



# CONFERENCE PROGRAMS AND ABSTRACT

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

Organized by :



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## **PREFACE**

The 3rd FIRST 2019 (Forum in Research, Science, and Technology) International Conference was initiated and organized by State Polytechnic of Sriwijaya in collaboration with Management and Science, University (MSU), Malaysia and National Chin-Yi University of Technology, Taiwan. The theme of the conference was “Integration of Advanced Technology to Enhance Social Welfare”. The 3rd FIRST 2019 International Conference facilitated the participants from all over the world to meet face to face to open chances in establishing connection and collaboration among them. It was not only for the researchers in academics, but also in industries and governments. This conference became an effective media to link the researchers from many parts of the world conference, for exchanging, sharing, following up and discussing the results of the latest research, industry’s needs, and government regulatory policies. The 3rd FIRST 2019 International Conference became 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.

The 3rd FIRST 2019 International Conference attracted so many authors not only from Indonesia but also from other countries, such as Japan, Taiwan, and Malaysia. There were 180 papers were accepted in the 3rd FIRST 2019 International Conference, including 89 papers for Track 1 (Engineering and Science), 46 papers for Track 2 (Computer Science and ICT), and 45 papers for Track 3 (Social Science). In The 3rd FIRST 2019 International Conference, there were 4 keynote speakers and 2 invited speakers. As the keynote speakers, there were Prof. Yasushi Kiyoki, Ph. D from KEIO University, Japan, Prof. Nurul Taufiqu Rochman, M. Eng, Ph. D, From LIPI, Indonesia, Prof. Tjiptohadi Sawarjuwono, M. Ec., Ph. D., Ak, from Universitas Airlangga, Indonesia, and Prof. Win-Jet Luo, from National Chin-Yi University of Technology, Taiwan. As the invited speakers, there were Dr. R. Wisnu Nurcahyo, DVM from Universitas Gadjah Mada, Indonesia, and Assoc. Prof. Dr. Intan Zaurah binti Mat Darus from Universiti Teknologi, Malaysia. The 3rd FIRST 2019 International Conference committee would like to say thank you very much for all the participants and their respected institutions that have supported for the success of the 3rd FIRST 2019 International Conference, and also for all of the guess and sponsors of the 3rd FIRST 2019 International Conference.

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#### **Authors**

Affandi, Muhammad Irfan  
Marketing Efficiency of Organic Rice in Lampung Province

Afrizawati  
The Effect of Organization Climate on Performance with Job Satisfaction as an Intervening Variable

Akbar, Muhamad  
E-Government Policy, Leadership Commitment, Apparatus Resources Development, and Their Implications on Public Service Performance

Aladin  
Industrial Clusterization to Improve the Competitiveness of Small and Medium Industries in the City of Palembang

Alhadi, Esya  
Impact of Customer Orientation and Quality of Service on Trust and Customer Loyalty

Alhamdari, Lailita  
Analysis Method Economic Value Added of Cosmetics Companies Listed on Indonesia Stock Exchange

Amalia, Rizki Fitri  
Political Connection, Profitability, and Capital Intensity Against Tax Avoidance in Coal Companies on the Indonesia Stock Exchange

Amran, Ali  
Relationship Between GPA, Length of Study, and Competency with the Length of Time to Get a Job

- Amri, Darul  
Determinant of Development Strategies and Leadership Styles on Organizational Commitment and Their Implications for MSMEs Performance in Palembang
- Andriani, Titi  
Impact of Customer Orientation and Quality of Service on Trust and Customer Loyalty
- Anshari, Muhammad  
Human Resource Role and Online Strategy
- Aprianti, Siska  
The Effect of Capital Readiness and E-Commerce Utilization on the Competitiveness of Micro, Small, and Medium Enterprises Woven, Palembang
- Ardiani, Susi  
The Effect of Hospital Image and Service Quality on Customer Loyalty Through Customer Satisfaction
- Arifin, Kiagus Zainal  
Determinants of Village Financial Management Accountability
- Armaini, Rosy  
The Impact of Village Fund Program Implementation Toward Society Welfare in Indonesia
- Aryani, Yuli Antina  
Industrial Clusterization to Improve the Competitiveness of Small and Medium Industries in the City of Palembang
- Badri, Markoni  
The Environmental Compliance Management of Palm Oil Plantation in Ogan Komering Ilir Regency, Sumatera Selatan, Indonesia
- Bustan, Jusmawi  
Analysis Method Economic Value Added of Cosmetics Companies Listed on Indonesia Stock Exchange
- Bustan, Jusmawi  
The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness
- Carlos, RS  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Choiruddin  
Determinants of Village Financial Management Accountability
- Darfin, Deri  
The Public Service Quality of Library Service at the Library Unit Polytechnic State of Sriwijaya
- Darlies, Meiyi  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Darmaliana  
The Development of Teaching Material Speaking 2 Based on Communicative Approach
- Desiani, Anita  
Relationship Between GPA, Length of Study, and Competency with the Length of Time to Get a Job

- Dewata, Evada  
Industrial Clusterization to Improve the Competitiveness of Small and Medium Industries in the City of Palembang
- Divianto  
The Effect of Organization Climate on Performance with Job Satisfaction as an Intervening Variable
- Djumrianti, Desloehal  
Online Transportation Technology and Women's Driver Communication Skills
- Dwitayanti, Yevi  
The Impact of Village Fund Program Implementation Toward Society Welfare in Indonesia
- Effendi, Ridwan  
The Public Service Quality of Library Service at the Library Unit Polytechnic State of Sriwijaya
- Elisa  
Evaluation of Sales Price Within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District, Palembang
- Ermatita  
The Clustering of Paddy Fields Using Machine Learning Algorithms in the Province of South Sumatera
- Erwin, Muhamad  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Evawati, Nian Masna  
Language Experience Approach in Teaching Reading Comprehension to the Engineering Students
- Fadila, Dewi  
Impact of Learning, Socialization, and Financial Lifestyle of Students' Intention to Invest in Capital Market
- Faridah  
The Effect of Taxpayer Awareness and Tax Sanctions on Compliance in Paying Land and Building Taxes
- Firdaus, Yusnizal  
The Environmental Compliance Management of Palm Oil Plantation in Ogan Komering Ilir Regency, Sumatera Selatan, Indonesia
- Fithri, Eka Jumarni  
Determinants of the Quality Regional Financial Statement
- Frimansyah  
Determinant of Development Strategies and Leadership Styles on Organizational Commitment and Their Implications for MSMEs Performance in Palembang
- Gustiani, Sri  
The Effectiveness of Blended Learning Approach on Essay Writing Subject
- Hamid, Abd.  
The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness
- Handayani, Sri  
Marketing Efficiency of Organic Rice in Lampung Province
- Handayani, Sri  
Comparison Analysis of Added Value of Organic Rice and Inorganic Rice

- Hanifati  
Online Transportation Technology and Women's Driver Communication Skills
- Hardiyansyah, Hardiyansyah  
E-Government Policy, Leadership Commitment, Apparatus Resources Development, and Their Implications on Public Service Performance
- Hartati, Sukmini  
Dimension of Village Expenditure in Development Sector
- Hartaty, Sri  
Determinants of the Quality Regional Financial Statement
- Herawati, Yusleli  
Evaluation of Sales Price Within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District, Palembang
- Herman  
The Effect of Directed Reading—Thinking Activity on Students' Critical Thinking Abilities
- Husori, Al  
The Environmental Compliance Management of Palm Oil Plantation in Ogan Komering Ilir Regency, Sumatera Selatan, Indonesia
- Indriasari, Desi  
Determinants of Village Financial Management Accountability
- Irmeilyana  
Relationship Between GPA, Length of Study, and Competency with the Length of Time to Get a Job
- Jauhari, Hadi  
Human Resource Role and Online Strategy
- Koesharijadi, Koesharijadi  
E-Government Policy, Leadership Commitment, Apparatus Resources Development, and Their Implications on Public Service Performance
- Koryati  
Language Experience Approach in Teaching Reading Comprehension to the Engineering Students
- Kusmartini, Sri Endah  
The Development of Teaching Material Speaking 2 Based on Communicative Approach
- Lisnini  
Model of Empowerment as Strategies for Women SMEs Entrepreneurs Competitiveness in Palembang
- Lupikawaty, Marieska  
Analysis Method Economic Value Added of Cosmetics Companies Listed on Indonesia Stock Exchange
- Lupikawaty, Marieska  
Evaluation of Sales Price Within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District, Palembang
- Mahendrati, Hermina Agustina  
Individual Readiness for Change and Affective Commitment to Change: The Mediation Effect of Technology Readiness on Public Sector
- Mandiangan, Pridson  
Online Transportation Technology and Women's Driver Communication Skills

- Mangundjaya, Wustari  
Testing the Role of Charismatic Leadership, Psychological Climate, and Organizational Citizenship Behavior on Resilience
- Mangundjaya, Wustari L.  
Leader–Member Exchange and Affective Commitment to Change: Mediating Role of Change Self-Efficacy
- Mangundjaya, Wustari  
Testing the Impact of Organizational Justice on Affective Commitment to Change with Work Engagement as Mediator
- Mangundjaya, Wustari  
Individual Readiness for Change and Affective Commitment to Change: The Mediation Effect of Technology Readiness on Public Sector
- Mangundjaya, Wustari L.  
Testing Mediation of Psychological Empowerment, Work Engagement to Affective Commitment to Change
- Maretha, Fetty  
Model of Empowerment as Strategies for Women SMEs Entrepreneurs Competitiveness in Palembang
- Maria  
The Impact of Village Fund Program Implementation Toward Society Welfare in Indonesia
- Mariskha, Z  
Impact of Learning, Socialization, and Financial Lifestyle of Students' Intention to Invest in Capital Market
- Martini, Rita  
Dimension of Village Expenditure in Development Sector
- Marwa, Taufiq  
Exploring Linkage Among Experiential Value, Image of Destination, and Intention to Revisit in Nature Tourism
- Masnila, Nelly  
The Effect of Taxpayer Awareness and Tax Sanctions on Compliance in Paying Land and Building Taxes
- Maulana, Riska  
Impact of Learning, Socialization, and Financial Lifestyle of Students' Intention to Invest in Capital Market
- Miskiyah, Neneng  
Human Resource Role and Online Strategy
- Mubarok, Muhammad Husni  
The Effect of Taxpayer Awareness and Tax Sanctions on Compliance in Paying Land and Building Taxes
- Nadjmuddin, Muhammad  
The Effect of Directed Reading—Thinking Activity on Students' Critical Thinking Abilities
- Natoen, Ardiyan  
The Influence of Commitment on State Civil Apparatus in the Governor Office of South Sumatera
- Nirmagustina, Dwi Eva  
Comparison Analysis of Added Value of Organic Rice and Inorganic Rice



- Nurhasanah  
The Impact of Village Fund Program Implementation Toward Society Welfare in Indonesia
- Oktarian, Rido Prawira  
Relationship Between GPA, Length of Study, and Competency with the Length of Time to Get a Job
- Oktarida, Anggeraini  
Determinants of the Quality Regional Financial Statement
- Paisal  
The Effect of Organization Climate on Performance with Job Satisfaction as an Intervening Variable
- Pangestu, Bramntyo Muhamad  
The Effect of Capital Readiness and E-Commerce Utilization on the Competitiveness of Micro, Small, and Medium Enterprises Woven, Palembang
- Pebrianti, Yulia  
Model of Empowerment as Strategies for Women SMEs Entrepreneurs Competitiveness in Palembang
- Periansya  
The Influence of Commitment on State Civil Apparatus in the Governor Office of South Sumatera
- Purwati  
Evaluation of Sales Price Within Calculation Cost of Good Production SMEs Pempek Ilir Barat I and Bukit Kecil District, Palembang
- Puspitasari, Dwi Andriani  
Leader–Member Exchange and Affective Commitment to Change: Mediating Role of Change Self-Efficacy
- Rahma, Munaja  
Students' Perception of English Blended-Learning in State Polytechnic of Sriwijaya
- Riama, Lambok Vera  
Determinants of the Quality Regional Financial Statement
- Ridho, Sari Lestari Zainal  
Human Resource Role and Online Strategy
- Ridhwan, Moehammad  
Students' Perception of English Blended-Learning in State Polytechnic of Sriwijaya
- Rini  
Model of Empowerment as Strategies for Women SMEs Entrepreneurs Competitiveness in Palembang
- Risa  
The Development of Teaching Material Speaking 2 Based on Communicative Approach
- Risnawati  
The Development of Teaching Material Speaking 2 Based on Communicative Approach
- Robinson  
The Public Service Quality of Library Service at the Library Unit Polytechnic State of Sriwijaya

- Rusnadi, Irawan  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Sandrayati  
The Effect of Hospital Image and Service Quality on Customer Loyalty Through Customer Satisfaction
- Sanmorino, Ahmad  
The Clustering of Paddy Fields Using Machine Learning Algorithms in the Province of South Sumatera
- Sari, Evi Agustina  
The Effectiveness of Blended Learning Approach on Essay Writing Subject
- Sari, Yuliana  
Industrial Clusterization to Improve the Competitiveness of Small and Medium Industries in the City of Palembang
- Sari, Kartika Rachma  
Determinants of Village Financial Management Accountability
- Sarikadarwati  
The Effect of Hospital Image and Service Quality on Customer Loyalty Through Customer Satisfaction
- Sastrawinata, Hendra  
Impact of Learning, Socialization, and Financial Lifestyle of Students' Intention to Invest in Capital Market
- Satriawan, Indra  
The Influence of Commitment on State Civil Apparatus in the Governor Office of South Sumatera
- Seprianto, Dicky  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Setiawan, Heri  
The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness
- Setiawan, Heri  
Exploring Linkage Among Experiential Value, Image of Destination, and Intention to Revisit in Nature Tourism
- Shihab, Muchsin Sagaf  
Exploring Linkage Among Experiential Value, Image of Destination, and Intention to Revisit in Nature Tourism
- Simanjuntak, Tiur  
The Effectiveness of Blended Learning Approach on Essay Writing Subject
- Sopian, A.R  
The Influence of Commitment on State Civil Apparatus in the Governor Office of South Sumatera
- Sulaiman  
The Effect of Capital Readiness and E-Commerce Utilization on the Competitiveness of Micro, Small, and Medium Enterprises Woven, Palembang
- Sunani  
The Effect of Directed Reading—Thinking Activity on Students' Critical Thinking Abilities

- Suryati  
The Clustering of Paddy Fields Using Machine Learning Algorithms in the Province of South Sumatera
- Susilo  
Testing Mediation of Psychological Empowerment, Work Engagement to Affective Commitment to Change
- Thoyib, M.  
Determinant of Development Strategies and Leadership Styles on Organizational Commitment and Their Implications for MSMEs Performance in Palembang
- Tompunu, Alan Novi  
Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park
- Ummasyroh  
The Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness
- Wahab, Zakaria  
Exploring Linkage Among Experiential Value, Image of Destination, and Intention to Revisit in Nature Tourism
- Wahyudi, Riza  
Determinant of Development Strategies and Leadership Styles on Organizational Commitment and Their Implications for MSMEs Performance in Palembang
- Widyastuti, Endah  
Dimension of Village Expenditure in Development Sector
- Windarti, Gst Ayu Oka  
Impact of Customer Orientation and Quality of Service on Trust and Customer Loyalty
- Yahya  
The Effect of Organization Climate on Performance with Job Satisfaction as an Intervening Variable
- Yeny, Eli  
The Effect of Directed Reading—Thinking Activity on Students' Critical Thinking Abilities
- Yulina, Bainil  
The Effect of Capital Readiness and E-Commerce Utilization on the Competitiveness of Micro, Small, and Medium Enterprises Woven, Palembang
- Yulsiati, Henny  
The Effect of Hospital Image and Service Quality on Customer Loyalty Through Customer Satisfaction
- Yurnalis  
Testing the Impact of Organizational Justice on Affective Commitment to Change with Work Engagement as Mediator
- Yusri  
The Effectiveness of Blended Learning Approach on Essay Writing Subject
- Yusuf, M.  
The Environmental Compliance Management of Palm Oil Plantation in Ogan Komering Ilir Regency, Sumatera Selatan, Indonesia
- Zahara, Elvia  
Impact of Customer Orientation and Quality of Service on Trust and Customer Loyalty

Zakaria

Students' Perception of English Blended-Learning in State Polytechnic of Sriwijaya

Zamheri, Ahmad

Criminal Law Policy on the Crime of Abuse to the Orang Rimba in the Bukit Duabelas National Park

Zulkarnaini

The Public Service Quality of Library Service at the Library Unit Polytechnic State of Sriwijaya

Zulkifli

Language Experience Approach in Teaching Reading Comprehension to the Engineering Students

Zulkifli, Zulkifli

Dimension of Village Expenditure in Development Sector



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---

**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 <sup>1)</sup> , Eka Susanti <sup>2)</sup> , R.A Halimahtussa'diyah <sup>3)</sup> , Sholihin <sup>4)</sup> .....	3
Tomato Harvesting Arm Robot Manipulator; a Pilot Project.....	4
Yurni Oktarina <sup>1</sup> ,Tresna Dewi <sup>1</sup> , Pola Risma <sup>1</sup> , and Muhammad Nawawi <sup>1</sup> .....	4
Performance Evaluation Solar Charge Controller on Solar Power System Home-Based SPV Amorphous 80 Watt-Peak.....	5
Armin Sofijan <sup>1</sup> , Zainuddin Nawawi <sup>2</sup> , Bhakti Yudho Suprpto <sup>3</sup> , Riman Sipahutar <sup>4</sup> , Irwin Bizzy <sup>5</sup> .....	5
The Implementation of YateBTS Based GSM Using Raspberry PI.....	6
Sopian Soim <sup>1)</sup> , Suroso <sup>2)</sup> , Ade Silvia Handayani <sup>3)</sup> , Ahmad Taqwa <sup>4)</sup> , Nur Shadrina <sup>5)</sup> .....	6
Optimization of Own Electricity Usage with Electricity Supply from Solar Cells at Darajat Geothermal Power Plant.....	7
Brendy Chandra Supian Atmodjo <sup>1</sup> and Rinaldy Dalimi <sup>1</sup> .....	7
Ultrasonic Sensor Application as a Performance Enhancement of Robot Two Wheels.....	8
Yeni Irdayanti <sup>(1)</sup> , Rd. Kusumanto <sup>(2)</sup> , Masayu Anisah <sup>(3)</sup> , Niksen Alfarizal <sup>(4)</sup> , Zarmariesyah Erman <sup>(5)</sup> ...	8
Operation 3 Phase Induction Motor 1 KW Star Delta System Using HP (Smart Phone).....	9
Nofiansah <sup>1</sup> , M. Noer <sup>2</sup> , Nurhaida <sup>3</sup> , M. Hafidz Aulia <sup>4</sup> .....	9
PLC Omron CJ1M CPU-21 Control Modification for Drill Oil Hole Machine in an Automotive Company .....	10



**The 3<sup>rd</sup> FIRST 2019**  
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---

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 <sup>1,2</sup> , 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 <sup>1,2</sup> , Tresna Dewi <sup>1,2</sup> , RD. Kusumanto <sup>1,2</sup> , Carlos R Sitompul <sup>1,2</sup> , Rusdianasari <sup>1</sup> .....	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 <sub>2</sub> O MASS Evaporated for Banana Chips Drying Using Photovoltaic Solar Panel .....	20
Yohandri Bow <sup>1</sup> , Adi Syakdani <sup>2</sup> , Muhammad Taufik <sup>2</sup> , Rusdianasari <sup>3</sup> .....	20
Development and Feasibility Analysis of Floating Solar Panel Application in Palembang, South Sumatra.....	21
Benny Junianto <sup>1</sup> , Tresna Dewi <sup>2</sup> , Carlos Sitompul <sup>2</sup> .....	21
Effects of Grid Frequency Drop on The Dynamic Performance of Full Converter Wind Turbine Generator.....	22
A. M. Shiddiq Yunus <sup>1</sup> ,Makmur Saini <sup>2</sup> , Sri Suwasti <sup>1</sup> , dan Purwito Purwito <sup>3</sup> .....	22



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
**International Conference**

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---

Modified Design for Water Metering System.....	23
Nyayu Latifah Husni <sup>1</sup> , Dampito <sup>2</sup> , Abdurrahman <sup>3</sup> , Evelina <sup>4</sup> , ade Silvia Handayani <sup>5</sup> , Sabibal Rasyad <sup>6</sup> , Adella Rialita <sup>71-7</sup> 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 <sup>1,*</sup> , A. Syahrom <sup>2,3</sup> , Amir Putra Md Saad <sup>2</sup> , A. T. Prakoso <sup>1</sup> , D. Wicaksono <sup>1</sup> , M. I. Amarullah <sup>1</sup> , Tri Satya Ramadhoni <sup>1</sup> .....	26
Optimal Design of Plasticizing Screw Using Artificial Intelligent Approach.....	27
Fatahul Arifin <sup>1, 2(*)</sup> , Min-Wen Wang <sup>1</sup> , Jhen-Wei Kuo <sup>3</sup> , Tzong-Horng Dzw <sup>4</sup> .....	27
Mechanical Degradation Model of Porous FE Scaffold: Simulation Approach.....	28
Akbar Teguh Prakoso <sup>1</sup> , Ardiyansyah Syahrom <sup>2,3</sup> , Amir Putra Md Saad <sup>2,3</sup> , Abdul Hadi Abdul Wahab <sup>4</sup> , M. A. Sulong <sup>2,3</sup> , Achmad Rendiko Ichsan <sup>1</sup> , Apreka Diansyah <sup>1</sup> , Risky Utama Putra <sup>1</sup> , Muhammad Imam Ammarullah <sup>1</sup> , Hasan Basri <sup>1*</sup> .....	28
Scoopy Blade for Low Current River Waterwheel Supporting The Energy Needs in The Rural Areas of Indonesia.....	29
Darmawi <sup>1</sup> , Riman Sipahutar <sup>2</sup> , Irwin Bizzy <sup>3</sup> .....	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 <sup>1</sup> , Diah Kusuma Pratiwi <sup>1</sup> , Darmawi Bayin <sup>1</sup> , Irwin Bizzy <sup>1</sup> , Baiti Hidayati <sup>1,2</sup> .....	31
The Effect of Parameters on The Process of Making Objects With Rapid Prototyping Digital Light Processing Technology on The Bending Stress .....	32
Romli <sup>1</sup> , D Seprianto <sup>1</sup> , DP Putra <sup>1</sup> , M Rasid <sup>1</sup> and A. Zamheri <sup>1</sup> .....	32
The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made With Stereolithography DLP 3D Printer Technology against Impact Strength.....	33
D Seprianto <sup>1</sup> , R Sugiantoro <sup>1</sup> , Siproni <sup>1</sup> , Yahya <sup>1</sup> and M Erwin <sup>2</sup> .....	33
Simulation of the Effect of Cutting Angle in Lathe Process on Distribution of Cutting Temperature ..	34



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Ismail T <sup>1</sup> , Amrifan SM <sup>2</sup> , Irsyadi Y <sup>3</sup> , Riman S <sup>4</sup> , Rahmad H <sup>5</sup> .....	34
Conduction Heat Rate Analysis of Tool in Titanium Turning Process .....	35
Ismail T <sup>1</sup> , Amrifan S M <sup>2</sup> , Riman S <sup>3</sup> , Irsyadi Y <sup>4</sup> , Sandro O <sup>5</sup> , Fatiandari A <sup>6</sup> .....	35
Cooling Channel Design for a Built-In Spindle of a Machine Tool.....	36
Kun-Ying Li <sup>1,2</sup> , Win-Jet Luo <sup>2*</sup> , Shih-Jie Wei <sup>1</sup> , and Yan-sin Liao <sup>1</sup> .....	36
Design of Automatic Control Systems at Loader Output of Snap Gauge Machine in Manufacturing Industry .....	37
Syahril Ardi <sup>1</sup> and Rahardian Faizal Zuhdi <sup>2</sup> .....	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 <sub>2</sub> O MASS Evaporated for Banana Chips Drying Using Photovoltaic Solar Panel .....	39
Yohandri Bow <sup>1</sup> , Adi Syakdani <sup>2</sup> , Muhammad Taufik <sup>2</sup> , Rusdianasari <sup>3</sup> .....	39
Development and Feasibility Analysis of Floating Solar Panel Application in Palembang, South Sumatra.....	40
Benny Junianto <sup>1</sup> , Tresna Dewi <sup>2</sup> , Carlos Sitompul <sup>2</sup> .....	40
Effects of Grid Frequency Drop on The Dynamic Performance of Full Converter Wind Turbine Generator.....	41
A. M. Shiddiq Yunus <sup>1</sup> Makmur Saini <sup>2</sup> , Sri Suwasti <sup>1</sup> , dan Purwito Purwito <sup>3</sup> .....	41
Modified Design for Water Metering System.....	42
Nyayu Latifah Husni <sup>1</sup> , Dampito <sup>2</sup> , Abdurrahman <sup>3</sup> , Evelina <sup>4</sup> , ade Silvia Handayani <sup>5</sup> , Sabilal Rasyad <sup>6</sup> , Adella Rialita <sup>7,1-7</sup> 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 <sup>1*</sup> , A. Syahrom <sup>2,3</sup> , Amir Putra Md Saad <sup>2</sup> , A. T. Prakoso <sup>1</sup> , D. Wicaksono <sup>1</sup> , M. I. Amarullah <sup>1</sup> , Tri Satya Ramadhoni <sup>1</sup> .....	44
Mechanical Degradation Model of Porous FE Scaffold: Simulation Approach.....	46





**The 3<sup>rd</sup> FIRST 2019**  
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Scoopy Blade for Low Current River Waterwheel Supporting The Energy Needs in The Rural Areas of Indonesia.....	47
Darmawi <sup>1</sup> , Riman Sipahutar <sup>2</sup> , Irwin Bizzy <sup>3</sup> .....	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 <sup>1</sup> , Diah Kusuma Pratiwi <sup>1</sup> , Darmawi Bayin <sup>1</sup> , Irwin Bizzy <sup>1</sup> , Baiti Hidayati <sup>2</sup> .....	49
The Effect of Parameters on The Process of Making Objects With Rapid Digital Prototyping Light Processing Technology on The Bending Stress .....	50
Romli <sup>1</sup> , D Seprianto <sup>1</sup> , DP Putra <sup>1</sup> , and M Rasid <sup>1</sup> .....	50
The Effect of Rectangular Parallel Key Manufacturing Process Parameters Made With Stereolithography DLP 3D Printer Technology against Impact Strength.....	51
D Seprianto <sup>1</sup> , R Sugiantoro <sup>1</sup> , Siproni <sup>1</sup> , Yahya <sup>1</sup> and M Erwin <sup>2</sup> .....	51
Simulation of the Effect of Cutting Angle in Lathe Process on Distribution of Cutting Temperature ..	52
Ismail T <sup>1</sup> , Amrifan SM <sup>2</sup> , Irsyadi Y <sup>3</sup> , Riman S <sup>4</sup> , Rahmad H <sup>5</sup> .....	52
Conduction Heat Rate Analysis of Tool in Titanium Turning Process .....	53
Ismail T <sup>1</sup> , Amrifan S M <sup>2</sup> , Riman S <sup>3</sup> , Irsyadi Y <sup>4</sup> , Sandro O <sup>5</sup> , Fatiandari A <sup>6</sup> .....	53
Cooling Channel Design for a Built-In Spindle of a Machine Tool.....	54
Kun-Ying Li <sup>1,2</sup> , Win-Jet Luo <sup>2*</sup> , Shih-Jie Wei <sup>1</sup> , and Yan-sin Liao <sup>1</sup> .....	54
Design Control Systems of Marking Machine and Total Length Check Damper Assembly Based on Programmable Logic Controller.....	55
Syahril Ardi <sup>1</sup> and Juliantito Ardianto <sup>2</sup> .....	55
Experimental Vibration Study in Milling Thin-Walled TI6AL4V Under MQL Using Coconut Oil As Cutting Fluid.....	56
M Yanis <sup>1*</sup> , A S Mohruni <sup>1</sup> , S Sharif <sup>2</sup> , I Yani <sup>1</sup> , M Zahir <sup>1</sup> .....	56
Determination Overlap Ratio on Savonius Twisted Water Turbine Using Numeca Software.....	57
Dr. Carolus Bintoro <sup>1</sup> , Vicky Wuwung MT <sup>1</sup> , Fathurrohman Nurdin <sup>2</sup> .....	57



**The 3<sup>rd</sup> FIRST 2019**  
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---

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 <sup>1</sup> and Rinaldy Dalimi <sup>1</sup> .....	58
Study on Using Casting Simulation Software for Design and Analysis Gate and Riser in Small Foundry Industries .....	59
Irawan Malik <sup>1</sup> , A S Almadora <sup>2</sup> and M Ali <sup>3</sup> .....	59
Application of Vacuum Valve Technology as AFR Settings in 3500 Watt Operated by Methane Gas .	60
Tri Widagdo <sup>1</sup> , Ella Sundari, Eka Satria martomi <sup>1</sup> .....	60
Innovation Utilization of Nitridation Method in Improving Hardness and Corrosion Resistance of Blacksmiths Crafts .....	61
Muhammad Rasid, S.T., MT. <sup>1</sup> .....	61
Performance Analysis of a Sludge Drying .....	62
Win-Jet Luo <sup>1</sup> Nai-Feng Wu <sup>2</sup> Cheng-Yan Lin <sup>2</sup> Deri Suhaeji <sup>2</sup> .....	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 <sup>1</sup> , Z Abidin <sup>1</sup> , J Yanto <sup>2</sup> .....	64
Analysis Model for Orifice Flow Meter Correction Factor in Measuring in-Pipe Natural Gas Flow based on Numerical Simulation .....	65
Bunyamin <sup>1</sup> , Kaprawi <sup>1</sup> , Dewi Puspitasari <sup>1</sup> , Sugianto <sup>2</sup> , Nyayu Latifah Husni <sup>3</sup> .....	65
The Analysis of Biogas Fermentation Time from Cow Manure on Biodigester Fixed Dome Batch Systems .....	66
Sajaruddin <sup>1</sup> , Leila Kalsum <sup>1</sup> , Zainuddin Muchtar <sup>2</sup> .....	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 <sup>1,2</sup> , Anerasari M1, KA Ridwan <sup>1</sup> , Taufik Jauhari <sup>1</sup> .....	68
Production of Ethyl Ester with The Influence of Electrode Type, Reaction Time And Electric Voltage from Waste Cooking Oil .....	69
Rosdiana Moeksin <sup>*</sup> ), Farida Ali, Susila Arita .....	69



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
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---

Biscuit Product Development Using Moringa Oleifera Flour as an Additional Source of Nutrition .....	70
Hilwatullisan <sup>1(a)</sup> , M. Zaman <sup>1</sup> , A.Husaini <sup>1</sup> and Siti Chodijah <sup>1</sup> .....	70
The Physical Characteristics of Cracked Plastic Waste .....	71
Selpiana <sup>1</sup> , Prahady Susmanto <sup>1</sup> , Lia Cundari <sup>1</sup> , Dedek Oktari <sup>2</sup> , Omar Ibrahim <sup>2</sup> .....	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 <sup>1</sup> , Suri Andayana <sup>1</sup> and Utari Oktavia <sup>1</sup> .....	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 <sup>1</sup> , Aida Syarif <sup>1</sup> , Muhammad Yerizam <sup>2</sup> , M. Syahirman Yusi <sup>3</sup> , Leila Kalsum <sup>1</sup> , Yohandri Bow <sup>2</sup> .....	75
Characterization of Red Beetroot Soft Jelly Candy with Guava Extract and Gel Colloid Added.....	76
Meilianti* <sup>1</sup> , Marta Aznury <sup>1</sup> , Yuniar <sup>1</sup> , Sofia <sup>1</sup> , Ismy Farhan <sup>1</sup> , Lidia Agustina <sup>1</sup> .....	76
Flow Rate Effect and NAOH Concentration to CO <sub>2</sub> Reduction in Biogas Products Using Absorber .....	77
Lety Trisnaliani <sup>1</sup> , Dina Eka Pranata <sup>2</sup> , Fatria <sup>3</sup> , Tahdid <sup>4</sup> , KA Ridwan <sup>5</sup> , M. Nurizzman Alfarizi <sup>6</sup> , Mangihut Pandapotan Lumbantoruan <sup>7</sup> .....	77
Prototype of Tray Dryer Unit for Silica Gel Drying Based on Bagasse .....	78
Selastia Yuliaty <sup>1(a)</sup> , Fadarina <sup>1</sup> , Mustain Zamhari <sup>1</sup> , and Ibnu Hajar <sup>1</sup> .....	78
Modification of Starch from Yam Taro with Hydrolysis Acid as The Adhesive .....	79
Yuniar <sup>1,2</sup> , Martha Aznury <sup>1</sup> , Sofiah <sup>1</sup> , Meilianti <sup>1</sup> .....	79
The Performance of Riverse Osmosis (RO) Membrane in Producing Pure Water.....	80
Robert Junaidi <sup>1</sup> , Abu Hasan <sup>2</sup> , dan Muhammad Yerizam <sup>3</sup> , Indah Purnamasarii <sup>4</sup> .....	80
Concentrations of Dissolved Oxygen in Drinking Water .....	81
Erwana Dewi <sup>1(a)</sup> , Aisyah Suci N <sup>1</sup> and Elina M <sup>1</sup> .....	81
Growth Kinetics of <i>Saccharomyces Cerevisiae</i> and Tape Yeast on the Cassava Pulp Fermentation ....	82



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
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---

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, <sup>1</sup> Roval Al Fiqri <sup>2</sup> .....	88
Industrial Mapping in Java-Kalimantan-Nusa Tenggara Corridor .....	89
M A Berawi <sup>1</sup> , P Miraj <sup>2,3</sup> , H Sidqi <sup>2</sup> , G R Gaffara <sup>2,4</sup> and Gunawan <sup>2</sup> .....	89
Revenue Analysis of Port-City Conceptual Design .....	90
M A Berawi <sup>1</sup> , P Miraj <sup>2,3</sup> , E R Islamiah <sup>2</sup> , and Gunawan <sup>2</sup> .....	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 <sup>1</sup> , Pataras M <sup>2</sup> , and Kadarsa E <sup>3</sup> .....	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 <sup>1</sup> , Dewi R <sup>2</sup> , Permata D Y <sup>3</sup> , and Pataras M <sup>4</sup> .....	92
The Effect of Polycarboxylate Addition towards The Workability and High Strength Concrete .....	93
Sumiati <sup>1</sup> , Mahmuda <sup>2</sup> , Andi Herius <sup>3</sup> dan Agus Subrianto <sup>4</sup> .....	93



**The 3<sup>rd</sup> FIRST 2019**  
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---

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. <sup>1</sup> , Andi Herius, S.T.,M.T. <sup>2</sup> , Julian Fikri, S.S.T., M.Sc. <sup>3</sup> , M. Shaid Ramadhinata <sup>4</sup> , Maryani <sup>5</sup> .....	94
The Utilization of Crushed Clay Brick as Coarse Aggregate on Eco-Green Lightweight Foamed Concrete.....	95
Sumiati <sup>1</sup> , Mahmuda <sup>2</sup> , Sukarman <sup>3</sup> , Siswa Indra <sup>4</sup> , and Darma prabudi <sup>5</sup> .....	95
Performance analysis of Patal - Pusri Intersections after underpass operated .....	96
Arfan Hasan <sup>1</sup> , Indrayani <sup>1</sup> , Ridho Adrian <sup>1</sup> , Dwiki Syamanda <sup>1</sup> , Darma Budi <sup>1</sup> , and Akhmad Mirza <sup>1</sup> .....	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 <sup>1*</sup> , A B Mardhanie <sup>1</sup> , P Suroso <sup>1</sup> , T E Sutarto <sup>1</sup> and R Alfajri <sup>2</sup> .....	100
Falisa <sup>1*</sup> , Hendri Chandra <sup>2*</sup> , Harnani <sup>3*</sup> .....	108
<sup>1,3</sup> Teknik Geologi, Universitas Sriwijaya, Indralaya.....	108
<sup>2</sup> 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 <sup>1</sup> , Sholihin <sup>2</sup> , Adewasti <sup>3</sup> , Sarjana <sup>4</sup> .....	114
The Effect Of Addition Of High Density Poly Ethylene (Hdpe) As Binder On Hebel Light Brick (Celcon) .....	115



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
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---

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 <sup>1)</sup> , Ali Nudin <sup>2)</sup> , Jon Endri <sup>3)</sup> , Ciksadan <sup>4)</sup>	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 <sup>1</sup> , B Cania <sup>2</sup> , I K Larasati <sup>3</sup>	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 <sup>12</sup> , Lin Wei-cong <sup>1</sup> , Lin chih-yi <sup>1</sup> , Billy Brian Henriquez <sup>4</sup> , Ikhtison Mekongga <sup>3</sup> , Aaron Raymond See <sup>1*</sup>	132
Challenges of Teaching in Massive Open Online Course	133



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
**International Conference**

Jl. Srijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia  
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---

M A Ahmad <sup>1</sup> , A R C Hussin, H M Dahlan <sup>1</sup> , 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 <sup>1</sup> .....	140
Measurement of User Satisfaction Level on Implementation of SISKEUDES Application .....	141
<sup>1</sup> Mardiana and <sup>2</sup> 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 <sup>1</sup> , Yusniarti <sup>2</sup> , Ida Wahyunigrum <sup>3</sup> , Muhammad Noval <sup>4</sup> .....	145
Pull-down Fitness Technique Analysis using Motion Capture .....	146





**The 3<sup>rd</sup> FIRST 2019**  
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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
<sup>1*</sup> Heru Fahlevi, <sup>2</sup> Teuku Roli Ilhamsyah Putra and <sup>3</sup> 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 <sup>1</sup> , I Salamah <sup>1</sup> , Asriyadi <sup>1</sup> , M Fadhli <sup>1</sup> .....	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 3<sup>rd</sup> 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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 <sup>1</sup> , Irmeilyana <sup>1*</sup> and Anita Desiani <sup>1</sup> .....	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 <sup>1</sup> , Wustari L. Mangundjaya <sup>2</sup> .....	197
Aim, Concept, and Objectives of Education in Islam .....	198



**The 3<sup>rd</sup> FIRST 2019**  
**(FORUM IN RESEARCH, SCIENCE, AND TECHNOLOGY)**  
**International Conference**

Jl. Sriwijaya Negara Bukit Besar Palembang 30139 South Sumatera – Indonesia  
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---

Suroso <sup>1</sup> , Wasitoh Meirani <sup>2</sup> , Muhammad Erwin <sup>3</sup> , Ayu Puspasari <sup>4</sup> .....	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 3<sup>rd</sup> 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 <sup>1</sup> , Abd. Hamid <sup>2</sup> , Ummasyroh <sup>3</sup> & Jusmawi Bustan <sup>4</sup> .....	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 Effect of Culinary Knowledge and Culinary Experience on Local Culinary Attractiveness

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## ABSTRACT

This study aimed to explore culinary knowledge and tourist culinary experiences in its relation to the local culinary attractiveness. The sampling technique used was purposive sampling with a sample of 297 respondents. Research data were analyzed using AMOS 22.0. Based on the overall research hypothesis tested, two hypotheses are rejected, namely the relationship between culinary engagement with local culinary attractiveness, and the relationship between culinary knowledge with local culinary attractiveness. Then, the accepted hypothesis is the relationship of culinary experience with local culinary attractiveness and the relationship between local culinary attractiveness and culinary tourism attractiveness. The results of this study contribute to knowledge, especially in the field of marketing local culinary tourism attractiveness. This research develops a culinary tourism attractiveness model based on the exploration of the uniqueness and distinctiveness of traditional culinary which is very closely related to the history and culture of the local people from the perspective of tourists.

**Keywords:** *knowledge, experience, destination attraction, culinary tourism*

## 1. INTRODUCTION

Local food today has become an inseparable part of tourism attractions and support in offering an indelible tourist undergoes to tourism. The increasingly dynamic competition level in the tourism business encourages tourism destination managers globally to integrate local food into one of the attractive tourism products and can be offered to tourists visiting a destination [1]. Previous research explains that local food that presents the culture and traditional lifestyle of a community can be used as a marketing strategy to promote tourism destinations and plays a crucial function in attracting tourists and can influence tourist behavior [2]. The study of local food role in tourism activities explains that local food attraction and the tourist basic needs in a visit to a destination will be able to determine tourist satisfaction. Tourists can choose various activities that they can do when visiting a destination, but tourists often cannot keep away from consuming of local food and drink in tourism destinations although the food offered is not yet known by tourists [3]. Foods cooked from various local ingredients are served by local restaurants in culinary tourism destinations as a medium to add tourist experience value and make a response to tourists' curiosity in local food [4]. Enthusiasm for local food is driven by various matters associated with environmental, ethical, health and the willingness to support healthy living behavior [5]. Besides, local food is considered healthier, fresher, tastier and more reliable because it is mixed from natural raw materials [6]. Local food is considered more natural, original, and conventional [7]. Tourists seeking sensations of local food palate and unforgettable dining impression rapidly grow [8].

Furthermore, assessment for genuineness and uniqueness, tourists can attract novelty of local food [7].

Empirical study of tourism attributes where one of them is local food has attracted many researchers in various parts of the world. Previous studies discussed about divergence strategy of local food for tourism destinations and building brand identity and marketing [9], [10], local food served by local restaurants [11], tourism product development [3], take pleasure in gastronomy tourism by tourist [12], regional development [13]. Study of culinary tourism explains that tourists who consume local culinary in a tourism destination have various motive [14] and plays an important role for the tourist experience [7]. Local food investigations can be very interesting scientific topics to explore more deeply because studies that explore the consumption of local food by tourists in tourism destinations are still scarce [15].

## 2. LITERATURE REVIEW AND HYPOTHESES

### 2.1. Culinary Knowledge

Collaboration among learning and tourist knowledge in excursion activities has been reviewed by various researchers. Tourists who visit gastronomic tourism destinations tend to integrate food and drink with local culinary experiences that encourage their willingness to learn how to cook [16]. Enjoying local food and beverage dishes is not only because of necessity but this activity plays an important role to gain knowledge of the cuisine,

drinks, and the local community culture. The ability and high employee knowledge of local culinary in culinary tourism destinations is another attribute that has an imperative role in marketing culinary tourism [17]. Tourists can visit the culinary destination of tourism and learn the uniqueness of the local community wisdom [18]. Provision of local food is one of the strategies carried out by tourism destination managers to attract tourists visiting tourism destinations. Culinary tourism is offered as an option for tourists to enjoy something different and cannot be found in other tourism destinations. Local food can be used as a differentiator in a tourism marketing venture and has an important component in the sustainable tourism development process [19].

## **2.2. Culinary Experience**

Local food has a decisive tourist attraction and is a consideration for tourist experiences, both tourists who are interested in traditional food and for tourists to be more relaxed in enjoying food [20]. Food cannot be separated from tourist activities and a necessity for individuals. However, attitudes and motivations to eat up and seek food experiences differ for each tourist. Some tourists have special concern in culinary experiences, which experiences of culinary are intended to utilize as driver to choices of destination [14]. Tourists can take a trip to culinary destinations to feel the local culinary practice. Culinary tourism can be conceived as an area of cultural tourism, where tourists can observe, participate, and understand people and other places through food and dining experiences [10], [21]. Other tourists consider experience to consume culinary is a crucial thing, however, do not determine the destination preference if evaluated derive from the commitment continuity to local cuisine. Local food provision in destinations of tourism tend to serve tourist's needs who visit and provide tourists who have the willingness to obtain profound lore of local cuisine and culture [11].

## **2.3. Tourism Attraction**

Tourism destination managers must develop various supporting features to persuade tourists to visit and take pleasure in local food [22]. Tourism destination manager can perform various resources advantages of culinary tourism destination managed and differ from other destinations. Managers must provide various supporting facilities in culinary tourism destinations so that tourists can enjoy local food. Local cuisine has developed as the most notable attractiveness in destinations of culinary tourism [23]. Local food served with uniqueness and naturalness so that it can attract tourists to be keen on it. Local food uniqueness is related to the unique characteristics possessed by the people that exist in a destination and usually a non-

separate part of the local culture. Tourists push to visit a destination of tourism by increased attractive local food and behalf of the strategies to increase tourism attractiveness [24]. Culinary tourism can offer local food taste sensation and provide a unique experience for tourists to enjoy local food [8].

## **2.4. Culinary knowledge and culinary attractiveness**

Local food becomes a part of the superior model of a tourism destination [25]. Strategy that can be developed to create a tourism destination brand identity by improving the quality of local food [9]. Tourist knowledge about local culinary can be a driving force to participate in culinary tourism activities and provide unforgettable travel experiences in tourism destinations [26]. High level of tourist knowledge about local culinary in culinary tourism destinations will encourage tourists to be more satisfied with culinary-related experiences and will see local culinary as something more interesting [27]. Also, local culinary knowledge is believed as an influencing factor on tourist perceptions about culinary attractiveness [28]. Tourist knowledge about gastronomy has a significant and positive relationship related to the gastronomy attractiveness [12]. Therefore, it could be hypothesized as follows.

H1: Tourist culinary knowledge influenced the perception of culinary attractiveness.

## **2.5. Culinary experience and culinary attractiveness**

Tourist experiences related to certain tourism activities will sustainably support personal perceptions of an activity [29]. The tight level of tourist involvement with the local culinary will provide a more tourist experience with the culinary tourism. The tourist experience in enjoying local cuisine will increase tourist knowledge of the culinary consumed, then tourists have their culinary attractiveness assessment [30]. Local food and culture owned by the people in tourism destinations can attract tourists to experience unforgettable experiences and enjoy the local culture authenticity [31]. Research by [12] also states that the tourist experience enjoying gastronomic tourism is significantly and positively related to gastronomy attractiveness. Tourists who have good culinary experience will encourage them to give a higher score on culinary attractiveness. Therefore, it could be hypothesized as follows.

H2: Tourist culinary experience influenced the culinary attractiveness perception.

### 3. METHODS

#### 3.1. Measurement Instrument

The survey instrument was designed based on a scale developed in previous research to measure the construct of the conceptualized model. Culinary knowledge measuring using 5 indicators adjusted from the study of [29], [12]. Culinary experience measuring using 4 indicators adapted from the study of [29], [12]. Culinary attractiveness is measured by 5 indicators adjusted from [12].

#### 3.2. Population and Samples

Instrument of research was developed according to the review of literature to collect empirical data for this research. The distribution of questionnaires was carried out for 3 weeks in June 2019 using purposive sampling. Respondents are domestic tourists who have visited culinary destinations in Palembang with a total of 297 people. Culinary tourism destinations in Palembang used in this research, such as in Jalan Jenderal Sudirman, Jalan Merdeka, Musi River, Pasar Kuto and Kampung Kapitan, which offer traditional food served with music and local cultural attractions.

#### 3.3. Analysis of Data

Analysis of factor was employed to determine factor structures inherent with the research indicators formation. SPSS 23 and AMOS 22 software are used to analyze data. The first step was testing the measurement model and structural model. Confirmation factor analysis is performed to determine the measurement model, determine manifest variables that reflect the hypothesized latent variables. Then, the analysis of structural equation is used to find out the validity of construct, index of goodness, structural and measurement models and hypothesis testing.

### 4. RESULTS

#### 4.1. Instrument Validity and Reliability

Cronbach  $\alpha$  value was used as a guideline for measuring consistency and reliability for each variable. Alpha Cronbach's value for culinary knowledge construct, culinary experience, and culinary attractiveness showed significant internal consistency 0.791, 0.810 and 0.767. Composite reliability (CR) score for culinary knowledge construct, culinary experience, and culinary attractiveness was 0.888 to 0.891. The results of data analysis explained that the research instrument designed had a feasible of reliability because it was more aloft than a minimum score requirement [32].

Analysis of factor confirmatory used to determine standard of measurement model including testing validity of convergent and discriminant. The validity of convergent from measurement model proceeds was corroborated by reliability and extraction of average variance [32]. The reliability of item indicated the divergence of item underlying construct and t-value described the value of a significant standard loading ( $p < 0.01$ ) explaining that the item was reliable. Requirements for construct reliability value must be similar or above 0.7 and extraction of average variance, wherein the number of the variants size of construct have to over 0.5 [32].

The reliability of all research constructs was higher than the minimum score required and the average variance extraction of culinary knowledge, culinary experience, and culinary attraction was above 0.5. Measurement of item result indicated has an elevated of validity level and reliability. Then, the discriminant validity test was carried out to find out discrimination between constructs. The AVE method was used to determine the validity of discriminant between constructs which was indicated AVE from constructs higher than the correlation among constructs [33]. Table 3 described the significance of correlations between factors that have good reliability of discriminant.

**Table 1** Result of reliability test

Measures construct	Cronbach $\alpha$	Composite Reliability (CR)
Culinary knowledge	0.791	0.886
Culinary experience	0.810	0.857
Culinary attractiveness	0.767	0.980

**Table 2** Result of convergent validity test

Construct	Standardized Regression	Error of estimate	C.R	AVE
Culinary Knowledge	0.648	0.084	10.231	0.610
	0.465	0.066	8.348	
	0.817	-	-	
	0.730	0.067	13.055	
Culinary Experience	0.718	0.080	12.885	0.601
	0.652	0.060	10.982	
	0.541	0.075	9.121	
	0.843	0.083	13.775	
Culinary Attractiveness	0.762	-	-	0.603
	0.724	-	-	
	0.688	0.095	10.607	
	0.502	0.115	7.962	
	0.712	0.100	9.420	
	0.733	0.102	11.076	

#### 4.2. Structural model and hypotheses test

Relationships test among constructs of conceptual model use method of estimation of maximum likelihood. Path coefficient value resulting from testing the structural model presented in table 4. The analysis showed that all structural path estimates were significant ( $p = 0.177$ ), including the chi-square statistic ( $\chi^2 = 29.92$ ,  $df = 45$ ), ( $\chi^2/df = 0.664$ )



less than three [34]. Then, other indexes related to the model suitability test were: RMSEA = 0.025; CFI = 0.995; AGFI = 0.943; GFI = 0.974; also supported feasibility of a structural model that showed that the structural path was consistent with the hypothesized relationship between latent constructs.

The critical ratio (CR) value can be used as a guideline for evaluating the significance of research hypotheses [34]. When the critical ratio (CR) was in the range -1.96 to 1.96, the hypothesis would be rejected. Based on table 5, culinary knowledge and culinary attractiveness had a significant and positive relationship ( $\beta = 0.455$ , CR = 4,292) with p-value = 0,000 <0.05 so that it supported Hypothesis 1. These findings explained that culinary knowledge was a significant predictor of culinary attractiveness. The results of structural analysis explained that culinary knowledge had a significant and positive influence on culinary attractiveness. This study supported the research of [12], [28], [35] who explained that the knowledge possessed by tourists about local culinary has a significant and positive influence on culinary attractiveness.

**Table 3** Result of discriminant validity test

AVE/R <sup>2</sup>	Culinary Knowledge	Culinary Experience	Culinary Attractiveness
Culinary Knowledge	.610		
Culinary Experience	.492	.601	
Culinary Attractiveness	.549	.532	.603

**Table 4** Result of Structural Equation Model

Hypothesis testing	Path estimate	Critical Ratio	Sig.	Evidence
Culinary attractiveness ← culinary knowledge	.455	4.292	.000	Supported
Culinary attractiveness ← culinary experience	.239	2.247	.025	Supported

Culinary experience and culinary attractiveness had a significant and positive relationship with culinary attractiveness ( $\beta = 0.239$ , CR = 2,247) with p-value = 0.025 <0.05 so that it supported hypothesis 2. These findings explained that culinary experience was also a significant predictor of culinary attractiveness. The results of structural analysis explained that culinary experience had a significant and positive influence on culinary attractiveness. This study supported the research of [12], [28], [36], [35] which explained that the tourist experience while enjoying local cuisine has a significant and positive influence on culinary attractiveness. The cooking skills performed by local restaurant managers in culinary tourism destinations can affect tourist experiences [28].

Based on the analysis result, it could be seen that the culinary knowledge possessed by tourists was significantly

and positively related to culinary attractiveness. The better knowledge about local culinary owned by tourists would make tourists more interested in visiting culinary tourism destinations and enjoying local cuisine. Then, the tourist experience in enjoying local cuisine was significantly and positively related to culinary attractiveness. In-depth tourist experience in enjoying local food while tourists were in tourism destinations would make them more interested in visiting tourism destinations.

## 5. CONCLUSION

The study provided good appreciate of tourist experiences related to culinary tourism. It was important for culinary tourism managers to provide services to tourists so that it would provide a better experience. Therefore, to improve the tourist experience the culinary tourism managers must have focused more on service factors such as setting a better culinary tourism environment, improving employee performance in providing services and interaction quality with tourists. Culinary tourism managers could increase visual attractiveness by changing the layout and physical environment in tourism destinations so that it would increase beauty and comfort. The interaction quality between tourists and employees could also be improved so that it could increase the perception of the tourist experience values.

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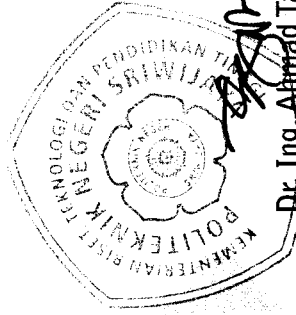
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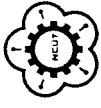
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