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STAFF HANDBOOK

Name	**Dr. Zuherman Rustam, DEA**		
Expertise	**Computational Intelligence**		
Academic career		**Institution**	**Year**
	Undergraduate degree	University of Indonesia	1977-1984
	Master degree	University Paris 7, France	1989-1990
	Doctoral degree	University of Indonesia	2001-2006
	Post-doctoral		
Employment	**Position**	**Employer**	**Period**
	Assistant Professor Associate Professor	Universitas Indonesia Universitas Indonesia	1984-2006 2006 -now
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		-
Important publications over the last 5 years	**Selected Recent Publications** 1. **Rustam Z.**, Purwanto A., Hartini S., Saragih G.S., Lung cancer classification using fuzzy C-means and fuzzy Kernel C-means based on CT scan image, IAES International Journal of Artificial Intelligence,2021,Vol 10 (2) 2. **Rustam Z.**, Hartini S., Wirasati I., Aurelia J.E. , An approach for COVID-19 detection using deep convolutional features on chest X-ray images, Journal of Theoretical and Applied Information Technology, 2021,Vol 99 (6) 3. Alaoui E.A.A., Tekouabou S.C.K., Hartini S., **Rustam Z.**, Silkan H., Agoujil S., Improvement in automated diagnosis of soft tissues tumors using machine learning, Big Data Mining and Analytics,2021,Vol 4 (1) 4. Saragih G.S., Hartini S., **Rustam Z.,** Comparison between fuzzy kernel k-medoids using radial basis function kernel and polynomial kernel function in hepatitis classification, IAES International Journal of Artificial Intelligence, 2021,Vol 10 (1) 5. **Rustam Z.**, Amalia Y., Hartini S., Saragih G.S. , Linear discriminant analysis and support vector machines for classifying breast cancer, IAES International Journal		

	of Artificial Intelligence,2021,Vol 10 (1) 6. **Rustam Z**., Hartini S., New feature selection based on kernel, Bulletin of Electrical Engineering and Informatics,2020,Vol 9 (4) 7. **Rustam Z.,** Arfiani, Pandelaki J , .Cerebral infarction classification using multiple support vector machine with information gain feature selection, Bulletin of Electrical Engineering and Informatics,2020,Vol 9 (4) 8. Hartini S., **Rustam Z**., The comparison study of kernel KC-means and support vector machines for classifying schizophrenia, Telkomnika (Telecommunication Computing Electronics and Control),2020,Vol 18 (3) 9. Aroef C., Rivan Y., **Rustam Z. ,** Comparing random forest and support vector machines for breast cancer classification , Telkomnika (Telecommunication Computing Electronics and Control),2020,Vol 18 (3) 10. Sadewo W., **Rustam Z**., Hamidah H., Chusmarsyah A.R. , Pancreatic cancer early detection using twin support vector machine based on kernel, Symmetry,2020, Vol 12 (4) 11. **Rustam Z**., Saragih G.S. , Prediction schizophrenia using random forest , Symmetry,2020,Vol 12 (4) , Telkomnika (Telecommunication Computing Electronics and Control),2020,Vol 18 (3) 12. **Rustam Z.,** Yuda R.P., Alatas H., Aroef C. , Pulmonary rontgen classification to detect pneumonia disease using convolutional neural networks , Telkomnika (Telecommunication Computing Electronics and Control),2020,Vol 18 (3) 13. **Rustam Z.,** Hartini S., Putri N.K., Pandelaki J. , Comparison of Modified Hierarchical Clustering Based on Density Peaks Using Kernel Function with Support Vector Machines in the Classification of Sinusitis, Advances in Intelligent Systems and Computing,2020,Vol 1105 14. **Rustam Z**., Hartini S., Pratama R.Y., Yunus R.E., Hidayat R. , Analysis of architecture combining Convolutional Neural Network (CNN) and kernel K-means clustering Technology,2020, Vol 10 (3) 15. **Rustam Z.,** Utami D.A., Pandelaki J., Putri N.K., Hartini S. , Fuzzy kernel-based clustering and support vector machine algorithm in analyzing cerebral infarction dataset, Lecture Notes in Networks and Systems,2020,Vol 123 16. **Rustam Z.**, Hartini S., Siswantining T., Utami D.A., Putri N.K., Comparison between fuzzy kernel c-means, fuzzy kernel possibilistic c-means and support vector machines in soft tissue tumor classification, 17. Saragih G.S., **Rustam Z**., Aldila D., Hidayat R., Yunus R.E., Pandelaki J. , Ischemic Stroke Classification using Random Forests Based on Feature Extraction of Convolutional Neural Networks, Advances in Intelligent Systems and Computing,2020,Vol 1103

	18. **Rustam Z**., Putri N.K., Pandelaki J., Nugroho W.A., Utami D.A., Hartini S. , Kernel-based fuzzy clustering for sinusitis dataset, Lecture Notes in Networks and Systems,2020,Vol 123 19. Siswantining T., Kamalia A., **Rustam Z**., Subroto F., Semendawai A.S. , Classification of thalassemia data using K-nearest neighbor and Naïve Bayes, International Journal of Advanced Science and Technology, 2019,Vol 28 (8) 20. **Rustam Z.,** Ramadhany F.D., Siswantining T., Subroto F., Suryansyah A. , Classification thala Technology, 2019,Vol 28 (8) 21. **Rustam Z.,** Talita A.S., Pertiwi L.A.M. , Decision making in the indonesian stock exchange using a fuzzy logic method, Journal of Theoretical and Applied Information Technology,2019,Vol 97 (14) 22. **Rustam Z.,** Takbiradzani K. , Application of support vector regression for Jakarta stock composite index prediction with feature selection using laplacian score, 23. **Rustam Z.,** Kintandani P. , Application of Support Vector Regression in Indonesian Stock Price Prediction with Feature Selection Using Particle Swarm Optimisation, Modelling and Simulation in Engineering,2019,Vol 2019 24. **Rustam Z.,** Nurrimah, Hidayat R. , Indonesia composite index prediction using Fuzzy Support Vector Regression with fisher score feature selection, International Journal on Advanced Science, Engineering and Information Technology,2019,Vol 9 (1) 25. **Rustam Z.,** Pandelaki J., Utami D.A., Hidayat R., Ramli A.A. , Comparison support vector machine and fuzzy possibilistic C-Means based on the kernel for knee osteoarthritis data classification, International Journal on Advanced Science, Engineering and Information Technology,2019,Vol 9 (6) 26. **Rustam Z**., Kamalia A., Hidayat R., Subroto F., Suryansyah S.A. , Comparison of Fuzzy C-Means, Fuzzy Kernel C-Means, and Fuzzy Kernel Robust C-Means to Technology,2019,Vol 9 (4) 27. **Rustam Z**., Utami D.A., Hidayat R., Pandelaki J., Nugroho W.A. , Hybrid preprocessing method for support vector machine for classification of imbalanced cerebral infarction datasets, International Journal on Advanced Science, Engineering and Information Technology,2019,Vol 9 (2) 28. **Rustam Z.,** Talita A.S., Fuzzy kernel C-means algorithm for intrusion detection systems , Journal of Theoretical and Applied Information Technology,2015, Vol 81 (1) 29. **Rustam Z**., Talita A.S., Fuzzy kernel K-medoids algorithm for multiclass multidimensional data classification, Journal of Theoretical and Applied Information Technology,2015,Vol 80 (1)
Scholar UI ID	**https://scholar.ui.ac.id/en/persons/zuherman-rustam**

	Organization	Role	Period

Activities in specialist bodies over the last 5 years			