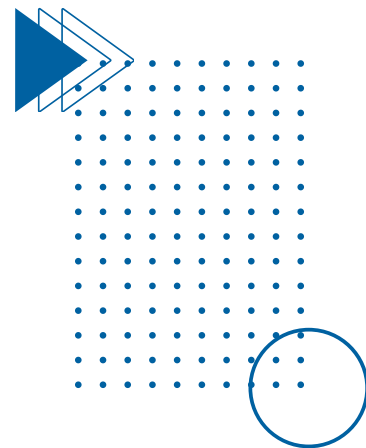
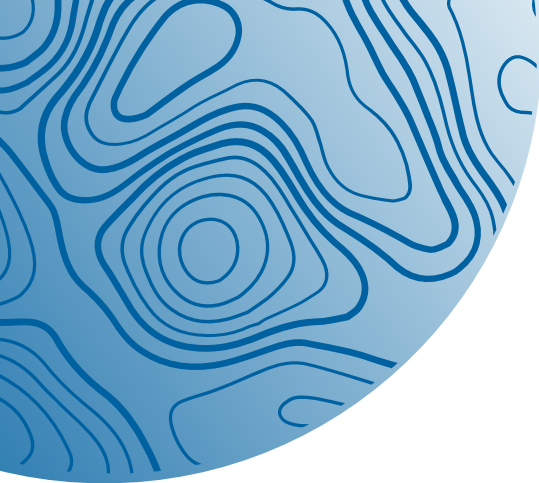




BOOK OF PROGRAM

THE 3RD INTERNATIONAL CONFERENCE ON APPLIED STATISTICS 2023

ORGANISED BY
DEPARTMENT OF STATISTICS
FMIPA UNIVERSITAS PADJADJARAN





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PREFACE

Assalamualaikum Warahmatullah Wabarokatuh.

Dear participants,

Welcome to the 3rd International Conference on Applied Statistics (ICAS III) 2023.

Department of Statistics, FMIPA, Universitas Padjadjaran proudly presents the International Conference on Applied Statistics this year. The theme of this conference is Statistical Modelling in Rapid Technological Changes. This conference provides a good opportunity to learn about recent developments in statistics and also it is a means of communication between researchers, lecturers, and students in applied statistics and for sharing their research and knowledge.

The conference organiser invites speakers from four different countries: The United Kingdom, Italy, Australia, and Indonesia. We greatly appreciate the contribution of our invited speakers: Professor Jeremy Oakley from The University of Sheffield (United Kingdom), Professor Emanuele Borgonovo from Bocconi University (Italy), Dr. Arief Gusnanto from the University of Leeds (United Kingdom), Professor Eric J. Beh from Wollongong University (Australia), and Professor Yuyun Hidayat from Universitas Padjadjaran (Indonesia).

The scope of this conference consists of four topics: Statistics, Mathematics, Actuarial Science, and Data Science. The scope provides a wider area of applied statistics which enables researchers to share a wide range of their works. We encourage papers submitted to ICAS III to be published in international Scopus-indexed journals through the paper-assisting program by our reviewer team.

We hope you enjoy this conference and contribute to every session.

Thank you for your participation in ICAS III!

Wassalamualaikum Warahmatullahi Wabarokatuh.

Best wishes,

Budhi Handoko, M.Si, Ph.D
General Chairman of ICAS III



PROGRAM

DAY 1

ZOOM MEETING : <https://bit.ly/3rdICAS2023>

No	Place	Time	Agenda	Description
1	Main Room	08.00 - 08.35	Preparation	Participants enter the Zoom Meeting
2		08.35 - 09.10	Opening	Opening by Master of Ceremony
				The Holy Qur'an Recitation
				Indonesia Raya Anthem
				Statistics Hymn Song
				Speech by Chairman of ICAS III
				Speech by Head of Department
3		09.10 - 11.30	Plenary Sessions	Speech by Dean of Faculty of Mathematics and Natural Science (Official ICAS III opening)
				Speaker 1 : Prof. Eric J. Beh
				Q&A Session (Moderator : Dr. Irlandia Ginanjar, M.Si)
	Speaker 2 : Prof. Yuyun Hidayat			
4		11.30 - 12.30		BREAK
5	Breakout Room	12.30 - 15.00	Parallel Sessions	Parallel Sessions
6		15.00 - 15.30		BREAK
7	Main Room	15.30 - 16.40	Plenary session	Speaker 3 : Prof. Jeremy Oakley
				Q&A Session (Moderator : Budhi Handoko, M.Si, Ph.D)
8		16.40 - 16.50	Closing	MC Closing and Documentation



PROGRAM

DAY 2

ZOOM MEETING : <https://bit.ly/3rdICAS2023>

No	Place	Time	Agenda	Description
1	Main Room	08.30 - 09.00	Preparation	Participants Enter the Zoom Meeting
2		09.00 - 09.05	Opening	Opening by Master of Ceremony
3	Breakout Room	09.05 - 12.05	Parallel Sessions	Parallel Sessions
4		12.05 - 12.50	BREAK	
5	Main Room	12.50 - 15.25	Plenary Sessions	Speaker 4 : Dr. Arief Gusnanto
6				Q&A Session (Moderator : Resa Septiani Pontoh, S.Si., M.A.B., M.Stat.Sci.)
7				Speaker 5 : Prof. Emanuele Borgonovo
8				Q&A Session (Moderator: Dr. Yusep Suparman, M.Sc)
9		15.25 - 15.35	Closing	Closing Statement by the General Chairman of ICAS III
10				Documentation
11				Closing by Master of Ceremony



PARALLEL SESSIONS DAY 1

Theme: Time Series

Moderator : Dr. Gumgum Darmawan, M.Si.

No	Time	Paper Title	Authors
1	12.40 - 12.56	Analysis Relationship Between Geothermal Energy Usage And Annual CO2 Savings In Iceland : Vecm Approach For Forecasting	Juzma Fawwaza Rosadi, Ratna Melati Hadiputri, Tiffany Yauwira
2	12.56 - 13.12	Comparison of LSTM and GRU Methods In Forecasting Rainfall in Bogor Regency	Syahrul Ghani Abdul Rasyad, Gumgum Darmawan, Defi Yusti Faidah, Chrysentia Clarissa Clorinda
3	13.12 - 13.28	Implementation of the Bidirectional Gated Recurrent Unit Algorithm on Consumer Price Index Data in Indonesia	Nughthoh Arfawi Kurdhi, Andjani Ayu Cahaya Tanjung, and Dewi Retno Sari Saputro
4	13.28 - 13.44	Modeling time series data based on Hijri Calendar by machine learning	Gumgum Darmawan, Budhi Handoko, Defi Yusti Faidah
5	13.44 - 14.00	Stock Price Forecasting of PT. Telkom Indonesia Using Fuzzy Time Series Markov Chain Method	Ananda Dewi Suhardana, Yuyun Hidayat, Resa Septiani Pontoh

Theme: Medical Segmentation

Moderator : Dr. Anindya Apriliyanti Pravitasari, M.Si.

No	Time	Paper Title	Authors
1	12.40 - 12.56	Analyzing Optimizers for the UNet-VGG16 with Transfer Learning in 3D Reconstruction of Lung Segmentation Model	Anindya Apriliyanti Pravitasari, Mohammad Hamid Asnawi, Triyani Hendrawati, Gumgum Darmawan, and Fajar Indrayatna
2	12.56 - 13.12	Deep Learning Approach for Three-Dimensional Liver Image Segmentation using 3D UNet and Its Variant with Transformer	Farhat Gumelar, Anindya Apriliyanti Pravitasari, Yusep Suparman, Mohammad Hamid Asnawi, Chipta Dwi Ramadian, Triyani Hendrawati, and Gumgum Darmawan
3	13.12 - 13.28	Ensemble UNet with Variant Encoders for Liver Segmentation	Chipta Dwi Ramadian, Anindya Apriliyanti Pavitasari, Defi Yusti Faidah, Mohammad Hamid Asnawi, Farhat Gumelar, Triyani Hendrawati, and Gumgum Darmawan
4	13.28 - 13.44	Facial Image Classification for Pain Detection using Convolutional Neural Network with VGGNet Architecture and Attention Module	Riza Fazhriansyah Hermawan, Anindya Apriliyanti Pravitasari, Triyani Hendrawati, and Muhammad Yasyfi Avicenna
5	13.44 - 14.00	Facial Image Classification for Real Time Pain Detection with Deep Learning MobileNetV2	Muhammad Yasyfi Avicenna, Triyani Hendrawati, Anindya Apriliyanti Pravitasari, Riza Fazhriansyah Hermawan



PARALLEL SESSIONS DAY 1

Theme: Bayesian and Time Series

Moderator : Yeny Krista Franty, S.Si., M.Si

No	Time	Paper Title	Authors
1	12.40 - 12.56	Uncertainty quantification of future adult smokers in Indonesia using Sheffield Elicitation Framework (SHELF)	Budhi Handoko, Yeny Krista Franty
2	12.56 - 13.12	Multilevel Regressions to Identify Individual Effects and Group Effects on Learning Achievement	Muhammad Rhafi Ahdian, Bertho Tantular, Yusep Suparman
3	13.12 - 13.28	A modularised bayesian approach for palaeoclimate reconstruction	Yeny Krista Franty, Budhi Handoko
4	13.28 - 13.44	Multivariate Bayesian Semiparametric Regression Model for Forecasting and Mapping HIV and TB Risks in West Java, Indonesia	I. Gede Nyoman Mindra Jaya, Budhi Handoko, Yudhie Andriyana, Anna Chadidjah, Farah Kristiani and Mila Antikasari

Theme: Multivariate 1

Moderator : Dr.Triyani Hendrawati,S.Si.,M.Si.

No	Time	Paper Title	Authors
1	12.40 - 12.56	Multidimensional Scaling Analysis On Mapping Climate Elements In Indonesia	Muhammad Ario Winaya, Nadia Qudsia, Nadya Tuhfa Fadhila Anggiani
2	12.56 - 13.12	Regional Clustering Based on Factors Affecting Dengue Fever Cases in West Java Province Indonesia	Triyani Hendrawati, Haana Lahanda Putri Samsi, and Ihksa Munawwaroh
3	13.12 - 13.28	Mapping 27 Region of West Java Province Based on Factors Affecting Malnutrition Cases in Toddlers in 2022 Using Multidimensional Scaling (MDS)	Hallen Naafi Aliya Rachman , Nisa Akbarilah Putri, and Triyani Hendrawati
4	13.28 - 13.44	Mapping of District Group in Papua Based on United Nations Indicators of Adequate Drinking Water and Sanitation Access in 2021	Yekti Widyaningsih, Divina Fatriandira, Ida Fithriani
5	13.44 - 14.00	Hierarchical Cluster Analysis for Grouping Provinces in Indonesia Based on People's Welfare Indicators	Aissa Putri, Restu Arisanti, Sri Winarni, and Resa Septiani Pontoh



PARALLEL SESSIONS DAY 2

Theme: GLM and Gaussian Process

Moderator : Dr. Restu Arisanti, M.Si.

No	Time	Paper Title	Authors
1	09.15 - 09.31	The Impact of Error Specification on Type I Error in Negative Binomial Mixed Models	Restu Arisanti, Resa Septiani Pontoh, Sri Winarni
2	09.31 - 09.47	Clustering of Childhood Diarrhoeal Diseases using Gaussian Mixture Model	Ashilla Maula Hudzaifa, Defi Yusti Faidah
3	09.47 - 10.03	Gaussian Process Regression for Stock Price Prediction: Mitigating Computational Complexity with Partition Resampling	Sri Winarni, Restu Arisanti, Resa Septiani Pontoh
4	10.03 - 10.19	Negative Binomial Regression Analysis Of Welfare's Impact On Crime Involving Fraud, Embezzlement, And Corruption In Indonesia	Nabila Dhia Alifa Rahmah, Shania Puspita Sari, Irlandia Ginanjar, Restu Arisanti
5	10.19 - 10.35	Space-Time Varying Coefficient Model on Longitudinal Data of the Dengue Fever in Bandung City	Bertho Tantular, Budi Nurani Ruchjana, Yudhie Andriyana

Theme: Economic and Actuary

Moderator: Achmad Zanbar Soleh, S.Si., M.Si.

No	Time	Paper Title	Authors
1	09.15 - 09.31	Determination of Endowment Insurance Premium with Survival Modeling of Incomplete Data	Fariz Muhammad Azhar, Sendy Winardi Sovian, Achmad Zanbar Soleh, and Lienda Noviyanti.
2	09.31 - 09.47	Life Insurance Stochastic Interest Rate Model Using Compound Poisson Process and Non-Homogeneous Poisson Process	Lienda Noviyanti, Achmad Zanbar Soleh and Diva Maurizca
3	09.47 - 10.03	Net Premium Estimation on Term-health Insurance Based on Markov Chain	Sendy Winardi Sovian, Fariz Muhammad Azhar, Lienda Noviyanti, Achmad Zanbar Soleh
4	10.03 - 10.19	Constructing A Model of Value Range to Accommodate Uncertainty in Property Valuation	Djoko Setijono Ko
5	10.19 - 10.35	Analysis of District/City Economic Resilience in West Java	Titi Purwandari, Yuyun Hidayat



PARALLEL SESSIONS DAY 2

Theme: Spatial Statistics

Moderator: Dr. I Gede Nyoman Mindra Jaya, M.Si.

No	Time	Paper Title	Authors
1	09.15 - 09.31	Analysis of Factors Explaining Crime Rates in North Sumatra 2019-2021 Using Geographically and Temporally Weighted Regression (GTWR)	Eslim Suyangsu Rohmanullah, Yekti Widyaningsih, Siti Nurrohmah
2	09.31 - 09.47	Analysis of Factors Explaining the Senior High School Dropout Rate in East Nusa Tenggara Province in 2019-2021 Using Geographically Weighted Panel Regression	Yekti Widyaningsih, Hana Adzania Nufaisah
3	09.47 - 10.03	Analysis of Variables that Explain Life Expectancy in West Java Province in 2021 Using Geographically Weighted Regression (GWR) and Mixed Geographically Weighted Regression (MGWR) Models	Michael Mario Bramanthyo Adhi, Yekti Widyaningsih, Siti Nurrohmah
4	10.03 - 10.19	Comparison of Analysis Results of Poverty Level in Java Island Using Geographically Weighted Regression Model by Applying Various Spatial Weighting Functions	Zalfa Nurfadhilah Haris, Yekti Widyaningsih, Siti Nurrohmah
5	10.19 - 10.35	Spatiotemporal Forecasting with Missing Observations with Application to Daily PM2.5 Concentrations in Jakarta Province, Indonesia	I Gede Nyoman Mindra Jaya, Henk Folmer, Tafia Hasna
6	10.35 - 10.51	Extreme Temperature Modeling Using Spatial Extreme Value with Max-Stable Processes Model Smith, Brown-Resnick, and Schlather	Sigit Nugroho and Elisabeth Evelin Karuna
7	10.51 - 11.07	Spread of Infectious Diseases: Susceptible Infected Recovered Model with Vaccination and Drug-Resistant Cases (Application on TB Data in Indonesia)	Purnami Widyaningsih, Siti Roqhilu Yumaroh, Dewi Retno Sari Saputro



PARALLEL SESSIONS DAY 2

Theme: Multivariate 2

Moderator: Dr. Irlandia Ginanjar, M.Si.

No	Time	Paper Title	Authors
1	09.15 - 09.31	IndoBERT for University Chatbot Using Intent Classification	Ni Gusti Ayu Putu Meyrasinta Susila, Anindya Aprilianti Pravitasari, Afrida Helen, Najma Rafifah Putri Syallya
2	09.31 - 09.47	Determine Non-Symmetrical Dependencies for Categories of Age and COVID-19 Patient Status in West Java using Correspondence Analysis	Irlandia Ginanjar, Eric J. Beh, Bertho Tantular, Anindya A. Pravitasari
3	09.47 - 10.03	Grouping Sub-districts in Kuningan Regency Based on Poverty Factors Using PCA-SVD and K-Medoids	Fadhlan Musyaffa, Gumgum Darmawan, Defi Yusti Faidah
4	10.03 - 10.19	Implementation of Neural Basis Expansion Analysis for Interpretable Time Series Generic (N-Beats-G) Based on Cloud Computing on Brent Crude Oil Price Data	Dewi Retno Sari Saputro, Fadiah Khairina, and Purnami Widyaningsih
5	10.19 - 10.35	Customer Lifetime Value (CLV) Model and K-Nearest Neighbor Classifier: A case study on Customer Churn Prediction on Infant Powdered Milk Product Segment	Rany D. Cahyaningtyas, Yekti Widyaningsih, and Gianinna Ardaneswari
6	10.35 - 10.51	Investigating the Role of Group Matrix Ring $M_2(R)$ in Linear Binary Code Generation	Sisilia Sylviani, Ema Carnia and Nita Anastasya
7	10.51 - 11.07	Utilizing IndoBERT for Efficient University Department Chatbot Development	Najma Rafifah Putri Syallya , Anindya Aprilianti Pravitasari, Afrida Helen, Ni Gusti Ayu Putu Meyrasinta Susila



ABSTRACTS

No	PAPER TITLE	AUTHOR	ABSTRACTS
1	A modularised bayesian approach for palaeoclimate reconstruction	Yeny Krista Franty, Budhi Handoko	File Abstract
2	Analysis of District/City Economic Resilience in West Java	Titi Purwandari, Yuyun Hidayat	File Abstract
3	Analysis of Factors Explaining Crime Rates in North Sumatra 2019-2021 Using Geographically and Temporally Weighted Regression (GTWR)	Yekti Widyaningsih, Eslim Suyangsu Rohmanullah, Siti Nurrohmah	File Abstract
4	Analysis of Factors Explaining the Senior High School Dropout Rate in East Nusa Tenggara Province in 2019-2021 Using Geographically Weighted Panel Regression	Yekti Widyaningsih, Hana Adzania Nufaisah	File Abstract
5	Analysis of Formal Workers and Open Unemployment in Indonesia: Impact of the COVID-19 Pandemic	Aksel Jonata, Hanny Adira Putri, Restu Arisanti, Resa Septiani Pontoh, and Sri Winarni	File Abstract
6	Analysis of Variables that Explain Life Expectancy in West Java Province in 2021 Using Geographically Weighted Regression (GWR) and Mixed Geographically Weighted Regression (MGWR) Models	Yekti Widyaningsih, Michael Mario Bramanthyo Adhi, Siti Nurrohmah	File Abstract
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31	The Comparison Of Forecasting Accuracy Of Gregorian And Lunar Calendar Using Machine Learning Methods	Gumgum Darmawan, Budhi Handoko, Defi Yusti Faidah	File Abstract
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