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Nama Penulis	:	Rezzy Eko Caraka, Sakhinah Abu Bakar, Muhammad Tahmid, **Hasbi Yasin**, Isma Dwi Kurniawan
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d. Penerbit	:	Universitas Ahmad Dahlan (UAD)
e. DOI artikel (jika ada)	:	http://dx.doi.org/10.12928/telkomnika.v17i4.11788
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Semarang, 16 Juni 2020

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Dr. Rukun Santoso, M.Si.
NIP. 19650225 199201 1 001

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Departemen Statistika Undip

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Prof. Drs. Mustafid, M.Eng., Ph.D.
NIP. 19550528 198003 1 002

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c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12					11,00
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b. Ruang lingkup dan kedalaman pembahasan: Baik dengan materi artikel berhubungan dengan penerapan statistika neural network. Kedalaman pembahasan secara scientific lebih fokus pembahasan pada aspek komputasi.
c. Kecukupan dan kemutahiran data/informasi dan metodologi: Cukup baik, namun isi materi dan hasil penelitian belum focus pda kemutakhiran dalam teori atau metodologi. Isi artikel menggunakan metode yang sudah ada. Artikel menggunakan 28 referensi dan sebagian besar 10 tahun terakhir
d. Kelengkapan unsur dan kualitas penerbit: Artikel dipublikasikan pada "TELKOMNIKA Telecommunication, Computing, Electronics and Control" tahun 2019, terindeks di SCOPUS, nilai SJR = 0,28, quartile ranking Q2, dengan terbitan dua bulanan
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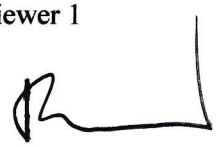

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c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12					11
d. Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	**40**					**37**
Kontribusi Pengusul (Penulis Anggota)	**(40%x37)/4=3,7**					

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b. Ruang lingkup dan kedalaman pembahasan:
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c. Kecukupan dan kemutahiran data/informasi dan metodologi:
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e. Indikasi Plagiasi: …….
   Tidak ditemukan
f. Kesesuaian bidang ilmu: …….
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Neurocomputing fundamental climate analysis (Article) (Open Access)

Caraka, R.E.[a], Bakar, S.A.[a], Tahmid, M.[b], Yasin, H.[c], Kurniawan, I.D.[d]

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[a]School of Mathematical Sciences, FST, The National University of Malaysia, Malaysia
[b]Indonesian Agency for Meteorological, Climatological and Geophysics, BMKG, Indonesia
[c]Department of Statistics, Diponegoro University, Semarang, Indonesia

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Abstract

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Rainfall is a natural phenomenon that needs to be studied more deeply and interesting to be analyzed. It involves numbers of human activities such as aviation, agriculture, fisheries, and also disaster risk reduction. Moreover, the characteristics of rainfall data follows seasonality, fluctuation, not normally distributed and it makes traditional time series challenging to use. Therefore, neurocomputing model can be used as an alternative to extraction information from rainfall data and give high performance also accuracy. In this paper, we give short preview about SST Anomalies in Manado, Northern Sulawesi and at the same time comparing the performance of rainfall forecasting by using three types of neurocomputing methods such as Generalized Regression Neural Network (GRNN), Feed forward Neural Network (FFNN), and Localized Multi Kernel Support Vector Regression (LMKSVR). In a nutshell, all of neurocomputing methods give highly accurate forecasting as well as reach low MAPE FFNN 1.65%, GRNN 2.65% and LMKSVR 0.28%, respectively. © 2019 Universitas Ahmad Dahlan.

SciVal Topic Prominence

Topic: Rain | Weather forecasting | Rainfall prediction

Prominence percentile: 75.324

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GRNN LMKL SVR Rainfall Soft computing

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Telecommunication, Computing, Electronics and Control

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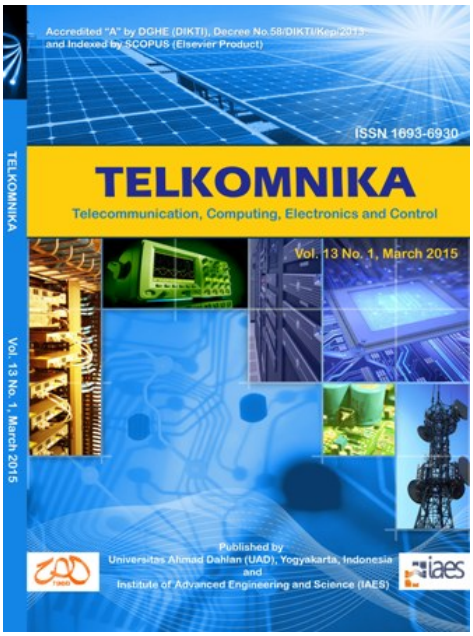

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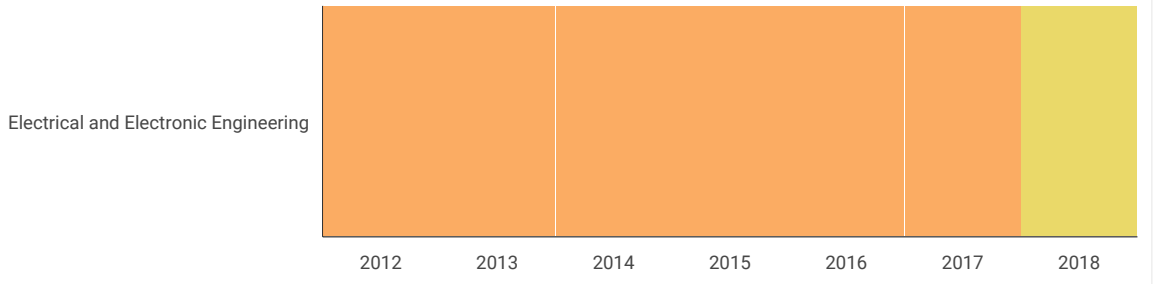

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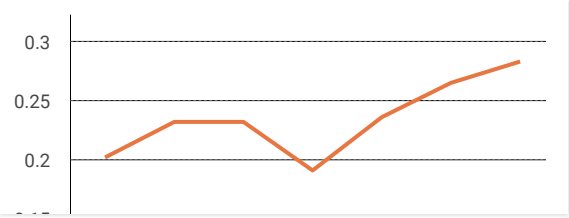

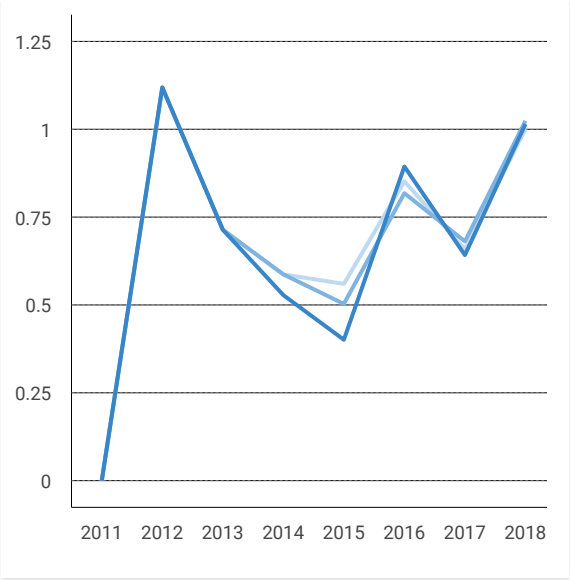

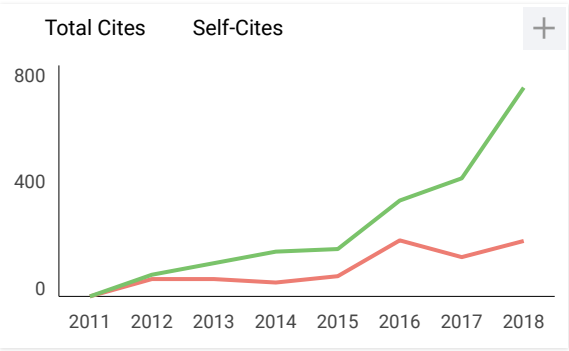

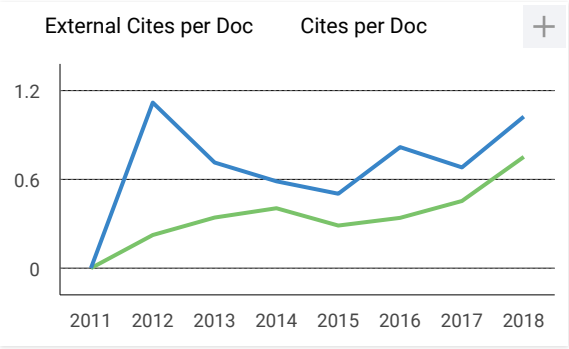

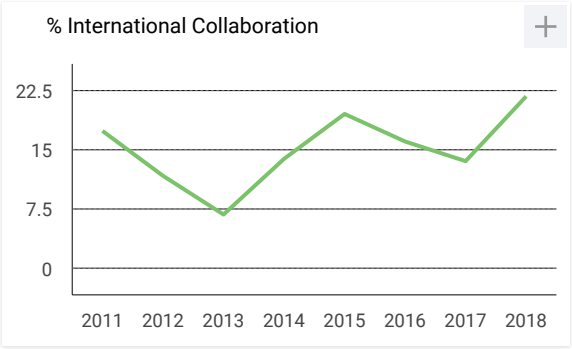

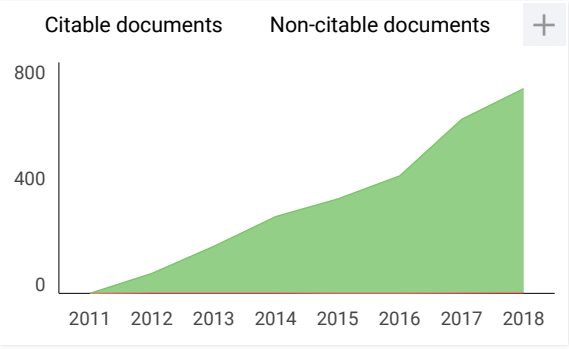

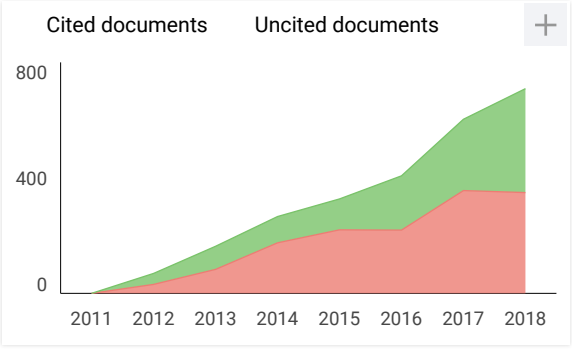

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