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### **Potsdam**

Artificial neural networks Simulate computational properties of brain neurons (Rumelhart, McClelland, & the PDP Research Group, 1995) Learning implicit language knowledge Deep Learning (Hinton, 2007) · Neurons (firing rate = activation) Connections with other neurons (strength of relationship = weights)--- Phonology

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(Elman & McClelland,  
1988 ... Potsdam

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networks - ling.uni-  
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hvasbath uni-potsdam  
de. The work on  
localizing earthquakes  
by using convolutional  
neural networks was  
published in 2018:  
Marius Kriegerowski,  
Gesa M. Petersen,  
Hannes  
Vasyura-Bathke,  
Matthias Ohrnberger

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(2018); A Deep Convolutional Neural Network for Localization of Clustered Earthquakes Based on Multistation Full Waveforms.

### **UP News - University of Potsdam**

At the Cognitive Neuroscience Lab at the University of Potsdam (Rabovsky Lab), we combine explicit computational models (specifically,

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artificial neural network models, aka deep learning models) and neuroscientific evidence (mostly event-related brain potentials, ERPs) in order to understand the neurocognition of language and meaning.

### **Cognitive**

### **Neuroscience Lab - uni-potsdam.de**

- research on interpreting artificial neural networks (as a

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type of black-box AI system) - communicating science about AI to educate the public and other researchers I am confident that combining the strengths of human and artificial intelligence will lead to great technological and societal advances.

**Group Members - uni-  
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fankrug, sstoberg@uni-



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potsdam.de Abstract  
Artificial Neural  
Networks (ANNs) have  
experienced great  
success in the past few  
years. The ... This  
model is a fully-  
convolutional neural  
network, which  
predicts letters from  
spectrograms. We train  
the network on z-  
normalized  
spectrograms, scaled to  
0.128mel-  
frequencybins.  
Each letter prediction can

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n  
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**Introspection for convolutional automatic speech recognition**

A Term-based genetic Code for Artificial Neural Networks. Genetic Algorithms within the Framework of Neural Computation, Proceedings of the KI-94 Workschop, Max-Planck-Institut für Informatik, Saarbrücken, 1994 (My Erdős number is at

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most 4 because Frank  
Stephan's Erdős  
number is 3 and we  
have co-authored a  
paper.)

**Publications -  
Machine Learning  
Group - University of  
Potsdam**

Welcome. As part of  
the Research Focus  
Cognitive Sciences, the  
Machine Learning in  
Cognitive Science Lab  
is dedicated to  
improving the

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#### University of

cognitive abilities of machines and reducing the friction in human-computer interaction. We develop novel signal processing and deep learning algorithms for the analysis of sensory data and investigate new approaches for interacting with machines such as through ...

**Welcome - Machine Learning in**  
*Page 12/27*

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Artificial Neural  
Networks for Beginners  
Carlos Gershenson C.G  
ershenson@sussex.ac.  
uk 1. Introduction The  
scope of this teaching  
package is to make a  
brief induction to  
Artificial Neural  
Networks (ANNs) for  
people who have no  
previous knowledge o  
f them. We first make  
a brief ... Oxford  
University Press.

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**Artificial Neural  
Networks for  
Beginners**

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Institut für  
Geowissenschaften. Dr.  
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+49 331 977 5839 Fax:  
+49 331 977 5700

**Institut für**

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**Geowissenschaften -  
uni-potsdam.de**

Artificial Neural  
Networks (ANN): A  
computing system that  
is designed to simulate  
the way the human  
brain analyzes and  
process information.  
Artificial Neural  
Networks (ANN) is the  
foundation of ...

**Artificial Neural  
Network (ANN)  
Definition**

a,c Universität  
*Page 15/27*

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Berlin - usschulthess@4  
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Neural Networks and ...

### **COMPARISON OF MACHINE LEARNING ALGORITHMS RANDOM FOREST ...**

Event: ESC CONGRESS  
2012 Status: Submitted  
Number: 85832 Title:



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Artificial neural  
network in early  
identification of heart  
failure progression in  
patients with  
telemonitoring  
management of  
chronic

### **Abstract Information** **- theodor.heinze@hp i.uni-potsdam**

Knowledge-Based  
Artificial Neural  
Networks Geoffrey G.  
Towell Jude W. Shavlik  
towell@learning.scr.sie

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262-7784 University of

Wisconsin 1210 West

Dayton St. Madison, WI

53706 Keywords:

machine learning,

connectionism,

explanation-based

learning, hybrid

algorithms, theory

refinement ...

## **Knowledge-Based Artificial Neural Networks**

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Artificial intelligence researchers at North Carolina State University have improved the performance of deep neural networks by combining feature normalization and feature attention modules into a single module that they call attentive normalization (AN). The hybrid module improves the accuracy of the system significantly, while

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using negligible extra computational power.

## **New data processing module makes deep neural networks smarter**

Artificial Neural Network (ANN) is an efficient computing system whose central theme is borrowed from the analogy of biological neural networks. ANNs are also named as “artificial neural

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systems,” or “parallel distributed processing systems,” or “connectionist systems.” ANN acquires a large collection of units that are ...

### **Artificial Neural Network - Basic Concepts -**

### **Tutorialspoint**

Artificial neural networks (ANNs), usually simply called neural networks (NNs),

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are computing systems vaguely inspired by the biological neural networks that constitute animal brains.. An ANN is based on a collection of connected units or nodes called artificial neurons, which loosely model the neurons in a biological brain. Each connection, like the synapses in a biological brain, can ...

## **Artificial neural**

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**network - Wikipedia**

neural networks Jürgen

Mey 1, Dirk Scherler<sup>2</sup>,

Gerold Zeilinger , and

Manfred R. Strecker<sup>1</sup>

<sup>1</sup>Institut für Erd- und

Umweltwissenschaften,

Universität Potsdam,

Potsdam, Germany,

<sup>2</sup>German Research

Centre for

Geosciences, Potsdam,

Germany Abstract

Thick sedimentary fills

in intermontane valleys

are common in

formerly glaciated

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**Originally published  
as - [gfz-potsdam.de](http://gfz-potsdam.de)**

This paper focuses on the design and validation of an analog artificial neural network. Basic building blocks of the analog ANN have been constructed in UMC 90 nm device technology. Performance metrics of the building blocks have been demonstrated through



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circuit simulations. The weights of the ANN have been estimated through an automated back-propagation algorithm, which is running circuit ...

### **Design and validation of an artificial neural network ...**

University of Potsdam  
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Data Science. 2019 -  
Heute. Data Science  
Machine Learning Deep

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Learning Statistical  
Data Analysis .. Face  
Mask Detection using  
Artificial Neural  
Networks Juni 2020 -  
Aug. 2020. We used  
Artificial Neural  
Networks to detect  
Face Masks on people's  
faces. Projekt  
anzeigen. Sprachen.  
English.

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