

## Peramalan Aliran Masukan Waduk Mrica Menggunakan Model Thomas-Fiering dan Jaringan Syaraf Tiruan ANFIS

<b>Title</b>	Peramalan Aliran Masukan Waduk Mrica Menggunakan Model Thomas-Fiering dan Jaringan Syaraf Tiruan ANFIS
<b>Author Order</b>	1 of 1
<b>Accreditation</b>	
<b>Abstract</b>	Inflow forecasting in hydrology processes is important tool in water resources management, planning, and utilization. The fulfillment of this operational hydrology is very applicable, especially where only an insufficient amount of data collected over an insufficient length of time is available. The Thomas-Fiering Method is one of the most useful and widely used synthetic flow models. In last year's, Artificial Neural Network (ANN) method and Fuzzy Logic have introduced in hydrological processes. Mrica hydropower reservoir in Central Java, Indonesia, has suffered water sustainability and energy sustainability problems since the reservoir management used simple-operator judged water inflow forecasting method. In this paper, an ANN and Fuzzy Logic hybrid algorithm called Adaptive Neuro-Fuzzy Inference System (ANFIS) and Thomas-Fiering model are employed to estimate water inflow to the Mrica reservoir. ANFIS performs better for long-range inflow forecasting, while Thomas-Fiering model was better for short-range forecasting.
<b>Publisher Name</b>	Jenderal Soedirman University
<b>Publish Date</b>	2011-08-02
<b>Publish Year</b>	2011
<b>Doi</b>	DOI: 10.20884/1.dr.2011.7.2.49
<b>Citation</b>	
<b>Source</b>	Dinamika Rekayasa
<b>Source Issue</b>	Vol 7, No 2 (2011): Dinamika Rekayasa - Agustus 2011
<b>Source Page</b>	48-53
<b>Url</b>	<a href="https://dinarek.unsoed.ac.id/jurnal/index.php/dinarek/article/view/49/47">https://dinarek.unsoed.ac.id/jurnal/index.php/dinarek/article/view/49/47</a>
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