

**STAFF HANDBOOK  
INFORMATICS DEPARTMENT  
FACULTY OF ENGINEERING  
UNIVERSITAS HASANUDDIN**

|   |   |   |                        |
|---|---|---|------------------------|
| Name  | Ingrid Nurtanio   |   |                        |
| Position  | Assistant Professor   |   |                        |
| Academic Career   | Initial Academic Appointment  | Institution   | Year                   |
|   | Lecturer  | Universitas Hasanuddin  | 1988 - now             |
|   | Habilitation (postdoctoral)   | Institution   | Year                   |
|   | Computer Science  | Ehime University  | April 2015 - July 2015 |
|   | Doctorate   | Institution   | Year                   |
|   | Electrical Engineering  | Sepuluh November Institute of Technology (ITS)  | 2009 - 2013            |
|   | Master (subject)  | Institution   | Year                   |
|   | Electrical Engineering  | Universitas Hasanuddin  | 1997 - 2002            |
|   | Undergraduate (subject)   | Institution   | Year                   |
| Employment  | Electrical Engineering  | Universitas Hasanuddin  | 1980 - 1986            |
|   | Position  | Employer  | Period                 |
| Research and development projects over the last 5 years | Lecturer  | Informatics Department, Universitas Hasanuddin  | 1988 - now             |
|   | Name of project or research focus                                   | Sistem Cerdas Pengalokasian Matriks Durian Jatuh untuk Reservasi Kualitas Produk ke Pasar |                        |
|   | Period and any other information                                    | 2019  |                        |
|   | Partners, if applicable   |   |                        |
|   | Amount of financing   | 83,000,000  |                        |
|   | Name of project or research focus                                   | Sistem Penerjemah Bahasa Isyarat Sebagai Alat Bantu bagi Tuna Rungu                       |                        |
|   | Period and any other information                                    | 2018  |                        |
|   | Partners, if applicable   |   |                        |
|   | Amount of financing (Rp)  | 36,498,000  |                        |
|   | Name of project or research focus                                   | Sistem Identifikasi dan Pengukuran Berat Sapi menggunakan Smart Farming di Industry 4.0   |                        |
|   | Period and any other information                                    | 2019  |                        |
|   | Partners, if applicable   |   |                        |
|   | Amount of financing (Rp)  | 103,000,000   |                        |
|   | Name of project or research focus                                   | Deteksi Potensi Penyakit Berdasarkan Iridologi  |                        |
|   | Period and any other information                                    | 2019  |                        |
|   | Partners, if applicable   |   |                        |
|   | Amount of financing (Rp)  | 8.000.000   |                        |
| Name of project or research focus                       | Intelligent Teledermatology System untuk Smart Hospital             |   |                        |
| Period and any other information                        | 2021  |   |                        |
| Partners, if applicable                                 | Institut Teknologi Sepuluh Nopember Surabaya, Universitas Indonesia |   |                        |
| Amount of financing (Rp)                                |   |   |                        |

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|---|--|--|------|
|   | Name of project or research focus  | Aplikasi Penghitung Jumlah Perenang Pada Kolam Renang  |      |
|   | Period and any other information   | 2020   |      |
|   | Partners, if applicable  |  |      |
|   | Amount of financing (Rp)   | 8.000.000  |      |
|   | Name of project or research focus  | Pengembangan Aplikasi Kolaborasi Informasi Perkuliahan Menggunakan Metode Feature Driven Development                 |      |
|   | Period and any other information   | 2021   |      |
|   | Partners, if applicable  |  |      |
|   | Amount of financing (Rp)   | 8.000.000  |      |
| Industry collaborations over the last 5 years | Project Titles   | -  |      |
|   | Partners   | -  |      |
| Patents and proprietary rights                | Titles   |  | Year |
|   |  |  |      |
| Important publications over the last 5 years  | Selected recent publications from a total of approx.   |  |      |
|   | (Give total number)  | 6  |      |
|   | Author   | Indrabayu , <b>Ingrid Nurtanio</b> , Intan Sari Areni, Sri R. A. Bugiwati, Anugrayani Bustamin, Muhammad Rahmatullah |      |
|   | Title  | A Portable Cattle Tagging Based on Muzzle Pattern  |      |
|   | Any other information  | Indexed in scopus  |      |
|   | Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers  | International Journal of Interactive Mobile Technologies, 2020, 14(13), pp. 134–149                                  |      |
|   | Author   | Usman Umar , Syafruddin Syarif, <b>Ingrid Nurtanio</b> and Indrabayu   |      |
|   | Title  | Development reflective optical sensor for blood cholesterol measurement using LED infrared 940 nm                    |      |
|   | Any other information  | Indexed in scopus  |      |
|   | Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers  | International Journal of Engineering Research and Technology, 2020, 13(12), pp. 4899–4907                            |      |
| Author  | Anak Agung Putri Ratna, Frenzel Timothy Surya, Diyanatul Husna, I Ketut Eddy Purnama, <b>Ingrid Nurtanio</b> , Afif Nurul Hidayati, Mauridhi Hery Purnomo, Supeno Mardi Susiki Nugroho, Reza Fuad Rachmadi |  |      |

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|   |   |   |           |
|---|---|---|-----------|
|   | Title   | Chaos-Based Image Encryption Using Arnold's Cat Map Confusion and Henon Map Diffusion                       |           |
|   | Any other information   | indexed in scopus   |           |
|   | Publisher, place of publication or name of periodical, volume, issue, page numbers                      | Adv. Sci. Technol. Eng. Syst. J.2021, 6(1), pp. 316-326 ;   |           |
|   | Author  | Akhmad Qashlim, Basri Basri, Haeruddin Haeruddin, Ardan Ardan, <b>Ingrid Nurtanio</b> , Amil Ahmad Ilham    |           |
|   | Title   | Smartphone Technology Applications for Milkfish Image Segmentation Using OpenCV Library                     |           |
|   | Any other information   | Indexed in scopus   |           |
|   | Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers | International Journal of Interactive Mobile Technologies, 2020, 14(8), pp. 150–163                          |           |
|   | Author  | Sitti Wetenriajeng Sidehabi, Ansar Suyuti , Intan Sari Areni and <b>Ingrid Nurtanio</b>                     |           |
|   | Title   | The Development of Machine Vision System for Sorting Passion Fruit using Multi-Class Support Vector Machine |           |
|   | Any other information   | Indexed in scopus   |           |
|   | Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers | Journal of Engineering Science and Technology Review 11 (5) (2018) 178 - 184                                |           |
|   | Author  | Indrabayu,, Putra, R.H., <b>Nurtanio, I.</b> , Areni, I.S., Bustamin, A.                                    |           |
|   | Title   | Blob adaptation through frames analysis for dynamic fire detection  |           |
|   | Any other information   | Indexed in scopus   |           |
|   | Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers | Bulletin of Electrical Engineering and Informatics,, 2020, 9(5), pp. 2189–2197                              |           |
| Activities in specialist bodies over the last 5 years | Organization  | Role  | Period    |
|   | IEEE  | Member  | 2016-now  |
|   | IEEE Engineering in Medicine and Biology Society  | Member  | 2016-2019 |
|   | IAENG   | Member  | 2011-now  |
|   | APTİKOM (Asosiasi Perguruan Tinggi Komputer)  | Member  | 2016-now  |

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