



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Mathematics Department

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## Undergraduate Programme in Mathematics

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## STAFF HANDBOOK

Name	Dr. Irwan Endrayanto Aluicius, S.Si., M.Sc.		
Position	Mathematics		
Academic Career		Institution	Year
	Initial Academic Appointment	Universitas Gadjah Mada	1996
	Post Doctoral		
	Doctoral Degree	Universiteit Twente, the Netherlands	2013
	Master Degree	Universiteit Twente, the Netherlands	2000
	Undergraduate Degree	Universitas Gadjah Mada	1996
Employment	Position	Employer	Period
	Teaching Assistant	Univesitas Gadjah Mada	1996-2010
	Instructor	Univesitas Gadjah Mada	2011-current
	Assistant Professor		
	Associate Professor		
Full Professor			
Research and development projects over the last 5 years	<p><b>Name of Project:</b> IMPROVING HEALTH CARE OPERATIONS VIA OPTIMAL RESOUCE ALLOCATION AND LOGISTIC DESIGN</p> <p><b>Research Focus:</b> Health Care Optimisation</p> <p><b>Partners:</b></p> <ul style="list-style-type: none"> <li>Health Case Magister Management of Faculty of Medicine, Universitas Gadjah Mada</li> <li>Centre for Healthcare Operations Improvement and Research (CHOIR), University of Twente</li> </ul> <p><b>Amount of financing:</b> IDR. 554,000,000. ( 42.500 USD)</p> <p><b>Period:</b> 2014 – now</p>		

Industry collaborations over the last 5 years			
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	Selected recent publications 7 publications in the last 5 years, form a total of approx.: 15 publications since 2002		
	<ol style="list-style-type: none"> <li>1. Syarifah Inayati, Irwan Endrayanto, <i>Optimization of the toll charges by using an effective algorithm: The case in Semarang traffic network</i>, THE 2016 CONFERENCE ON FUNDAMENTAL AND APPLIED SCIENCE FOR ADVANCED TECHNOLOGY (CONFAST 2016): Proceeding of ConFAST 2016 Conference Series: International Conference on Information System and Applied Mathematics, 2016</li> <li>2. Mardhani Riasetiawan, Ahmad Ashari, Irwan Endrayanto, <i>The Analyses on Dynamic and Dedicated Resource Allocation on Xen Server</i>, TELKOMNIKA (Telecommunication Computing Electronics and Control), 2016, Volume 14 (1), 280-285, 2016</li> <li>3. Mardhani Riasetiawan, Ahmad Ashari, Irwan Endrayanto, <i>Distributed Replicated Block Device (DRDB) implementation on cluster storage data migration</i>, 2015 International Conference on Data and Software Engineering (ICoDSE), 93-97, 2015</li> <li>4. Mardhani Riasetiawan, Ahmad Ashari, Irwan Endrayanto, <i>Virtual Machine Optimization Use Dynamic Resource Allocation On Xenserver</i>, Journal of Theoretical and Applied Information Technology 80 (3), 576, 2016</li> <li>5. A.I. Endrayanto, A.F. Gabor, R.J. Boucherie, <i>Joint Power and Rate Assignment for Downlink Throughput Maximization in Multi-Cell CDMA</i>, International Journal of Applied Mathematics and Statistics™ 53 (6), 230-251, 2016.</li> <li>6. F Adi-Kusumo, A.N. Aini, A.I. Endrayanto, <i>Bifurcation Analysis in a Dengue Disease Model with Two Virus Serotypes</i>, International Journal of Applied Mathematics and Statistics™ 53 (6), 173-179, 2016.</li> <li>7. LS Heliani, N Widjajanti, I Endrayanto, H Panuntun, <i>Preprocessing of coastal satellite altimetry, tide gauges, and GNSS data: Towards the possibility of detected vertical deformation of South Java island</i>, Procedia Environmental Sciences 17, 308-316, 2015.</li> </ol>		
Activities in specialist bodies over the last 5 years <i>(Membership without a specific role need not be mentioned)</i>	Organization	Role	Period
	IndoMS	Database & Website Division	2012-2014, 2014-2016