



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

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## STAFF HANDBOOK

Name	<i>Solikhatus</i>												
Post	<i>Applied Mathematics</i>												
Academic career	<table> <thead> <tr> <th><i>Initial academic appointment</i></th> <th><i>Institution</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Doctorate (Math)</i></td> <td><i>Institut Teknologi Bandung</i></td> <td><i>2016</i></td> </tr> <tr> <td><i>Master's degree (Math)</i></td> <td><i>Universitas Gadjah Mada</i></td> <td><i>2005</i></td> </tr> <tr> <td><i>Undergraduate degree (Math)</i></td> <td><i>Universitas Gadjah Mada</i></td> <td><i>2002</i></td> </tr> </tbody> </table>	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>	<i>Doctorate (Math)</i>	<i>Institut Teknologi Bandung</i>	<i>2016</i>	<i>Master's degree (Math)</i>	<i>Universitas Gadjah Mada</i>	<i>2005</i>	<i>Undergraduate degree (Math)</i>	<i>Universitas Gadjah Mada</i>	<i>2002</i>
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Employment	<i>Lecturer</i> <i>Universitas Gadjah Mada</i> <i>2003-now</i>												
Research and development projects over the last 5 years	<p><i>Development of a prototype seed viability measurement machine for tomato and non-seeded watermelon based on hyperspectral and X-ray imaging with deep learning analysis, Mei 2023-April 2024, Amount of financing: Rp 1.909.311.000</i></p> <p><i>Robust sliding mode control for interconnected linear systems, April-November 2023, Amount of financing: Rp 15.000.000</i></p> <p><i>Sliding mode control for interconnected bilinear systems, April-November 2022, Amount of financing: Rp 15.000.000</i></p> <p><i>Robust model predictive control for interconnected bilinear systems, April-November 2021, Amount of financing: Rp 15.000.000</i></p> <p><i>Model and control design on green house for horticulture plants, April-November 2020, Amount of financing: Rp 15.000.000</i></p> <p><i>Automatic control of Greenhouses for the Cultivation of Commercial Horticultural Crops Vulnerable to Microclimate Change, April-November 2019, Amount of financing: Rp 100.000.000</i></p> <p><i>Automatic control of Greenhouses for the Cultivation of Commercial Horticultural Crops Vulnerable to Microclimate Change, April-November 2019, Amount of financing: Rp 77.000.000</i></p>												
Industry collaborations over the last 5 years	<i>Development of a Prototype Seed Viability Measurement Machine for Tomato and Non-seeded Watermelon Based on Hyperspectral and X-ray Imaging with Deep Learning Analysis.</i>												
Patents and proprietary rights	<table> <thead> <tr> <th><i>Title</i></th> <th><i>Year</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>										
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Important publications over the last 5 years	<i>The robust model predictive control design for linear interconnected systems, 2023, Jurnal Ilmu Dasar, Vol 24 No 2.</i>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
			<i>1 Januari 2022-31 Desember 2023</i>
	<i>The Indonesian Mathematical Society</i>		