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## Learning Machine Translation Neural Information Processing Series

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### **Learning Machine Translation Neural Information**

The book then presents new or improved statistical Machine Translation techniques, including a

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## Learning Machine Translation Neural Information Processing Series

discriminative training framework for leveraging syntactic information, the use of semi-supervised and kernel-based learning methods, and the combination of multiple Machine Translation outputs in order to improve overall translation quality.

### **Learning Machine Translation (Neural Information ...**

Transfer learning is a

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# Learning Machine Translation Neural Information Processing Series

common method for low-resource neural machine translation (NMT) (Zoph et al.,2016;Dabre et al.,2017;Qi et al.,2018; Nguyen and Chiang,2017;Gu et al.,2018b). How-ever, it is unclear what settings make transfer learning successful and what knowledge is being trans-ferred. Understanding why transfer learning is success-

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**In Neural Machine  
Translation, What  
Does Transfer  
Learning ...**

Neural machine translation (NMT) is not a drastic step beyond what has been traditionally done in statistical machine translation (SMT). Its main departure is the use of vector representations ("embeddings", "continuous space

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representations") for words and internal states. The structure of the models is simpler than phrase-based models.

**Neural machine translation - Wikipedia**

learning machine translation neural information processing series Sep 04, 2020  
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sequences in this  
paper we present a  
general end to end  
approach to sequence  
learning that makes  
minimal assumptions  
on the sequence  
structure our method  
uses neural

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Neural machine translation, or NMT for short, is the use of neural network models to learn a statistical model for machine translation. The key benefit to the approach is that a single system can be trained directly on source and target text, no longer requiring the pipeline

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of specialized systems  
used in statistical  
machine learning.  
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**A Gentle  
Introduction to  
Neural Machine  
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sequential data such as

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natural language for  
tasks such as  
translation and text  
summarization  
sequence to sequence  
learning with neural  
networks ilya sutskever  
google

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In recent years, neural  
models have led to  
state-of-the-art results  
in machine translation

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(MT) (Bahdanau et al.,

2015; Sutskever et al.,

2014). Many of these

systems can broadly

be character-ized as

following a multi-layer

encoder-decoder

neural network design:

both the encoder and

de-coder learn

representations of

word sequences by

**Shallow-to-Deep**

**Training for Neural**

**Machine Translation**

Machine translation is

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one of the biggest applications of NLP. Learn about neural machine translation and its implementation in Python using keras.

## **Neural Machine Translation | Machine Translation in NLP**

Abstract: Conventional Neural Machine Translation (NMT) models benefit from the training with an additional agent, e.g.,

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dual learning, and bidirectional decoding with one agent decoding from left to right and the other decoding in the opposite direction. In this paper, we extend the training framework to the multi-agent scenario by introducing diverse agents in an interactive updating process.

**Multi-agent Learning  
for Neural Machine**

*Page 16/27*

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# Learning Machine Translation Neural **Translation**

Google Neural Machine Translation is a neural machine translation system developed by Google and introduced in November 2016, that uses an artificial neural network to increase fluency and accuracy in Google Translate. GNMT improves on the quality of translation by applying an example-based machine translation method in

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which the system "learns from millions of examples". GNMT's proposed architecture of system learning was first tested on over a hundred languages supported by Google Translate. W

## **Google Neural Machine Translation - Wikipedia**

Neural Machine Translation. The neural approach uses neural networks to achieve

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machine translation.

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Compared to the  
previous models, NMTs  
can be built with one  
network instead of a  
pipeline of separate  
tasks. In 2014,  
sequence-to-sequence  
models were  
introduced opening  
new possibilities for  
neural networks in NLP.

**Machine Translation:  
A Short Overview |  
by Gergely D ...**  
Neural Machine

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# Learning Machine Translation Neural Information Processing Series

Translation is a machine translation approach that applies a large artificial neural network toward predicting the likelihood of a sequence of words, often in the form of whole sentences.

## **Neural Machine Translation**

### **Definition | DeepAI**

Neural machine translation (NMT) uses an artificially produced

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neural network. This  
deep learning  
technique, when  
translating, looks at full  
sentences, not only  
just individual words.

## **Machine Learning for Translation: What's the State of the ...**

by far the best result  
achieved by direct  
translation with large  
neural networks. For  
comparison, the BLEU  
score of a SMT baseline

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on this dataset is 33.30 [29]. The 34.81 BLEU score was achieved by an LSTM with a vocabulary of 80k words, so the score was penalized whenever the reference translation contained a word not covered by these 80k.

**Sequence to  
Sequence Learning  
with Neural  
Networks**

While neural machine

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# Learning Machine Translation Neural Information Series Processing Series

translation (NMT) is making good progress in the past two years, tens of millions of bilingual sentence pairs are needed for its training. However, human labeling is very costly. To tackle this training data bottleneck, we develop a dual-learning mechanism, which can enable an NMT system to automatically learn from unlabeled data through a dual-learning

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game.

Information

**Dual Learning for  
Machine Translation  
- Microsoft Research**

Modeling anaphora resolution is critical for proper pronoun translation in neural machine translation. Recently it has been addressed by context-aware models with varying success. In this work, we propose a carefully designed training curriculum

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that facilitates better  
anaphora resolu- tion  
in context-aware NMT.

## **Improving Anaphora Resolution in Neural Machine ...**

The current project is  
to with Neural Machine  
Translation (NMT). The  
proposed model is  
based. on the basic  
transformer  
architecture. The  
research direction  
inspired by previous  
work in NMT. capsule

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networks which is to  
apply a dynamic  
aggregation layer. The  
other research  
direction is.

**Computer vision  
Neural Machine  
Translation (NMT)  
related ...**

Network-based  
machine learning in  
colorectal and bladder  
organoid models  
predicts anti-cancer  
drug efficacy in  
patients. Nature

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