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STAFF HANDBOOK

Name	Fajar Adi Kusumo, Dr.		
Post	Dynamical System		
Academic Career		Institution	Year
	Initial Academic Appointment	Universitas Gadjah Mada	2000
	Post Doctoral	-	-
	Doctoral Degree	Institut Teknologi Bandung, Indonesia	2008
	Master Degree	Institut Teknologi Bandung, Indonesia	2002
	Undergraduate Degree	Universitas Gadjah Mada, Indonesia	1999
Employment		Employer	Period
	Prospective Employee	Universitas Gadjah Mada	01-12-2002 – 31-10-2004
	Instructor	Universitas Gadjah Mada	01-11-2004 – 30-06-2009
	Assistant Professor	Universitas Gadjah Mada	01-07-2009 – now
	Associate Professor		
	Full Professor		
Research and development projects over the last 5 years	<p>Name Project : Mathematical Modeling of Cancer Prognosis Period : 2016 – 2018 Partner : Faculty of Medicine UGM Amount of Financing : IDR. 600,000,000</p> <p>Name Project : Development of the Weather Prediction Model to Anticipate the Extreme Weather and Climate Change Period : 2015 – 2016 Amount of Financing : IDR. 180,000,000</p> <p>Name Project : Development of the Weather Prediction Model to Anticipate the Extreme Weather and Climate Change Period : 2015 – 2016 Amount of Financing : IDR. 180,000,000</p>		

	<p>Name Project : Pengembangan Model Prediksi Cuaca dalam Rangka Mengantisipasi Cuaca Ekstrem dan Perubahan Iklim di Indonesia Period : 2016 (Hibah Penelitian Strategis Nasional (lanjutan), Principal Investigator) Amount of Financing : IDR. 90,000,000</p> <p>Name Project : Pemodelan Dinamik dari Interaksi antar Komponen Cuaca Berbasis Analisis Granger-Causality Period : 2017 (Hibah Penelitian Dosen Departemen Matematika FMIPA UGM, Principal Investigator) Amount of Financing : IDR. 15,000,000</p>							
Industry collaborations over the last 5 years	<p>Project title :</p> <p>Partners:</p>							
Patents and proprietary rights	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Title</th> <th style="width: 50%; text-align: center;">Year</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> </tr> <tr> <td style="height: 20px;"> </td> <td> </td> </tr> </tbody> </table>	Title	Year					
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Important publications over the last 5 years	<p style="text-align: center;">Selected recent publications form a total of approx.: 11</p> <p>Utami, H., Adi-Kusumo, F., Gunardi, Nurjani, E., Today-Yamamoto Approximation For the Granger Causality Analysis of Climate Attributes in Yogyakarta, <i>Far East Journal of Mathematical Sciences</i>, Vol 101., no 5, (2017), 1073-1083.</p> <p>Adi-Kusumo, F., Gunardi, Utami, H., Endrayanto, I.A., Nitisapto, M., Wijaya, T.A., Sopaheluwakan, A., Christiawan, T., Climate Changes Detection Using Bayesian Change Point Methods and Emprical Orthogonal Function for Improving the Traditional Cropping Calendar in Gunung Kidul Regency of Indonesia, <i>Advances and Application in Statistics 2016</i>, Vol 49, no 5, (2016) 287-398.</p> <p>Adi-Kusumo, F., Wiraya, A., Mathematical modeling of the cells repair regulations in Nasopharyngeal carcinoma, <i>Mathematical Biosciences</i>, 277 (2016) 108-116.</p> <p>Adi-Kusumo, F., Gunardi, Utami, H., Nurjani, E., Sopaheluwakan, A., Endrayanto, I.A., Christiawan, T., Application of the empirical orthogonal function to study the rainfall pattern in Daerah Istimewa Yogyakarta province, <i>AIP Conference Proceedings</i>, Vol 1707, 05001 (2016).</p> <p>Adi-Kusumo, F., Winanda, R. S., Bifurcation Analysis of The Cervical Cancer Cells, Effector Cells, And Il-2 Compounds Interaction Model with Immunotherapy, <i>Far East Journal of Mathematical Sciences</i>, Vol 99., no 6, (2016), 869-883.</p> <p>Gunardi, Adi-Kusumo, F., Endrayanto, I.A., Utami, H., Nitisapto, M., Wijaya, T.A., Climate Change Detection Using Bayesian Change Point</p>							

Method for Improving the Traditional Cropping Calendar in DIY Province Indonesia, *International Journal of Computing and Optimization*, Vol 3, no 1, (2016) 11-20.

Asih, T.S.N, Lenhart, S., Wise, S., Aryati, L., **Adi-Kusumo, F.**, Hardianti, M. S., Forde, J., The Dynamics of HPV Infection and Cervical Cancer Cells, *Bull Math Biol*, (2016) 78:4-20

Asih, T.S.N., **Adi-Kusumo, F.**, Aryati, L., Hardianti, M.S., The Metastasis Behavior In The Cervical Cancer Mathematical Model, *Far East Journal of Mathematical Sciences*, Vol 96, 8, 981 – 990, 2015

Adi-Kusumo, F., Aini, A. N., Endrayanto, I. A., Gunardi, Bifurcation Analysis in a Dengue Disease Model with Two Virus Serotypes, *Int. J. Appl. Math. Stat.*, Vol. 53; Issue No. 6; Year 2015.

Adi-Kusumo, F., Aini, A. N., Ridwan, M., Analysis of the Dengue Disease Model with Two Virus Strain, *AIP Conference Proceedings* **1587**, 7 (2014)

Tuwankotta, J.M., **Adi-Kusumo, F.**, Ivanky, K.V.I., A Three-dimensional Singularly Perturbed Conservative System with Symmetry breaking, *J. Phys. A: Math. Theor.* 46 (2013) 305101 (15pp)

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<p>Activities in specialist bodies over the last 5 years <i>(Membership without a specific role need not be mentioned)</i></p>	<p>Organization</p>	<p>Role</p>	<p>Period</p>