

# 2<sup>nd</sup> International Seminar of Science and Applied Technology

*Challenges in Research and Innovation  
in New Normal Era*

October, 12 2021

# LET'S JOIN US



Time	Activities
8.00	Opening Zoom
8.30	Opening Event
8.35-8.40	Chairman's report
8.40-8.50	Director's welcome
8.50	Panel Session Opening
09.00-09.30	Professor. Christopher Gan's presentation
09.35-10.05	Professor. Sumeru's presentation
10.10-10.40	Alexander Vyboishchik, Ph.D's presentation
10. 40-11.30	Question and Answer Session
11.30-11.35	Panel Session Closing
11.35-11.40	Preparation for Parallel Session
11.40-12.30	Break
12.30-15.00	Parallel Session I
15.15-16.30	Parallel Session II
16.30-16.45	Break (Back to Panel Session)
16.45-17.00	Best Presenter Announcements and Proceeding Information
17:00	Closing by Head of Research Center and Community Services (P3M)

Western Indonesian Time: UTC+7:00



# Panel Session





# Parallel Session 1

(12.30 - 15.00)

## ROOM 1

No	Article ID	Article Title
1	1570739154	Flexural Strengthening of Reinforced Concrete Beam with CFRP
2	1570739774	The Effect of Adding Bledug Kuwu Mud and Vermiculite on CBR Values of Expansive Soils
3	1570743528	The Character of Infiltrated Water in Modeling Through a Combination Layer of Porous Concrete and Clay Soil
4	1570743651	Biopolymer as Environmentally Friendly Reinforcement to Overcome Cracked Soil Problems on Expansive Soil (Case Study: Jalan Karanggede - Juwangi)
5	1570744313	Analysis of Soft Soil Shear Strength on Slopes Stabilized Using Volcanic Ash and Phosphoric Acid

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 2

No	Article ID	Article Title
1	1570739057	Streamflow Estimation Using Regionalized Hydrometeorological Assessment on Associated Ungauged Small Watershed
2	1570750060	Study of Controll Well to Prevent Landslides Risk During Construction of Cisumdawu Toll Road
3	1570751024	Material Protection on Citarum River-Bed by Local Scour Used What-If Analysis
4	1570751562	Efforts to Repair Groundsill Bantar River Progo Special Region of Yogyakarta Indonesia

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1

(12.30 - 15.00)

## ROOM 3

No	Article ID	Article Title
1	1570724950	Analysis Rating Condition and Remaining Useful Life of Idano Mezawa Bridge, Nias North Sumatra
2	1570742931	Performance Analysis of Shear Key in Autoclaved Aerated Concrete (AAC) Slab
3	1570744295	Evaluation of Experimental of the Dynamic Wharf Structure
4	1570744609	Flexural Strength Improvement Aerated Autoclaved Concrete (AAC) Slabs with Toppings for Pedestrian Bridge
5	1570744714	The Effect of Topping on Hollow Core Slab Floor on the Vibration Serviceability Due to Human Activities

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 4

No	Article ID	Article Title
1	1570737249	Flexible Reinforcement and Shearing of Composite Beams of Laminated Campers-Concrete
2	1570738891	Loss of Friction Force Due to High Temperature on A325 Bolts with Proof Load Tension on Steel Bridge Girder Post Fire
3	1570739516	Response of Cable Stayed Bridge Under 11 Accelerogram Ground Motion (Case Study of Sei Dareh Cable Stayed Bridge)
4	1570744654	Behavior of Performance Low Strength Reinforced Concrete Column Strengthened with Carbon Fiber Reinforced Polymer Subjected to Cyclic Lateral Load
5	1570738866	Flexural Reinforcement of Laminated Camphor Wood-Concrete Composite Bridge Structure Elements Using Plain Reinforcement Steel Both Ends at Anchor

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 5

No	Article ID	Article Title
1	1570740599	The Effect of Adding Lime and Phosphoric Acid for Soft Soil Improvement on Unconfined Compressive Strength Value
2	1570744751	Soil Stabilization with Bledug Kuwu Mud and Phosphoric Acid Viewed from Plasticity Index Value
3	1570744765	Stabilization of Gedebage Expansive Soil on Shear Strength Using Vermiculite and Emulsified Asphalt
4	1570750762	Improvement of Soft Soil for Subgrade Stabilized with Asphalt Emulsion and Tailing
5	1570739463	Behavior of Low Strength Concrete Beams Reinforced with Carbon Fibre Reinforced Polymer Under Cyclic Loading

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 6

No	Article ID	Article Title
1	1570729534	Experimental Evaluation of Indexing Between HBase and MongoDB
2	1570744623	Position Coordination Aid for Blind Persons Based on LoRa Point to Point
3	1570744767	Bandwidth Enhancement of the Rectangular Patch Antenna Using Artificial Dielectric and Proximity Coupled Line Feed
4	1570744770	Comparison of the Performance of Two Circular Patch Antennas Made from Taconic RF- 60A Substrate with and Without Artificial Dielectric Using an Experimental Approach
5	1570750851	Health Card for Teenager Based on near Field Communication and IoT Using Sensor Fusion Method
6	1570744784	Literature Review of E-learning Since 2015 - 2020

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.





# Parallel Session 1

(12.30 - 15.00)

## ROOM 7

No	Article ID	Article Title
1	1570739633	Analysis and Design of Chili Snail Pest Controlling System Using IoT in Garut Indonesia
2	1570739638	Implementation of Naive Bayes Algorithm on Sentiment Level Analysis
3	1570736177	Simulating the Efficient Movement of Four Segments Robot Arm by Fractal Model
4	1570738970	Applying Hand Gesture Recognition for User Guide Application Using MediaPipe
5	1570739455	Flood Detection System Using Ultrasonic Sensor with Fuzzy Logic Method
6	1570740682	Artistic Characters Generated by Fractal Model Based on the Composition of Components in Grid

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1

(12.30 - 15.00)

## ROOM 8

No	Article ID	Article Title
1	1570735799	The Effectiveness and Efficiency of Software Development Tools
2	1570749053	Design and Realization of Parking System Prototype Using RFID Based Microcontroller with Reservation Service via Website for Four-Wheel Vehicle
3	1570750624	PLC Based Remote Accessible Refrigeration Training Unit
4	1570751599	Framework for Measuring Readiness of Satu Data Indonesia (SDI) Implementation
5	1570744768	The Characteristic of a 3.5 GHz Circular Patch Antenna Using Open-Ring Artificial Dielectric
6	1570744543	Model for Predicting Electrical Energy Consumption Using ARIMA Method

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 9

No	Article ID	Article Title
1	1570738945	The Influence of Initial pH on Total Dissolved Solid, Total Organic Compound, and Ni Metal Ion Removing from Citarum River Water Using Al and Fe as Electrode in Electrocoagulation
2	1570744736	Glucose Product from Starch Hydrolysis with Fruit Extract Using Microwave Assisted Acid Hydrolysis (MAAH)
3	1570744766	Comparison Between Squencing Batch Reactors (SBR) and Continuously Stirred Tank Reactors (CSTR) in Handling Hydraulic Shock Loads
4	1570744716	Treatment of Canteen Wastewater by Activated Sludge Added Bioballs
5	1570744781	Preparation and Characterisation of NiYSZ-Based Anode for Solid Oxide Fuel Cells and Solid Oxide Electrolyzer Cells

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1

(12.30 - 14.30)

## ROOM 10

No	Article ID	Article Title
1	1570739376	The Effect of Base Catalyst Type and Temperature of Peanut Shell Hydrolysis to Oxalic Acid
2	1570732304	The Influence of Polymer Concentration on Membrane Performance During Textile Wastewater Treatment
3	1570742523	The Influence of Applied Current Density and Agitation Speed During Electrocoagulation of Textile Wastewater
4	1570733576	The Effect of Sodium Chloride with Varying Concentration on Characteristic and Rheology of Extracted Gluten from Wheat Flour
5	1570739450	The Development of Coffee Bean Drying Process Technology - A Review

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1

(12.30 - 15.00)

## ROOM 11

No	Article ID	Article Title
1	1570739382	Analysis of Maximum Power Point Tracking (MPPT) Performance in DC/AC Inverter of On-Grid Solar Power Plant
2	1570739749	Learning from the Scratch for Tuberculosis (TB) Bacilli Detection Using DSOD
3	1570744734	Development of Falling Notification System for Elderly Using MPU6050 Sensor and Short Message Service
4	1570739383	Implementation of LoRa as a Media for Monitoring Data Sending and IoT in STMIK AMIK BANDUNG Area
5	1570744724	Play & Fun Portal to Support "Steam" Learning Method in Early Childhood
6	1570739132	Chatbot for Information Service of New Student Admission Using Multinomial Naïve Bayes Classification and TF-IDF Weighting

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1 (12.30 - 15.00) ROOM 12

No	Article ID	Article Title
1	1570744675	The Relationship Between Measurable Temperature by Infrared Thermometer with the Distance to Heat Source
2	1570739661	Application of the Geographically Weighted Regression (GWR) with the Bi-Square Weighting Function on the Poverty Model in the City/Regency of West Java
3	1570736635	Comparison of Newton Correction Between Joule's Law Experiment and Ice Heat of Fusion Experiment
4	1570739138	Experiments for Determining the Thermal Conductivity of Brass and 304 Stainless Steel with Direct Temperature Measurement Techniques Using Lorenz Number as Validation
5	1570742192	Temperature Dependence on Distance from Heat Source Objects

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



12  
Oct  
2021

# Parallel Session 1 (12.30 - 15.00) ROOM 13

No	Article ID	Article Title
1	1570744459	Identification of Infrastructure, Accessibility, Environment, and Physical Tourism Attraction Resources: Cibeureum Lake Case
2	1570724272	Comparison of Accuracy and Predictive Results of ES-Holt Method and ANN-Back Propagation Method: Case Study of Number of Tourists
3	1570732326	Tourist Motivation and Satisfaction to Hot Springs Destination
4	1570738743	A New Strategy for Sustainable Tourism Development: Case Study on Patengan Village
5	1570741666	Factor Analysis of Hot Springs Tourist Motivation
6	1570744867	The Role of Technology and Innovation in Creative Tourism: The Digital Native Perspective

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 1

(12.30 - 15.00)

## ROOM 14

No	Article ID	Article Title
1	1570744405	Design and Development of a Vortex Turbine for the Hilly Regions of Bangladesh
2	1570739173	A Computational Model for Performance Optimization of a Stepped Solar Still
3	1570741338	Experimental Investigation of Quantity and Quality of Condensate from Split-Type Air Conditioner as a Potable Water
4	1570744931	Using Feasibility Index Model to Investigate Human Thermal Comfort Under Weather Data of Mubi, Adamawa State, Nigeria
5	1570749727	Investigation on the Interaction of Lignocellulose and Starch-Based Wastes in Wet Torrefaction Process
6	1570751487	Modification of AC Single Phase Induction Motor to Low-Speed AC Single Phase Permanent Magnet Generator

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.





# Parallel Session 2

(15.15 - 16.30)

## ROOM 15

No	Article ID	Article Title
1	1570735310	Integrating Ethernet over PDH Based Microwave Radio Links Using ECMP Load Balancing Method for Rural Internet Access
2	1570751215	Image Processing Implementation on FPGA
3	1570736070	Development of Measuring Instrument to Measure and Visualize Antenna Radiation Patterns as a Teaching Aids for Antenna and Propagation Engineering Practices in Laboratory
4	1570744276	Effect of Distributed Generation Base on Synchronous Generator on Fuse Recloser Protection Coordination in Medium Voltage Network
5	1570748243	Development of an Automation System for Nutrient Film Technique Hydroponic Environment

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



12  
Oct  
2021

# Parallel Session 2 (15.15 - 16.30) ROOM 16

No	Article ID	Article Title
1	1570738929	Development of Spectral Sensors for Nitrite Content in Edible Bird's Nest
2	1570742554	Determination of the Fastest Path on Logistics Distribution Using Dijkstra Algorithm
3	1570738786	Investigation of the Utilization of Kaplan Turbines for PLTMH Power Plants
4	1570738655	Forecasting the Number New Cases of COVID-19 in Indonesia Using the ARIMA and SARIMA Prediction Models
5	1570739236	Cervical Cancer Image Classification Using CNN Learning Transfer

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 2 (15.15 - 16.30) ROOM 17

No	Article ID	Article Title
1	1570739681	Design of an Absorber Plate for Solar Air Dryer Using Nickle Oxide Nano Particle Coating
2	1570744752	Design and Development of a Small-Capacity Tesla Turbine for Rural Applications
3	1570744771	Design, Development and Fabrication of a Solar Dryer for the Rural Areas of Bangladesh
4	1570750763	Numerical Study of the Cone Angle Effect on Conical Basin Gravitational Water Vortex Turbine
5	1570751101	Conversion of Crude Hevea Brasiliensis Oil to Biodiesel Utilizing Perna Viridis Waste Shells as Solid Catalysts
6	1570744786	Implementation of Adaptive Neuro Fuzzy Inference System Control on Pneumatic Solar Tracker

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 2 (15.15 - 16.30) ROOM 18

No	Article ID	Article Title
1	1570744773	The Effect of Consumer Interest on Islamic Bank Marketplace: An Analysis Using Google Trends
2	1570743531	Loyalty Towards Islamic Microfinance: The Role of Perception, Expectation, and Trust
3	1570739437	How Liquidity, Bank Efficiency and the NPF Ratio Impact on Islamic Commercial Banking Performance During Covid -19 Pandemic?
4	1570731039	Analysis of Sustainable Finance Disclosure at the Indonesian Public Sharia Bank Using POJK 51/POJK.03/2017 Determinants and Influence on the Profitability
5	1570725558	Millennials' Intentions Toward Sharia Card: The Roles of Theory of Planned Behaviour and Product Knowledge
6	1570739022	Predicting Generation Z Behavioral Intention Toward Organic Food Consumptions

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



# Parallel Session 2 (15.15 - 16.30) ROOM 19

No	Article ID	Article Title
1	1570739163	Understanding the Effect of E-Commerce Security Towards Loyalty
2	1570744756	Understanding Offline Shopping Intentions During Pandemic: An Application of the Theory of Planned Behaviour
3	1570750625	Online Food Delivery Service: The Link Between Food Quality, e-Service Quality, Trust, and Loyalty
4	1570739534	The Effect of Perceived Ease of Use, Perceived Usefulness and Risk on User Interest in Using Financial Technology Peer to Peer Lending
5	1570744284	Behavioral Intention of Millennial Consumer Toward Green Fast-Food Retail
6	1570738743	A New Strategy for Sustainable Tourism Development: Case Study on Patengan Village

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



12  
Oct  
2021

# Parallel Session 2 (15.15 - 16.30) ROOM 20

No	Article ID	Article Title
1	1570738365	The Influence of Social Media Marketing Activities on Indonesian Local Apparel Brand Purchase Intentions
2	1570747333	Esports: An Empirical Studies of Factors Affecting Continuance Intention
3	1570735854	The Determinants Factors of Regional Financial Independence
4	1570744507	The Influence of Perceived Risk, Trust and Intention to Use in Adoption of Fintech Service
5	1570744664	The Effect of Employee Competence, Leadership Commitment, and the Role of Internal Audit on the Asset Accounting Information Quality

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.



12  
Oct  
2021

# Parallel Session 2 (15.15 - 16.30) ROOM 21

No	Article ID	Article Title
1	1570744764	Antecedents and Consequences of Organizational Innovation: Study on Small and Medium Enterprises in the Consumer Goods Industry
2	1570738852	The Relations of Job Type, Smartphone Usage, Religion, and Financial Institution Product Awareness
3	1570740665	Exploring Social Entrepreneurship in the Community Affected by the Jatigede Reservoir Infrastructure Development Project
4	1570736723	Understanding Value and Attitude of Generation Z on Indonesian Local Cuisine
5	1570739343	The Effect of Financial Literation and Financial Technology on Profit (Survey on MSME Bandung City)
6	1570751017	Marketing Network System Analysis of MSME's "Relief" Crafts

- Please to attend the opening and panel session (8.30am – 12am Indonesian Time)
- Please use virtual background, write your full name in panel and parallel session.
- Make sure you are in good internet connection and not in crowded place.

# 2<sup>nd</sup> International Seminar of Science and Applied Technology

*Challenges in Research and Innovation  
in New Normal Era*

October, 12 2021

- ✓ **The certificate** can be downloaded in your ISSAT account.
- ✓ **Proceeding link** from Atlantis Press will be displayed on ISSAT Website.

