

## Learning Machine Translation Neural Information Processing Series

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Transfer learning is a 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-

[In Neural Machine Translation, What Does Transfer Learning](#)

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 of specialized systems used in statistical machine learning.

[A Gentle Introduction to Neural Machine Translation](#)

Neural machine translation (NMT) uses an artificially produced neural network. This deep learning technique, when translating, looks at full sentences, not only just individual words. Neural...

[Machine Learning for Translation - What's the State of the](#)

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

[Neural machine translation - Wikipedia](#)

Let's circle back to where we left off in the introduction section, i.e., learning German. However, this time around I am going to make my machine do this task. The objective is to convert a German sentence to its English counterpart using a Neural Machine Translation (NMT) system.

[Neural Machine Translation | Machine Translation in NLP](#)

Title: Multi-agent Learning for Neural Machine Translation. Multi-agent Learning for Neural Machine Translation. Authors: Tianchi Bi, Hao Xiong, Zhongjun He, Hua Wu, Haifeng Wang. (Submitted on 3 Sep 2019) Abstract: Conventional Neural Machine Translation (NMT) models benefit from the training with an additional agent, e.g., dual learning, and bidirectional decoding with one agent decoding from left to right and the other decoding in the opposite direction.

[Multi-agent Learning for Neural Machine Translation](#)

information processing and to neural machine 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

[Learning Machine Translation Neural Information Processing](#)

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 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](#)

Dual Learning for Machine Translation. While neural machine 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 game.

[Dual Learning for Machine Translation - Microsoft Research](#)

While neural machine translation (NMT) has achieved remarkable success, NMT systems are prone to make word omission errors. In this work, we propose a contrastive learning approach to reducing word omission errors in NMT. The basic idea is to enable the NMT model to assign a higher probability to a ground-truth translation and a lower probability to an erroneous translation, which is au-

[Reducing Word Omission Errors in Neural Machine](#)

Sep 05, 2020 learning machine translation neural information processing series Posted By Evan Hunter Ltd TEXT ID 1654f6c2 Online PDF Ebook Epub Library Neural Machine Translation By Jointly Learning To Align

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Learning a Multi-Domain Curriculum for Neural Machine Translation Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell, Zarana Parekh Most data selection research in machine translation focuses on improving a single domain. We perform data selection for multiple domains at once.

[Learning a Multi-Domain Curriculum for Neural Machine](#)

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The key challenges for such a human-in-the-loop machine learning problem are to find 1) suitable human-machine interaction paradigms, and 2) methods for sample-efficient machine learning. In this talk, I will present reinforcement learning algorithms for machine translation that learn from human feedback of various types, their application in real-life, and I will discuss how