## Dr. Ir. Mahmud Achmad, MP

| Name   | Dr. Ir. Mahmud Achmad, MP  |   |  |                               |  |  |
|--|--|---|--|-------------------------------|--|--|
| Post   | Water Resource Engineering dan Management  |   |  |                               |  |  |
| Academic<br>Career   | Doctorate Degree   | University  |  | Year                          |  |  |
|  | Agricultural, Civil & Env. (ACE) Engineering   | University of Southern<br>Queensland, Australia         |  | 2010                          |  |  |
|  | Magister Degree  | University  |  | Year                          |  |  |
|  | Agricultural Mechanization   | Gadjah Mada University                                  |  | 1998                          |  |  |
|  | Bachelor Degree  | University  |  | Year                          |  |  |
|  | Agricultural Mechanization   | Hasanuddin University                                   |  | 1993                          |  |  |
| Employment   | Lecturer, Bachelor Programme of<br>Agricultural Engineering, Faculty of<br>Agriculture                     | Hasanuddin University                                   |  | -present                      |  |  |
|  | Head of the Department of Agricultural Technology  | Hasanud   | Hasanuddin University 2012-2018  |                               |  |  |
|  | Title of Research  | Year  | Funding  |                               |  |  |
| Research and<br>Development<br>Projects Over<br>the Last 5 Years | Predicting the Impact of Land-use<br>Change on Soil Erosion Rate<br>(Team leader)                          | 2020  | Internal Funding for Researcher,<br>Hasanuddin University                              |                               |  |  |
|  | Land Optimization for Low Land<br>Paddy in Mamuju Tengah, West<br>Sulawesi<br>(Team leader)                | 2021  | Rp. 150.000.000 (€9177.87)   |                               |  |  |
|  | Survey Investigation and Design of Irrigation Network Development of West Sulawesi Province (Team leader)  | 2022  | Rp 270.000.000 (€16520.17)   |                               |  |  |
|  | Microclimate and Soil Moisture Control for Optimizing Kale Chinese Vegetable Cultivation (Team member)     | 2023  | Internal Funding for Researcher,<br>Hasanuddin University<br>IDR 65000000,- (€3896,35) |                               |  |  |
| Industry   | Title  |   | Year   |                               |  |  |
| Collaborations Over the Last 5 Years                             | -  |   |  | -                             |  |  |
| Patents and  | Title  |   |  | Year                          |  |  |
| Proprietary<br>Rights  | -  | -   |  |                               |  |  |
| _  | Title  | Journa  | l Name   | Year/Vol/Number               |  |  |
| Important Publications   | Usability Testing of an Android<br>Application of Tractor Distribution<br>Information System (GIS Tractor) | IOP Conf. Series: Earth<br>and Environmental<br>Science |  | Vol. 14, No. 8, April<br>2019 |  |  |

Over the Last 5

Years

| Infiltration Model Of Mediterranean Soil With Clay Texture  Impact of Land Use Change on Groundwater Flow Using SWAT Model Study Case: Tanralili Sub Watershed  Predicting the Impact of Land-use Changes on Soil Erosion Rates in the Three Small Sub-catchments of Larona Catchment  Design and Development of Information System for Tractors Distribution Based on Android in Maros Regency of South Sulawesi  Analisis Genangan Banjir Akibat Debit Puncak of IDAS Baubau Menggunakan HEC-RAS dan GiS  Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Predicting the Impact of Land-use Change on Soil Erosion Rate in Usus Sub-Catchment Area and Sedimentation Vield in Malli River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis Gorong-Gorong  Activities in Organisation  Mel Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Organisation  Notational Period  Role Period  Member 1995 - Now home for period Period  Member 1995 - Now Latton-Intel Latto Sylanisation (Intel Latto Sylanish) Autos/Jointal. Member 1995 - Now Latton-Intel Latto Sylanish Role (Intel Latto Sylanish Bodies Over the Last 5 Years)  Notata Period  Vol 12, No 1 (2023)  Volume 486, 2020  Volume 473, 2020  Volume 486, 2020  Volume 473, 2020  Volume 235, 2019  Volume 2020 - 2022  Volume 1995 - Now National Period Member 1995 - Now National Engineering (ISAE)  National Committee 2020 - 2020                                      |               | <del>r</del>   |                    | 1  |  |  |
|--|---------------|--|--------------------|--|--|--|
| Impact of Land Use Change on Groundwater Flow Using SWAT Model, Study Case: Tanrallil Sub Watershed  Predicting the Impact of Land-use Changes on Soil Erosion Rates in the Three Small Sub-catchments of Larona Catchment  Design and Development of Information System for Tractors Distribution Based on Android in Maros Regency of South Sulawesi  Analisis Genangan Banjir Akibat Debit Puncak di DAS Baubau Menggunakan HEC-RAS dan GIS  Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-Catchment Area and Sedimentation Vield in Maili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Activities in Specialist Rodies Over the Last 5 Years  Indonesia Nove Change Organisation  Rode Period  Member 1995 - Now Mational Engineering (ISAE)  Member 1995 - Now Entone Sci Earth Agricultural Engineering (ISAE)  Nove Change on Soil Erosion Rate in Ussu Sub-Catchment Area and Sedimentation vield in Mailil River  Activities in Specialist Rodies Over the Last 5 Years  National Committee 2020 - 2022  |               |  |                    | Vol 12, No 1 (2023)  |  |  |
| Predicting the Impact of Land-use Changes on Soil Erosion Rates in the Three Small Sub-catchments of Larona Catchment  Design and Development of Information System for Tractors Distribution Based on Android in Maros Regency of South Sulawesi  Analisis Genangan Banjir Akibat Debit Puncak di DAS Baubau Menggunakan HEC-RAS dan GIS  Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Prediksi Debit Aliran Sub-DAS Bantimurung Menggunakan Model HEC-HMS  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Mailit River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Sulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Period Time Period Member (Isa)  Period Time Period Member (Isa)  Indonesian Society of Agricultural Engineering (ISAE)  |               | Groundwater Flow Using SWAT Model,   |                    | Farming and Agricultural   |  |  |
| Design and Development of Information System for Tractors Distribution Based on Android in Maros Regency of South Sulawesi  Analisis Genangan Banjir Akibat Debit Puncak di DAS Baubau Menggunakan HEC-RAS dan GIS  Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Prediksi Debit Aliran Sub-DAS Bantimurung Menggunakan Model HEC-HMS  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Malili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Activities in Specialist Bodies Over the Last 5 Years  Design and Development of Conference on Sustainable Tropical Land Management 16 - 18 September 2020, Bogor, Indonesia  International Conference on Sustainable Tropical Land Management 16 - 18 September 2020, Bogor, Indonesia  Jurnal Pembangunan Wilayah dan Kota  Jurnal Agritechno Vol. 13, Number 2, Oktober 2020  Vol. 13, Number 1, April 2020  Vol. 13, Number 1, April 2020  Volume 486, 2020  Volume 486, 2020  IOP Publishing Volume 473, 2020  Volume 473, 2020  Volume 473, 2020  Volume 235, 2019  Volume 235, 2019  Activities in Specialist Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over Indonesian Society of Agricultural Engineering (ISAE)  Member 1995 - Now National Committee 2020 - 2022                               |               | Changes on Soil Erosion Rates in the Three Small Sub-catchments of Larona  | IOP Publishing     | Series: Earth and Environmental Science, Volume 807, Adapting Agricultural Production to |  |  |
| Puncak di DAS Baubau Menggunakan HEC-RAS dan GIS  Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Prediksi Debit Aliran Sub-DAS Bantimurung Menggunakan Model HEC-HMS  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Malili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Meb-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Ival 127, No 2 (2021)  Wol 17, No 2 (2021)  Vol. 13, Number 1, April 2020  Vol. 14, Nomber 2, Oktober 2020  Vol. 14, Nomor 2, Oktober 2018  Member 1995 - Now  National Committee 2020 - 2022   |               | Information System for Tractors<br>Distribution Based on Android in        | IOP Publishing     | International Conference on Sustainable Tropical Land Management 16 - 18 September 2020, |  |  |
| Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency  Prediksi Debit Aliran Sub-DAS Bantimurung Menggunakan Model HEC-HMS  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Malili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Crops Commodities Based on Spatial Jurnal Agritechno Vol. 13, Number 2, Oktober 2020  Vol. 13, Number 1, April 2020  Vol. 13, Number 1, April 2020  Vol. 13, Number 1, April 2020  Vol. 14, Nomor 2, Oktober 2018  Volume 486, 2020  Volume 473, 2020  Volume 473, 2020  Volume 235, 2019  Volume 235, 2019 |               | Puncak di DAS Baubau Menggunakan   | _                  | Vol 17, No 2 (2021)  |  |  |
| Bantimurung Menggunakan Model HEC-HMS  Predicting the Impact of Land-use Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Malili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Bantimurung Menggunakan Model Jurnal Agritechno  IOP Publishing  Volume 486, 2020  Volume 473, 2020  Volume 473, 2020  Volume 235, 2019  Member 1995 - Now National Committee 2020 - 2022   |               | Crops Commodities Based on Spatial<br>Data in Tanete Riaja District, Barru | Jurnal Agritechno  |  |  |  |
| Change on Soil Erosion Rate in Ussu Sub-catchment Area and Sedimentation Yield in Malili River  Land Use Assessment of Jeneberang Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Change on Soil Erosion Rate in Ussu Sub-catchment Area and Boller Indonesia Society of Agricultural Engineering (ISAE)  IOP Publishing  Volume 473, 2020  Volume 235, 2019   |               | Bantimurung Menggunakan Model  | Jurnal Agritechno  |  |  |  |
| Watershed Using Hydrology and Water Availability Analysis  Climate Change Impacts Related Flood Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Watershed Using Hydrology and IOP Publishing  IOP Publishing  Volume 235, 2019  Vol. 11, Nomor 2, Oktober 2018  Vol. 11, Nomor 2, Oktober 2018  Member 1995 - Now National Committee 2020 - 2022   |               | Change on Soil Erosion Rate in Ussu<br>Sub-catchment Area and              | IOP Publishing     | Volume 486, 2020   |  |  |
| Hazard to Communities Around Bantimurung Bulusaraung National Park, Indonesia  Web-Based Computer Assisted Design Dimensi Bangunan Talang & Gorong-Gorong  Activities in Specialist Bodies Over the Last 5 Years  Hazard to Communities Around Bantimurung Bulusaraung National IOP Publishing  Volume 235, 2019  Member 2018  Member 1995 - Now National Committee 2020 - 2022  |               | Watershed Using Hydrology and  | IOP Publishing     | Volume 473, 2020   |  |  |
| Dimensi Bangunan Talang & Jurnal AgriTechno  Activities in Specialist Bodies Over the Last 5 Years  Dimensi Bangunan Talang & Jurnal AgriTechno  Role Period  Member 1995 - Now National Committee 2020 - 2022   |               | Hazard to Communities Around<br>Bantimurung Bulusaraung National           | IOP Publishing     | Volume 235, 2019   |  |  |
| Specialist Bodies Over the Last 5 Years  Indonesian Society of Agricultural Engineering (ISAE)  Member 1995 - Now National Committee 2020 - 2022   |               | Dimensi Bangunan Talang &  | Jurnal AgriTechno  |  |  |  |
| Bodies Over the Last 5 Years Indonesian Society of Agricultural Engineering (ISAE) National Committee 2020 - 2022  | Activities in | Organisation   | Role               | Period   |  |  |
| the Last 5 Years Engineering (ISAE)  National Committee 2020 - 2022  | 1 -           |  | Member 1995 - Now  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·  |               |  | National Committee | 2020 - 2022  |  |  |
|  |               | https://sinta.kemdikbud.go.id/authors/profile/6005337                      |                    |  |  |  |