Stereolithography DLP 3D Printer Technology against Impact Strength.....	51
D Seprianto ¹ , R Sugiantoro ¹ , Siproni ¹ , Yahya ¹ and M Erwin ²	51
Simulation of the Effect of Cutting Angle in Lathe Process on Distribution of Cutting Temperature ..	52
Ismail T ¹ , Amrifan SM ² , Irsyadi Y ³ , Riman S ⁴ , Rahmad H ⁵	52
Conduction Heat Rate Analysis of Tool in Titanium Turning Process	53
Ismail T ¹ , Amrifan S M ² , Riman S ³ , Irsyadi Y ⁴ , Sandro O ⁵ , Fatiandari A ⁶	53
Cooling Channel Design for a Built-In Spindle of a Machine Tool.....	54
Kun-Ying Li ^{1,2} , Win-Jet Luo ^{2*} , Shih-Jie Wei ¹ , and Yan-sin Liao ¹	54
Design Control Systems of Marking Machine and Total Length Check Damper Assembly Based on Programmable Logic Controller.....	55
Syahril Ardi ¹ and Juliantito Ardianto ²	55
Experimental Vibration Study in Milling Thin-Walled TI6AL4V Under MQL Using Coconut Oil As Cutting Fluid.....	56
M Yanis ^{1*} , A S Mohruni ¹ , S Sharif ² , I Yani ¹ , M Zahir ¹	56
Determination Overlap Ratio on Savonius Twisted Water Turbine Using Numecca Software.....	57
Dr. Carolus Bintoro ¹ , Vicky Wuwung MT ¹ , Fathurrohman Nurdin ²	57



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Optimization Electricity Supply for Thousand Island Jakarta Province by Using Hybrid Photovoltaic-Wind Turbine-Diesel Generator-Crude Palm Oil (CPO) Power Plant-Battery System	58
Dharma Manurung ¹ and Rinaldy Dalimi ¹	58
Study on Using Casting Simulation Software for Design and Analysis Gate and Riser in Small Foundry Industries	59
Irawan Malik ¹ , A S Almadora ² and M Ali ³	59
Application of Vacuum Valve Technology as AFR Settings in 3500 Watt Operated by Methane Gas .	60
Tri Widagdo ¹ , Ella Sundari, Eka Satria martomi ¹	60
Innovation Utilization of Nitridation Method in Improving Hardness and Corrosion Resistance of Blacksmiths Crafts	61
Muhammad Rasid, S.T., MT. ¹	61
Performance Analysis of a Sludge Drying	62
Win-Jet Luo ¹ Nai-Feng Wu ² Cheng-Yan Lin ² Deri Suhaeji ²	62
Study on Ventilation Performance in Operating Room with Variation Ventilation Design	63
Yan-Lin Wu, Yu-Lieh Wu, Azka Hasya Hanifan	63
D Santoso ¹ , Z Abidin ¹ , J Yanto ²	64
Analysis Model for Orifice Flow Meter Correction Factor in Measuring in-Pipe Natural Gas Flow based on Numerical Simulation	65
Bunyamin ¹ , Kaprawi ¹ , Dewi Puspitasari ¹ , Sugianto ² , Nyayu Latifah Husni ³	65
The Analysis of Biogas Fermentation Time from Cow Manure on Biodigester Fixed Dome Batch Systems	66
Sajaruddin ¹ , Leila Kalsum ¹ , Zainuddin Muchtar ²	66
The Effect of Surface Modification on Heat Transfer of Heat Exchanger	67
Hong-Yi Lin, Yu-Lieh Wu, Kai-Siang Yang, Chih-Yung Tseng	67
Prototype of Biodiesel Processors Using Waste Oil (Study of The Effect of The Number of CAO Catalyst (Blood Shell Shells) and Reaction Time of The Biodiesel Rendemen)	68
Ida Febriana ^{1,2} , Anerasari M1, KA Ridwan ¹ , Taufik Jauhari ¹	68
Production of Ethyl Ester with The Influence of Electrode Type, Reaction Time And Electric Voltage from Waste Cooking Oil	69
Rosdiana Moeksin [*]), Farida Ali, Susila Arita	69



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Biscuit Product Development Using Moringa Oleifera Flour as an Additional Source of Nutrition	70
Hilwatullisan ^{1(a)} , M. Zaman ¹ , A.Husaini ¹ and Siti Chodijah ¹	70
The Physical Characteristics of Cracked Plastic Waste	71
Selpiana ¹ , Prahady Susmanto ¹ , Lia Cundari ¹ , Dedek Oktari ² , Omar Ibrahim ²	71
The Analysis of The Use Calcium Oxide from Waste Cockle Shells (<i>Anadara Granosa</i>) and Sodium Hydroxide Catalyst on Prototype Biodiesel Processors Using Waste Cooking Oil Reviewed on Yield of Biodiesel.....	72
Sahrul Effendy, Tahdid, Lety Trisnaliani, Sandy A Putra, dan Alifah R Hefyani.....	72
Effect of Temperature and Starter Concentration on The Fermentation Process in Making MOCAF .	73
Muhammad Yerizam ¹ , Suri Andayana ¹ and Utari Oktavia ¹	73
Adsorption of Synthetic DYE by Betel Nuts Activated Carbon in a Fixed-Bed Column, Experiments And Prediction of Breakthrough Curves.....	74
L Cundari*, M N Fakhri, M Z Rizki	74
Effect of Catalysts on The Quality of Biodiesel from Waste Cooking Oil by Induction Heating	75
Rusdianasari ¹ , Aida Syarif ¹ , Muhammad Yerizam ² , M. Syahirman Yusi ³ , Leila Kalsum ¹ , Yohandri Bow ²	75
Characterization of Red Beetroot Soft Jelly Candy with Guava Extract and Gel Colloid Added.....	76
Meilianti* ¹ , Marta Aznury ¹ , Yuniar ¹ , Sofia ¹ , Ismy Farhan ¹ , Lidia Agustina ¹	76
Flow Rate Effect and NAOH Concentration to CO ₂ Reduction in Biogas Products Using Absorber	77
Lety Trisnaliani ¹ , Dina Eka Pranata ² , Fatria ³ , Tahdid ⁴ , KA Ridwan ⁵ , M. Nurizzman Alfarizi ⁶ , Mangihut Pandapotan Lumbantoruan ⁷	77
Prototype of Tray Dryer Unit for Silica Gel Drying Based on Bagasse	78
Selastia Yulianti ^{1(a)} , Fadarina ¹ , Mustain Zamhari ¹ , and Ibnu Hajar ¹	78
Modification of Starch from Yam Taro with Hydrolysis Acid as The Adhesive	79
Yuniar ^{1,2} , Martha Aznury ¹ , Sofiah ¹ , Meilianti ¹	79
The Performance of Riverse Osmosis (RO) Membrane in Producing Pure Water.....	80
Robert Junaidi ¹ , Abu Hasan ² , dan Muhammad Yerizam ³ , Indah Purnamasarii ⁴	80
Concentrations of Dissolved Oxygen in Drinking Water	81
Erwana Dewi ^{1(a)} , Aisyah Suci N ¹ and Elina M ¹	81
Growth Kinetics of <i>Saccharomyces Cerevisiae</i> and Tape Yeast on the Cassava Pulp Fermentation	82



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Beni Hidayat, Udin Hasanudin, Muhamad Muslihudin, Syamsu Akmal, Siti Nurdjanah, Neti Yuliana	82
Distillation of Patchouli Oil Using Firewood and Liquefied Petroleum Gas as Fuel: Effects of Yield, Quality and Cost Analyses.....	83
Mahlinda and M. Dani Supardan	83
Evaluation of Main Parameter Process of Anaerobic Digestion of Cow Dung in Fixed Dome Biogester on Methane Gas Quality	84
Leila Kalsum, Abu Hasan, Rusdianasari, A.Husaini Yohandri Bow	84
Re-Design Pyrolysis Reactor Prototype for The Conversion of Plastic Waste into Liquid Fuel.....	85
Arizal Aswan, IrawanRusnadi, Fatria, Zurohaina, Rima Daniar	85
Value Added Analysis of Beef Floss with Fillers of Papaya Fruits And Banana Blossom's.....	86
Sri handayani, Chandra utami wirawati, Saroni saroni, Dwi eva nirmagustina.....	86
Marketing Efficiency of Organic Rice in Lampung Province	87
Sri Handayani, Dwi Eva Nirmagustina, Muhammad Irfan Affandi.....	87
Simple design of pyrolysis tool for making liquid smoke from shells and rubber seeds as a food preservative	88
Farida Ali, ¹ Roval Al Fiqri ²	88
Industrial Mapping in Java-Kalimantan-Nusa Tenggara Corridor	89
M A Berawi ¹ , P Miraj ^{2,3} , H Sidqi ² , G R Gaffara ^{2,4} and Gunawan ²	89
Revenue Analysis of Port-City Conceptual Design	90
M A Berawi ¹ , P Miraj ^{2,3} , E R Islamiah ² , and Gunawan ²	90
The Utilization of Plastics Waste in Flexible Pavement Hot Rolled Sheet and Asphalt Concrete Wearing Course With Marshall Immersion and Cantabro Test.....	91
Adhitya B B ¹ , Pataras M ² , and Kadarsa E ³	91
Characteristics Comparison of Refinery Asphalt, Rubberized Asphalt, and Buton Asphalt in Stone Matrix Asphalt Pavement with Marshall and Cantabro Method.....	92
Kurnia A Y ¹ , Dewi R ² , Permata D Y ³ , and Pataras M ⁴	92
The Effect of Polycarboxylate Addition towards The Workability and High Strength Concrete	93
Sumiati ¹ , Mahmuda ² , Andi Herius ³ dan Agus Subrianto ⁴	93



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Stabilization of Peat Soils Using Petrasoil with Cement Viewed from CBR Value and Free Compressive Strength Value of Soils	94
Ibrahim, S.T.,M.T. ¹ , Andi Herius, S.T.,M.T. ² , Julian Fikri, S.S.T., M.Sc. ³ , M. Shaid Ramadhinata ⁴ , Maryani ⁵	94
The Utilization of Crushed Clay Brick as Coarse Aggregate on Eco-Green Lightweight Foamed Concrete.....	95
Sumiati ¹ , Mahmuda ² , Sukarman ³ , Siswa Indra ⁴ , and Darma prabudi ⁵	95
Performance analysis of Patal - Pusri Intersections after underpass operated	96
Arfan Hasan ¹ , Indrayani ¹ , Ridho Adrian ¹ , Dwiki Syamanda ¹ , Darma Budi ¹ , and Akhmad Mirza ¹ .	96
Utilization of Coconut Shells as a Replacement of Some Coral Stone in Concrete Making	97
Raja Marpaung, Kosim, Zainuddin, Darma Prabudi	97
Public Transportation Service Bus Rapid Transit (BRT) Trans Musi Sustainable in Palembang City.....	98
A. Latif, Yusri, Moch.Absor, A. Fuad Z.	98
Transportation Needed of Bus Rapid Transit (BRT) Corridor in Palembang	99
Herlinawati, Puryanto, Sudarmadji, Sazili.....	99
Effect of Groundwater Table on Slope Stability and Design of Retaining Wall	100
R Ahmad ^{1*} , A B Mardhanie ¹ , P Suroso ¹ , T E Sutarto ¹ and R Alfajri ²	100
Falisa ^{1*} , Hendri Chandra ^{2*} , Harnani ^{3*}	108
^{1,3} Teknik Geologi, Universitas Sriwijaya, Indralaya.....	108
² Teknik Mesin, Universitas Sriwijaya, Indralaya	108
* <i>Corresponding author</i> : falisa@unsri.ac.id.....	108
Information System of Small And Medium Business in Palembang City	112
Hetty Meileni, Cindy Indah Pratiwi, Ienda Meiriska, and Desi Apriyanty	112
Inventory of Goods Data Processing Using The Economic Order Quantity (EOQ) Method	113
Hetty Meileni, Diky Juniansyah Putra, Desi Apriyanti, Indra Satriadi, Sony Oktapriandi	113
Internet of Thing for the Command Robot Command System.....	114
Emilia Hesti ¹ , Sholihin ² , Adewasti ³ , Sarjana ⁴	114
The Effect Of Addition Of High Density Poly Ethylene (Hdpe) As Binder On Hebel Light Brick (Celcon)	115



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



The Effect Of Addition Of High Density Poly Ethylene (Hdpe) As Binder On Hebel Light Brick (Celcon)	116
Implementation of Fingerprint Control in Majors Electrical Engineering Using Arduino	117
Ibnu Ziad ¹⁾ , Ali Nudin ²⁾ , Jon Endri ³⁾ , Ciksadan ⁴⁾	117
Biodiesel Production From Bintaro (Cerbera Manghas L) Seeds With Potassium Hydroxide As Catalyst	118
The Copper Fiber On Compressive Strength And Elastic Modulus On Concrete Fc'25	119
Information System Feature Development Of Telecommunications Engineering Study Program To Support The New Accreditation And The New Curriculum System	120
Grip Tool Cnc Mill 3a To Get 12 Sides Of The Elbow On Results Induction Electrical Furnance Casting	121
Implementation Of Parking Portal Door Security System Using Rfid And Password Based On Microcontrollers In Sriwijaya State Polytechnic	122
Technique Automatic For Detection And Segmentation Of Optic Disc Area In Retinal Image	125
Erwin ¹ , B Cania ² , I K Larasati ³	125
New Techniques For Segmentation And Extraction Retinal Blood Vessels	126
Erwin, A Rohman, L A Nurjanah, Yurika, D Sinta, Q Al'afwa	126
Optimization of City Bus Routes in Surabaya Using Memetic Algorithm as a Solution to Solve Orienteering Problem	127
Fauzi Rakhmad Firdausi, Arif Djunaidy, Ahmad Muklason	127
A Form of Preprocessing For Social Media Data Extraction	128
Dodo Zaenal Abidin, Siti Nurmaini, Reza Firsandaya Malik, Jasmir Jasmir	128
Factors Affecting Knowledge Sharing Capability of Doctors in Palembang	129
Nining Ariati, Dana Indra Sensuse, Putu Wuri Handayani	129
Serious Game Supply Chain Management Agribusiness as a Production Planning using Cournot Model	130
Saiful Bukhori	130
Smart Cup for Visual Impaired People Based on Arduino	132
Aryanti Aryanti ¹² , Lin Wei-cong ¹ , Lin chih-yi ¹ , Billy Brian Henriquez ⁴ , Ikhtison Mekongga ³ , Aaron Raymond See ^{1*}	132
Challenges of Teaching in Massive Open Online Course	133



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



M A Ahmad ¹ , A R C Hussin, H M Dahlan ¹ , J Mahmood	133
Analysis of Service Oriented Architecture and Enterprise Architecture Alignment for Loan Financing System.....	134
Ahmad Nurul Fajar	134
Analysis of Service Oriented Architecture and Enterprise Architecture Alignment for Loan Financing System.....	135
Ahmad Nurul Fajar	135
Analysis of Server Virtualization Service Performance Using Citrix XenServer”	136
Surahmat, Alfred Tenggono	136
The Pattern of The Marketing Ground Coffee Beans Using Decision Support System	137
Suparto Darudiato, Eliando Eliando	137
The Pattern of The Marketing Ground Coffee Beans Using Decision Support System	138
Suparto Darudiato, Eliando Eliando.....	138
The Utilization of Ontology in Association Rule.....	139
Dewi Wardani, Achmad Khusyaini	139
The Evaluation of Semantic Mapping	140
Dewi Wardani ¹	140
Measurement of User Satisfaction Level on Implementation of SISKEUDES Application	141
¹ Mardiana and ² Eka Hartati	141
Garbage Collector Robot (GACOBOT) Design for Dry Waste Distribution.....	142
Aditya P. P. Prasetyo, Rendyansyah, Sri Desy Siswanti, Siti Nurmaini, Abdurahman.....	142
Use of Haversine Formula in Finding Distance Between Temporary Shelter and Waste End Processing Sites.....	143
Rezania Agramanisti Azdy, Febriyanti Darnis.....	143
Geographic Information Systems Search Test Location For Admission Of New Students In Sriwijaya State Polytechnic Using Location Based Service (LBS) Method.....	144
Book Catalog Information System in The Reading Room (Library) Web-Based at Informatics Management Department in State Polytechnic of Sriwijaya.....	145
Henny Madora ¹ , Yusniarti ² , Ida Wahyunigrum ³ , Muhammad Noval ⁴	145
Pull-down Fitness Technique Analysis using Motion Capture	146



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



R Passarella, A S Nugroho, and F N Arsyad	146
Analysis of EDFAT Methods in Photography Techniques	147
Meiyi Darlies, Ema Laila, Ali Firdaus, Muhamad Erwin.....	147
Predicting Cost Recovery Rate of Ischemic Stroke Patients: A Potential Application of Big Data Analysis in Hospital	148
^{1*} Heru Fahlevi, ² Teuku Roli Ilhamsyah Putra and ³ Rina Suryani Oktari.....	148
Development Analysis For Numbers And Colors Learning Media	149
Yesi Sriyeni and Maria Veronica.....	149
Animation Design as an Educational Media of Adolescents’ Social Behavior Deviation” has been accepted with major revision	150
Heki Aprianto and Alan Saputro	150
Designing Mobile Based User Interface for Promotion of Lakeur Craft Art Application at Balaputra Dewa State Museum.....	151
Syahrul, Pertiwi	151
Prototype of RFID –Based Parking Slot Availability Detection System	152
Lindawati ¹ , I Salamah ¹ , Asriyadi ¹ , M Fadhli ¹	152
Mobile Robot Motion Control Based on Static Hand Gesture.....	153
DS Sri , FP Rian , Z Ahmad	153
Object-Based Design and Modeling Batik Nusantara Catalog Wibatara.com	154
Adelin Adelin, Febria Sri Handayani.....	154
Genetic Algorithm Based Feature Selection With Ensemble Methods For Student Academic Performance Prediction	155
Al Farissi, Halina Mohamed Dahlan, Samsuryadi.....	155
Information System Strategy Planning In The Private Universities Of South Sumatera.....	156
Engine Replacement Scheduling Optimization Using Data Mining	158
Farizal1 and Albert Joelian	158
User Experience Analysis on Class I LPKA Palembang Filial E-School	159
D. Tri Octafian, Febrianty, Hendra Hadiwijaya	159
Information System of Student’s Final Report And Final Assignment At State Polytechnic of Sriwijaya with Android Based.....	160



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Rika Sadariawati, A. Ari Gunawan, Meivi Kusnandar.....	160
Design of Semester Exam Scheduling at The State Polytechnic of Sriwijaya Application	161
Nita Novita, M. Aris Ganiardi, Indri Ariyanti, Delta Khairunnisa.....	161
Augmented Reality in the Registration Flow for Entrance Examination at State Polytechnic of Sriwijaya Based on Android	162
Rike Sucihati,Ahmad Bahri Joni Malyan, Ervi Cofriyanti	162
Design and Build Application of Campus Parking Area for State Polytechnic of Sriwijaya Based on Smartphone	163
Leni Novianti, Devi Sartika , Dewi Irmawati, Ienda Meiriska	163
Implementation of Biometric Fingerprint Barbasis Security Doors with Attendance Database on Sriwijaya State Polytechnic	164
A.Bahri Joni M , Herlambang Saputra , Ahyar Supani , Indarto	164
Designing and Applying Flood Early Warning System with Fuzzy Logic Based on Rainfall and Water Level for Special of Palembang City	165
Ahyar Supani, Yuli Adriani.....	165
Performance of RUS and SMOTE Method on Twitter Spam Data Using Random Forest.....	166
Huda Ubaya and Ria Siti Juairiah	166
Mobile Android Based Geographic Information System (GIS) Software Development for Tourist Destination Seekers in Palembang City Using RASCH Model Measurements.....	167
Sanjaya, Kurniawan, Saputra, Azhar	167
GIS Android Mobile Based Software Development for Tourism Objects, Public Places List, Transportations List, and Culinary Places List Using Usability Measurement	168
M. Rudi Sanjaya, Dedy Kurniawan, Ariansyah Saputra, Iman Saladin B Azhar	168
TRACK 3	172
MANAGEMENT ECONOMICS, BUSINESS ADMINISTRATION, ACCOUNTING	172
Impact of Learning, Socialization and Financial Lifestyle on Student' Intention to Invest in Capital Market.....	172
Dewi Fadila, Hendra Satrawinata, Mariskha Z, Riska Maulana.....	172
The Effect Of Capital Readiness And E-Commerce Utilization On The Competitiveness Of Micro Small And Medium Enterprises (Msmes) Woven Palembang.....	173
Dimensions of Village Expenditure in Development Sector	174



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Zulkifli Zulkifli, Rita Martini, Sukmini Hartati, Endah Widyastuti.....	174
Comparison Analysis of Organic Rice and an Organic Rice Added Value Approach.....	175
Dwi Eva Nirmagustina, Sri Handayani and Luluk Irawati	175
Analysis of Political Connection, Profitability and Capital Intensity Against Tax Avoidance in Coal Companies on The Indonesia Stock Exchange.....	176
Rizki Fitri Amalia.....	176
Human Resource Role and Application of Technology in the Fourth Industrial Revolution	177
Relationship Model among Employee Engagement, Organizational Commitment and Employee Performance	178
Munparidi, L.Suhairi Hazizma & A.Jalaludin Sayuti.....	178
The Effect of Customer Orientation and Service Quality on Trust and Customer Loyalty	179
Gst Ayu Oka Widarti, Esya Alhadi, Elvia Zahara, Titi Andriani.....	179
Fetty Maretha, Yulia Pebrianti, Rini, Lisnini.....	180
E-government Policy, Leadership Commitment, Apparatus Resources Development, and Their Implications on Public Service Performance.....	181
Koesharijadi, Hardiyansyah and Muhamad Akbar.....	181
Industrial Clasterization to Improve The Competitiveness of Small and Medium Industries in The City of Palembang	182
Evada Dewata, Yuli Antina Aryani, Yuliana Sari, Aladin	182
The Influence Of Competence, Leadership, Motivation Work Impact On The Commitment Of Civil State Apparatus In The Office Of The Governor South Sumatera Province	183
Sopian.A.R, Periansya, Ardiyan Natoen, Indra Satriawan.....	183
Analysis Method Economic Value Added (EVA) of Cosmetics Companies Listed on the Stock Exchange Period 2013-2017.....	184
Lupikawaty, Alhamdari, Bustan	184
Anggeraini Oktarida, Eka Jumarni Fithri, Lambok Vera Riama, Sri Hartati	185
The Effect of Hospital Image And Service Quality on Customer Loyalty Through Customer Satisfaction as Intervening Variables in Siti Khadijah Hospital in Palembang City.....	186
Susi Ardiani, Sarikadarwati, Henny Yulsiati, Sandrayati.....	186
The Impact of Village Fund Program Implementation towards Society Welfare in Indonesia	187



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Yevi Dwitayanti, Maria Maria, Nurhasanah Nurhasanah, Rosy Armaini	187
Determinants of Village Financial Management Accountability (Study of Villages in Pampangan Sub-District, OKI Regency and Rambutan Sub-District, Banyuasin Regency)	188
Desi Indriasari, Kartika Rachma Sari, Kiagus Zainal Arifin, Choiruddin	188
Evaluation of Sales Price within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District Palembang	189
Elisa, Marieska Lupikawaty, Yusleli Herawati, Purwati.....	189
The Effect of Taxpayer Awareness and Tax Sanctions on Compliance In Paying Land And Building Taxes in Bukit Kecil Sub-District of Palembang.....	190
M. Husni Mubarak, Faridah, Nelly Masnila.....	190
The Environmental Compliance Management of Palm Oil Plantation in Ogan Komering Ilir Regency, Sumatera Selatan, Indonesia	191
M. Yusuf, Yusnizal Firdaus, Markoni Badri, AlHusori	191
Attitude, Motivation, and Parental Involvement towards Students' Reading Comprehension Achievement	192
Nurul Aryanti, Welly Ardiansyah, Murwani Ujihanti	192
Relationship between GPA, Length of Study, and Competence with The Length of Time to Get A Job at Alumni of The Mathematics and Natural Sciences, University of Sriwijaya.....	193
Ali Amran ¹ , Irmeilyana ¹ * and Anita Desiani ¹	193
Testing the Role of Charismatic Leadership, Psychological Climate, and OCB on Resilience	194
Wustari L. Mangundjaya	194
Individual Readiness For Change and Affective Commitment To Change: The Mediation Effect Of Technology Readiness On Public Sector	195
Hermina Agustina Mahendrati, Wustari Mangundjaya.....	195
Leader-Member Exchange and Affective Commitment to Change: Mediating Role of Change Self-Efficacy	196
Dwi Andriani Puspitasari, Wustari L Mangundjaya.....	196
Testing Mediation of Psychological Empowerment, Work Engagement to Affective Commitment to Change	197
Susilo ¹ , Wustari L. Mangundjaya ²	197
Aim, Concept, and Objectives of Education in Islam	198



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Suroso ¹ , Wasitoh Meirani ² , Muhammad Erwin ³ , Ayu Puspasari ⁴	198
Testing the Impacts of Organizational Justice on Affective Commitment to Change with Work Engagement as Mediator.....	199
Yurnalis, Wustari Mangundjaya	199
The Effect of Directed Reading - Thinking Activity on Students' Critical Thinking Abilities.....	200
Eliyeny, Herman, Sunani, Muhammad Nadjmuddin	200
The Development of Teaching Material Speaking 2 Based on Communicative Approach for Students in English Department of State Polytechnic of Sriwijaya.....	201
Darmaliana, Risnawati, Risa, Sri Endah Kusmartini.....	201
Exploring Linkage among Experiential Value, Destination Image and Revisit Intention in Natural-based Tourism.....	202
Heri Setiawan, Taufiq Marwa, Zakaria Wahab, Muchsin Sagaf	202
Students' Perception of English Blended Learning in State Polytechnic of Sriwijaya.....	203
Munaja Rahma, Zakaria, Moehammad Ridhwan.....	203
Online Transportation Technology and Women's Driver Communication Skills.....	204
Pridson Mandiangan, Desloehal Djumrianti, Hanifati	204
The Importance of The Language Experience Approach (LEA) in Teaching Reading Comprehension to The Third Semester of Engineering Students in State Polytechnic of Sriwijaya	205
Zulkifli zulkifli, nian evawati, koryati koryati.....	205
The Effect of Organization Climate on Performance with Job Satisfaction as an Intervening Variable	206
Paisal Paisal, Afrizawati Afrizawati, Divianto Divianto, Yahya	206
The Clustering of Paddy Fields in The Province of South Sumatera as an Input for The Government in Determining Policy.....	207
Suryati, Ahmad Sanmorino	207
The Public Service Quality of The Library Services at The Library Unit of State Polytechnic of Sriwijaya	208
Deri Darfin, Zulkarnaini, Ridwan Effendi, Robinson,.....	208
The Effectiveness of Blended Learning Approach on Essay Writing Subject.....	209
Sri Gustiani, Yusri, Tiur Simanjuntak, Evi Agustinasari.....	209



The 3rd FIRST 2019
(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)
International Conference

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia
phone +62711 353414 Fax: +62711 355918



Analysis of Student Services at State Polytechnic of Sriwijaya	210
Hadi Winarko, Zaliah, Aimi.....	210
The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness.....	211
Heri Setiawan ¹ , Abd. Hamid ² , Ummasyroh ³ & Jusmawi Bustan ⁴	211
Criminal Law Policy In The Crime Of Persecution Carried Out By People Who Come From Outside Orang Rimba Group Against Members Of Orang Rimba Tribe Around The Bukit Duabelas National Park, Jambi Province, Indonesia	212

The Influence of Commitment on State Civil Apparatus in the Governor Office of South Sumatera

Sopian.A.R¹, Ardiyan Natoen¹, Indra Satriawan³, Periansya^{1,*}

¹*Departement of Accounting, Politeknik Negeri Sriwijaya, Palembang, Indonesia*

^{*}*Corresponding author. Email: periansya@polsri.ac.id*

ABSTRACT

This research is conducted to know how competence, work motivation, leadership and commitment from civil apparatus to the responsibilities he carries in carrying out the task. The research itself was conducted with an explorative discourse approach using a sample of the state civil apparatus on the Office of the Governor of South Sumatera province. In this study, the analysis techniques used multiple linear regression, in addition, to carried out partial tests and F. From the results of analysis are known that the competency has no effect positive and significantly against the commitment of civil apparatus while the state And leadership have a positive and significant impact on the commitment of state civil apparatus. Furthermore, when tested simultaneously, it is known that the three variables are significantly influential. The conclusion of this research is the necessity of synchronization between competencies and the commitment of the civil apparatus of the state in carrying out government duties, especially in terms of competence so that the employees can realize the commitment and ultimately Employee performance.

Keywords: *competence, motivation, leadership, commitment*

1. INTRODUCTION

The good government is the peace of every Indonesian people as the manifestation of the 4th paragraph of the opening of the state Constitution of the Republic of Indonesia in 1945, which is to build a state that is as real, fair and prosperous. To realize the above, in need of state civil apparatus (ASN) or civil state apparatus is professional and free from the political and clean interests of the practice of corruption, collusion, and nepotism. As a servant and civil servants, the public administration of civilian apparatus must be able to be transparent and accountable in carrying out its functions. Besides being a community servant, the role of ASN is as a state servant in achieving the ideals of the nation.

In conducting the development of the civil apparatus of the state with the government regulation that in carrying out its role should work effectively, efficiently, discipline, professional and accountable so that the development in the way will be able to achieve with maximum (PP53/2015). The impact arising from the empowered work can bring positive results for the development results that have been poured in the regional medium-term Builders plan (RPJMD) by referring to the National Secondary Development Plan (RPJMN).

The work plan outlined in the RPJMD will be implemented by the State civil apparatus for successful development. To support the success of regional development, there is a dedicated bureaucratic performance on each regional device organization (OPD). To produce optimal performance, it is required that the continuous reform is implemented which is an element of

the non-physical development of a government. When the current accuracy and objectives in the work program are considered a problem.

Good governance will result in a good government performance that must be supported by a qualified organization concerning factors such as human resources, capital, machinery, and other resources. But this performance can be realized if there is a high commitment to running the organization. A high commitment will be realized if each state apparatus can understand the objectives of the Organization. With optimal commitment, the preservation will be able to produce optimal performance.

In addition to the high commitment, a good government needs to support the leadership and motivation of the country's apparatus. Leadership and good commitment need adequate competence to achieve the expected performance. Current regional governments by central government regulations are allowed to provide income improvement allowances as an effort to increase revenues. Success in the implementation of local government work is not separated from competence, commitment and leadership as well as the motivation of civil servants [1], [2] which is owned by the officer and commitment as part, not In performance. Competence [3] can give added value to the work done by the officers in achieving the desired performance as well as the leadership [4] that can be a good nurturing and directing subordinates in measurable performance achievements including leaders can motivate subordinates to work seriously including the employee's commitment to perform their work selflessly.

From the data obtained that currently indicates that the quality of public service has not shown the optimal figure visible from the new public satisfaction index at the value

of B +, the new Community Satisfaction Index in value B. In addition to being viewed from the accountability Performance of the Government of South Sumatera is also not optimal where the value of SAKIP District/city average B, and CC, there is no A. This indicates that the community has not gained any satisfaction in dealing with local government agencies. Not optimal service also seen in research [5] which is due to the culture of discipline and incentives.

This research aims to see if the competency factor, leadership, motivation affect the commitment of the State civil apparatus that is the cause of the low quality of public service in the office of the Governor of South Sumatra province.

2. LITERATURE REVIEW

2.1. Leadership

In the theory of leadership, it is said the process of influencing people can be achieved by through self-motivation. That leadership is a person's ability to influence others to achieve its objectives [6]. Therefore, leadership if widely interpreted include influencing processes in determining the objectives of the organization, motivating the behavior of the followers to achieve the objectives, influencing to improve the group and its culture in a matching [7] That the leadership is meant as a process that can direct and also affect other parties who have a job relationship.

To achieve the goal in the leadership of at least three things to note that the first leaders involve others either subordinates or their followers, the second is distributing the power he held and the third able to Influence and mobilize their followers in various ways.

Unwittingly that every leader carries his style, where the style is a norm he uses when it affects the attitudes of others including his subordinates. At present, there are at least two approaches in leadership [7] [8] First approach to transactional leadership (transactional leadership) and Transformational leadership.

A transformational leader's approach is more inclined towards evaluating the ability and potential of each subordinate to perform tasks and at the same time see the possibility to broaden subordinate responsibilities and authority in the future. Conversely, transactional leaders are subject to achievement of goals or objectives but do not seek to develop subordinate responsibilities and authority for subordinate progress. Thus, the difference between the two approaches above. The transformational leader can be interpreted to unite all of his subordinates and able to change the comfort, attitudes and personal goals of each subordinate to achieve the goal, even exceeding the set goals [9].

2.2. Competence

Competence [10] [11] can be interpreted as an ability that is possessed by someone in carrying out its work or tasks based on knowledge, skills and work attitudes required by the job. Competence can be interpreted as an ability of intellectual ability to solve a problem. Also, if further studied that competence is the basic characteristics that a person needs to have that can directly influence the capacity of performance in completing the task at its own. Likewise [12] hinting that one's workability should refer to the individual capacity to work on the various tasks entrusted to him.

2.3. Commitment

Commitment [11] as a relative force for the individual to its organization. The relative strength that exists is a manifestation of a strong relationship with the love of the organization. Each worker must be able to identify an organization with the intent and purpose and hope to remain part of the member of the organization.

Meyer, Allen, and Smith [14] mention three-dimensional commitments in organizing, namely Affective Commitment, Continuance Commitment, and Normative Commitment. These three dimensions relate well to members ' emotional relationships to their organization, identify with organizations, and member involvement with activities in the Organization then awareness of organizational members so that they will suffer losses If leaving the organization and the latter is describing a feeling of attachment to continue to be in the organization. Members of the organization with the high normative commitment will continue to be members in the organization because it feels he must be in the organization. Employees who have a high commitment to an organization will have the loyalty and sense of having an organization; Have a strong desire to keep joining the organization; Then engaged earnestly in his work, and displaying behaviors that are appropriate for the organization's purpose. These three commitments belong to the realm of attitudes or affective commitments that relate to the extent to which a person feels his or her personal goals and objectives are following the objectives of the Organization.

2.4. Motivation

Motivation means to move or movement [15][16], motivation means a condition of individual will in the NFM to move or cause a person to do a deed/activity, which takes place Consciously. Also as a force of resources that move and control human attitudes. The motivation of an effort that can encourage a person to take the desired action, while the motive as the impulse of a person to do. Because a person's behavior tends to be

oriented toward purpose and encouraged by the desire to achieve a particular goal.

It can be said that motivation is a thrust that is governed by purpose and rarely appears in the void. Words of need, desire, desire, and encouragement are all similar to motives, which are the origin of the word of motivation. Understanding motivation is very important because performance, reaction to compensation, and other human resources issues are influenced by and influence motivation. Motivation is a complex problem in the organization because the needs and desires of each member of the organization differ from one another. This is different because each member of an organization is uniquely biologically and psychologically, and develops based on different learning processes.

The success of an organization is believed to depend heavily on its employees. If you do not have a concern for the job, then the officer will not try to do the job appropriately and productively. Motivation to be the driving force to work and Excel, and which is the basis of designing work to be interesting, so that employees will do their job.

3. RESEARCH METHODS

3.1. Types of research

The type of research used in this study is quantitative research. Quantitative research is one of the types of research used to examine certain populations or samples with quantitative data statistics and aims to test a predetermined hypothesis. This research is conducted by providing questionnaires directly to the civil apparatus of the state in South Sumatera province.

3.2. Population and Sample

The population in this study are ASN (state civil apparatus) in the office of the Governor of South Sumatera province. In this study, the technique is used to determine the sample through the Purposive sampling method. The purposive sampling method is a sampling technique with certain criteria. The criteria in this study were that the respondents were the parties directly involved in the activities of personnel, finance and other technical activities where the respondents have educated at least strata one. The number of questionnaires were distributed for 130 respondents and returning as many as 116 respondents.

3.3. Variable Research

Variables in this study consist of independent variables and dependent variables. Independent variables in this

study are competence, leadership, motivation. While the dependencies variable is commitment.

3.4. Research Model

This Model of research uses multiple linear regression. The models in this study are:

$$Y = A + b X_1 + b X_2 + b X_3 + E$$

Description:

Y = Commitment

A = Constants

b = Coefficient of regression

X₁ = Competency Variable

X₂ = motivation Variable

X₃ = Leadership Variables

E = Error

3.5. Data Analysis Techniques

The method of data analysis techniques in this study are:

1. Descriptive statistics
2. Classic Assumption Test
3. Test normality
4. Autocorrelation Test
5. Multicollinearity Test
6. Heteroscedasticity Test
7. Coefficient of determination
8. Hypothesis Test
9. Test statistics T
10. Test statistics F

4. RESULTS AND DISCUSSION

4.1. Test normality

Test data normality is used to know the data is distributed normally or not. This test uses the graphing method and statistical test method of One-Sample Kolmogorov Smirnov. The graph method is to see the spread of data on the diagonal source on the Normal P-P Plot of regression standardized residual graph. As the basis of its decision, if the dots spread around the line and follow the diagonal line, the residual value is normal. One Sample test method Kolmogorov Smirnov with significance value > 0.05 then data distribution is normal, and if the significance of the < 0.05 is not a normal distribution data.

Data normality testing is performed by viewing the data spread (dots) on the diagonal axis of the graph. The basis of decision making is that if the data spread around the diagonal line and follows the direction of the diagonal line, then the regression model meets the normality assumption. In the 4.1 images it appears that the dots are spreading

around the diagonal line, as well as the spread following the direction of the diagonal line.

So it can be concluded that based on the graph probability plot, the regression model fulfills the assumption of normality which means that the data in this study comes from a population that is normally distributed, so this regression model deserves to be used to predict Successful commitment based on its independent variable input: competence, motivation, and leadership.

Besides, the test results of normality than shown by the Normal graph of P-P Plot of regression standardized residual and Normal Histogram chart can also be supported using the Kolmogorov-Smirnov test. The results of One-Sample test Kolmogorov-Smirnov Test in table 1 indicates that the value of Asymp. SIG (2-tailed) residual in this study has a value greater than 0.05 which amounted

to 0.092 for competency variables, motivation, leadership, and commitment. Thus the regression model in the study has been distributed normally so that the available data can be used for regression analysis and can be concluded that regression models on this study have fulfilled the assumption of normality.

4.2. Multicollinearity Test

The multicollinearity test aims to test whether in a regression model found the correlation between independent variables. A good regression model should not correlate with each free variable. A good regression model should not correlate with each free variable.

Tabel 1 Multicollonierity Test

Model		Coefficients ^a							
		Unstandardized Coefficients		Standardized Coefficients		T	Sig.	Collinearity Statistics	
		B	Std. Error	Beta				Tolerance	VIF
1	(Constant)	-3,448	6,112			-,564	,574		
	Competence	,082	,077	,078		1,061	,291	,920	1,086
	Motivation	,632	,092	,523		6,887	,000	,862	1,160
	Leadershp	,254	,081	,248		3,147	,002	,801	1,248

a. Dependent Variable: Total_Commitment

Source: Processed Data, 2019.

According to table 1, it can be noted that the X1 variable tolerance value is 0.920 or more than 0.10 and the variable X1 VIF value is 1.086 or smaller than 10. The tolerance variable value of X2 is 0.862 or greater than 0.10 and the value of the VIF variable X2 is 1.160 or smaller than 10. The value tolerance of the X3 variable is 0.801 or greater than 0.10 and the VIF variable X3 value is 1.248 or smaller than 10. It can be concluded that there is no Multicollinearity problem between the variables in this study.

4.3. Heteroscedasticity test

Heteroscedasticity is a condition in which a regression model occurs a variant inequality of the residual on one observation to another observation. The heteroscedasticity test is seen with a plot graph (scatterplot) in which the spread of the dots caused randomly forms, does not form a specific pattern and the spread direction is above or below 0 on the Y-axis. If the point spread forms a specific pattern, heteroscedasticity occurs.

From the calculate it can be known that the dots are spreading randomly and not forming certain patterns that are orderly and clear. The dots spread above and below the number 0 on the Y-axis. So it can be concluded that there is no heteroscedasticity problem or in other words does not occur similarity variant of the residual on one observation to another observation in the model Regression.

4.4. Multiple linear regression analysis

Based on tabel 1 the calculation of multiple linear regression between human resources competency, motivation, and leadership with SPSS program (Statistical Product and Service Solution) obtained the following results that the regression equation can be interpreted:

1. The constant value of 3, 448 indicate that if the independent variable of competence, motivation, and leadership is 0, then the commitment of-3.448.
2. Variable regression coefficient competence of, 0.082 positive value indicates the relationship between the competency variable and the commitment variable which means if the value of competency variable is up by 1 then the value of commitment will rise Amounting to, 082%. Assuming other free variables are constant.
3. Variable regression coefficients of motivation, 0. 632 positive value indicates a direct connection between the variable motivation with commitment variable which means if the value of the motivation variable rises by 1 then the value of commitment will increase by, 632 %. Assuming other free variables are constant.
4. The variable regression coefficient of the leadership of 0. 254 positive value indicates a direct relationship between the leadership variable and the commitment variable which means if the value of leadership variables rises by 1 then the value of commitment will

rise Amounting to, 254%. Assuming other free variables are constant.

4.5. Coefficient of determination test (R^2)

Table 2 Coefficient of determination test Result (R^2)

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	,667 ^a	,444	,429	3,717	1,409

a. Predictors: (Constant), Competence, Motivation ,Leadership
 b. Dependent Variable: Commitment
 Source: Processed Data, 2019.

Based on the calculate it is known that multiple regression test results are obtained a double correlation coefficient (R) of, 667 or as of 66.7%, and an R2 value of 0.444. Thus the magnitude of influence given by the variable of competence, motivation, and leadership is 44.4%. While the remaining 55.6% is influenced by other factors that are not examined in this study which is not mentioned. The Adjusted value of R Square is 429. It also demonstrates the contributing influence of competence, motivation, and leadership variables by 42.9%. While the remaining 57.1% is influenced by other factors that are not examined in this study which is not mentioned

4.6. Hypothesis Test

4.6.1. Partial significance test (test-T)

Partial testing (test-t) of each independent variable: competence, motivation, and leadership are conducted to test acceptable or rejection a proposed hypothesis. The result of the regression output with SPSS will show the count and its significance values.

The significance of each variable can be seen from the T-count and T-table values of each X variable. If the value of T count > This then individually (partial), the variable x can be expressed to have a significant effect on the variable Y, and if the value of T count < The variable X individually does not have a significant effect on the Y variables. Based on table 1 shows that for the variable competence, Motives, and leadership, each is:

1. Hypothesis 1 Testing (competence)

From the output, SPSS obtained T count of 1,061. To specify a searchable query at significance $0.05/2 = 0.025$ (2-sided test) with a degree of freedom $DF = N - K - 1$ or $116 - 3 - 1 = 112$ (n is the amount of data and K is the number of independent variables). Results are obtained for a This of 1,9812/-1,982 (see the Statistics table). Because the value of < T count ($1.982 < 1.061$) then H1 is rejected. Based on significance, if the significance of < 0.05 then H1 is accepted, and if the significance of > 0.05 then H1 is rejected. Because of the significance on the T-test more than 0.05 ($0.291 >$

0.05) then H1 is rejected. So can be obtained the value of T count 1,982 with a significance value of 0.291, then it can be concluded that the competency is partially no effect and not significant to the quality of commitment.

2. Hypothesis 2 Testing (motivation)

From the output, SPSS obtained T count of 6.887. To specify a searchable query at significance $0.05/2 = 0.025$ (2-sided test) with a degree of freedom $DF = N - K - 1$ or $116 - 3 - 1 = 112$ (n is the amount of data and K is the number of independent variables). Results are obtained for a This of 1,982/-1,982 (see the Statistics table). Because the value of T count > This ($6.887 > 1.982$) then H2 is accepted. Based on significance, if the significance of the < 0.05 then H2 is accepted, and if the significance of > 0.05 then H2 is rejected. Because of the significance on the T-test is less than 0.05 ($0.000 < 0.05$) then H2 is acceptable. So it can be obtained the value of T count 6.887 with a significance value of 0.000, then it can be concluded that the motivation partially influential positive and significant to the commitment.

3. Hypothesis 3 Testing (leadership)

From the output, SPSS obtained T count of 3.147. To specify a searchable query at significance $0.05/2 = 0.025$ (2-sided test) with a degree of freedom $DF = N - K - 1$ or $116 - 3 - 1 = 112$ (n is the amount of data and K is the number of independent variables). Results are obtained for a This of 1,982/-1,982 (see the Statistics table). Because the value of T count > This ($3.147 > 1.981$) then the H3 is accepted.

Based on significance, if the significance of the < 0.05 then the H3 is acceptable, and if the significance > 0.05 then the H3 is rejected. Because of the significance on the T-test less than,002 ($,002 < 0.05$) then the H3 is accepted. So can be obtained T count value of 3, 147with the significance value of,002, then it can be concluded that the leadership partially influential positive and significant to the commitment.

4.6.2. Simultaneous significance test (test-F)

The F test is essentially used to indicate whether all independent variables included in the research model have a simultaneous influence or together against the dependent

variable. If the level of significance is < 0.05 and F count is more $>$ than f table, it can be inferred there is a shared influence between the independent variables (X) of the dependent variable (Y).

Table 3 Simultaneous significance test (test-F)

ANOVA ^a						
Model	Sum of Squares	df	Mean Square	F	Sig.	
1	Regression	1237,012	3	412,337	29,844	,000 ^b
	Residual	1547,436	112	13,816		
	Total	2784,448	115			
a. Dependent Variable: Commitment						
b. Predictors: (Constant), Competence ,Motivation, Leadership						

Source: Processed Data, 2019.

Based on table 3 the F test results can be known f calculate by 29.844. To specify the f table, it can be seen in the statistics table at significance level 0.000 with DF 1 (number of variables-1) = 3, and DF 2 (N-K-1) or 116-3-1 = 112 (n is the amount of data and K is the number of independent variables). Results were obtained for F Table 1 of 2.685 (see in the Statistics table). Because F count $>$ F Table (29.844 $>$ 2.685) then H4 is accepted.

Based on significance, if the significance is < 0.05 then H4 is accepted, and if significant > 0.05 then H4 is rejected. Because of the significance in the F test less than 0.05 (0.000 $<$ 0.05) then the H4 is acceptable. So it can be obtained the value of F count of 22.883 with a significance value of 0.000, then it can be concluded that competence, motivation, and leadership jointly positively and significantly influence the commitment.

4.7. Discussion

4.7.1. Effect of competency on quality of commitment

Based on the results of multiple regression analyses showed that the value of a regression coefficient indicates a value of departure so that it can be interpreted that there is no relationship between competence and commitment. It is based also on the results of the hypothesis testing, the T count value for the competency variable is 1.061 when compared to the value of the This is 1.982 and the value of significance, 291 $>$ 0.05. Therefore, the $<$ This T count can be concluded that the competency variables have no positive and insignificant effect on the commitments. This means that H1 is rejected.

The results of a relationship strength analysis between dependent variables and independent variables or analyses to find out how large the free variables are to explain the bound variables, it is known that the coefficient of

determination of Adjusted R Square of 0.444. This value means that a 44.4% variable regarding commitment is influenced by the competency and the rest is influenced by other variables.

Descriptive statistical testing results also show the average respondent's response to a low-value competency variable. The value shows that the capacity of human resources in the office of the Governor of South Sumatra province is insufficient. So it can be concluded that the human resources of civil apparatus officials of the state governor of South Sumatra province, most still have no impact on the commitment despite its competence has been enough. ASN's commitment is one of the benchmarks for the governance of the area. A good ASN commitment can be determined by human resources in government organizations. Quality human resources, it will produce quality performance also. The success of an organization is not only influenced by human resources, but also human resources competence. Pujanira (2017) human resource competence is important in managing and presenting information, have good skills, a good attitude and carry out the task that is charged to him thereby maximizing his ability.

The results of this research are not in line with many previous studies that the competency positively affects the employee's commitment. This indicates that there is a problem in employee competence that should be positively influential. This finding indicates that there needs to be further mapping why competence has no positive effect on employee commitment.

4.7.2. Effect of motivation on ASN commitment

Based on the results of multiple regression analyses showed that the value of the regression coefficient indicates the positive value, so it can be interpreted that there is a relationship between the motivation to ASN commitments. It is based also on the results of the hypothesis testing, T count value for the variable

motivation is 6.887 when compared to the value of this is 1.982 and the value of significance $0.000 < 0.05$. Then can be seen $T \text{ count} > T_{table}$ so it can be concluded that the motivation variable has a positive and significant effect on commitment. This means that H2 is accepted.

The results of the analysis of the strength of the relationship between dependent variables with independent variables or analyses to find out how large the free variables are to explain the bound variables, it is well known that the determinations of the Adjusted R Square are 42.9. This value means that a 42.9% variable about the ASN commitment is influenced by the motivation and the rest is influenced by other variables. Descriptive statistical testing results also show the average respondent's response to the motivation variable with a fairly high value. This means that in the dimension to motivation has fulfilled and well enough motivation of the ASN, but must remain improved again. The results of this study have not found any similarity of opinion on previous research, so it can be said this is new research.

4.7.2. Leadership influence on ASN commitment

Based on the results of multiple regression analyses indicate that the value of a regression coefficient shows positive value, so it can be interpreted that there is a relationship between leadership and commitment. It is based also on the results of the hypothesis testing, the T count value for the leadership variable is 3.147 when compared to the value of the T_{table} is 1.982 and the significance value is $0.002 < 0.05$. Then can be seen $T \text{ count} > T_{table}$ so Can be concluded that the leadership variables are positive and significant to the commitments. This means that H3 is acceptable.

The results of the analysis of the strength of the relationship between dependent variables with independent variables or analyses to find out how large the free variables are to explain the bound variables, it is well known that the determinations of the Adjusted R Square are 0.429. This value means that a 42.9% variable regarding commitment is influenced by leadership and the rest is influenced by other variables. Descriptive statistical testing results also show the average respondent's response to a leadership variable with the highest value. It means leadership goes as it should and the leader has understood the principle in well but needs to be improved again.

D Influence of competence, motivation, and leadership of ASN commitment

Based on the results of simultaneous regression tests, the F count value is 29.844 when compared to the f table value is 2.685 and the significance value is $0.000 < 0.05$. Then can be seen $F \text{ count} > f \text{ table}$ so it can be concluded that the variable Competence, motivation, and leadership have a positive and significant impact on commitment. This means that H4 is received. In carrying out the government wheel, each area did the disagreements to achieve governance apparatus with good governance. Governance with good governance can be seen from the commitment of the State civil apparatus in carrying out its

obligations that are not only based on job completion but the ASN has a greater responsibility to realize Competitive and powerful performance enhancement. According [17], Human resource is an important factor to be able to realize a quality apparatus. The success of an entity is not only influenced by its human resources but also the competence of its human resources. To realize the commitment of the civil apparatus of the state of quality required a high commitment to accelerate the lag of other regions. important factor to be able to realize a quality apparatus. The success of an entity is not only influenced by its human resources but also the competence of its human resources. To realize the commitment of the civil apparatus of the state of quality required a high commitment to accelerate the lag of other regions.

5. CONCLUSION

This research aims to determine the competence, motivation, and leadership towards the commitment of the civil State apparatus in the office of the Governor of South Sumatera province. Based on the results of the research that has been outlined in the previous discussion the competence does not affect the ASN commitment in the office of the Governor of South Sumatera province. Motivation is positive and significant to the ASN commitment in the office of South Sumatera Province governor. Leadership is positive and significant to the ASN commitment in the office of South Sumatera Province governor. And the last competence, motivation, and leadership positively influence the ASN commitment to the office of the Governor of South Sumatera province. The advice in this study should be seen from the conclusion and the weakness can be described as follows: It is hoped that local leaders can pay attention to competence considering that the analysis has not had a positive relationship with the employee's commitment. Should be upgrading to the civil apparatus of the State to improve the competence of both knowledge, attitude, and skillset. In subsequent studies can add other independent variables that can influence the commitment and performance.

REFERENCES

- [1] Harun, "Analisis Pengaruh Gaya Kepemimpinan dan Budaya Organisasi Pada Komitmen organisasi serta implikasinya terhadap kinerja pegawai negeri sipil dinas pendidikan se provinsi Sumatera Selatan," *J. ecoment Glob.*, vol. 1, no. 1, pp. 63–76, 2016.
- [2] Budiyanto and H. W. Oetomo, "The effect of job motivation, work environment and leadership on organizational citizenship behavior, job satisfaction and public service quality in Magetan, East Java, Indonesia," *World Acad. Sci. Eng. Technol.*, vol.

- 75, no. 3, pp. 192–200, 2011.
- [3] L. Baroroh, P. Budi, and M. Hamdani, “Pengaruh Motivasi Dan Kompetensi Profesional Terhadap Kinerja Pegawai Dengan Komitmen Organisasional Sebagai Variabel Moderasi,” vol. 5, no. 1, pp. 38–46, 2017.
- [4] A. Lotunani, M. S. Idrus, E. Afnan, and M. Setiawan, “The Effect of Competence on Commitment , Performance and Satisfaction with Reward as a Moderating Variable (A Study on Designing Work plans in Kendari City Government , Southeast Sulawesi),” *Int. J. Bus. Manag. Invent.*, vol. 3, no. 2, pp. 18–25, 2014.
- [5] A. Fauzi, “Masyarakat, Meningkatkan Kinerja Aparatur Sipil Negara dalam Melayani,” *Diklat Rev.*, vol. 3, no. 1, 2019.
- [6] T. A. J. Stephen P, Robbins, “Prilaku Organisasi,” Salemba Empat, Jakarta, 2015.
- [7] A.S.D. P. Utami and I. W. Suana, “Pengaruh Kepemimpinan Transaksional Dan Stres Kerja Terhadap Kepuasan Kerja Karyawan Pada PT. PLN (Persero) Area Bali Selatan,” *E-Jurnal Manaj. Unud, ISSN 2302-8912*, vol. 4, no. 4, pp. 960–975, 2015.
- [8] I Made Narsa, “Karakteristik Kepemimpinan: Transformasional versus Transaksional,” *J. Manaj. dan Kewirausahaan*, vol. 14, no. 2, pp. 102–108, 2012.
- [9] H. Handoko and F. Ciptono, “Kepemimpinan Transformasional dan Pemberdayaan,” *J. Ekon. dan Bisnis Indones. Vol 13 No . 2 Tahun 1998*, vol. 11, no. 1, 1996.
- [10] Periansya, “Determinan Kepuasan kerja serta Implikasinya Pada Kinerja Dosen Perguruan Tinggi Negeri di Sumatera Selatan,” UPI YAI, 2016.
- [11] Sedarmayanti, *Manajemen Sumber Daya Manusia Reformasi Birokrasi dan Manajemen Pegawai Negeri Sipil*. Bandung: Refika Aditama, 2007.
- [12] Rivai veithzal, *Manajemen Sumber Daya Manusia Untuk Perusahaan*. Jakarta: PT. Rajagrafindo Persada, 2009.
- [13] G. Dessler, *Manajemen Sumber Daya Manusia*, Edisi 14. Jakarta: Salemba Empat, 2015.
- [14] Khairul Umam, *Perilaku Organisasi*. Bandung: Pustaka Setia, 2010.
- [15] K. Kreitner, Robert, Angelo, *Prilaku Organisasi*, Edisi 9. Jakarta: Salemba Empat, 2014.
- [16] S. Edi, *Manajemen Sumber Daya Manusia*. Jakarta: Kencana, 2014.
- [17] N. K. S. Wati, Kadek Desiana, Nyoman Trisna Herawati, “Pengaruh Kompetensi SDM, Penerapan SAP, Dan Sistem Akuntansi Keuangan Daerah Terhadap Kualitas Laporan Keuangan Daerah,” *e-Journal SI Akunt. Univ. Pendidik. Ganesha Jur. Akunt. Progr. SI*, vol. 2, no. 1, 2014.



CERTIFICATE OF APPRECIATION

Present to

PERIANSYA

in recognition & appreciation of the contribution as

CO AUTHOR

FIRST International Conference
"Integration of Advanced Technology to Enhance Social Welfare"
Held On October, 09-10, 2019
The Excelton Hotel Palembang, Indonesia



Dr. Ing. Ahmad Taqwa, M.T.
Director of State Polytechnic of Sriwijaya



Dr. Rita Martini, S.E., M.Si., Ak., CA.
Chair of the 3rd FIRST 2019

Organized :



Collaborate With :

