

Jean-Benoit Delbrouck

Born on November 6th, 1990, Belgium
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- EDUCATION**
- Stanford University**, Palo Alto CA, United-States
Postdoctoral researcher
- Mons Polytechnique**, Mons, Belgium
Doctor of Philosophy, Engineering science, June 2020
- Lille 1 University**, Lille, France
Master of Science, Computer Science, June 2016 Grade: Distinction
- Dublin Institute of Technology**, Dublin, Ireland
Bachelor of Science, Computer Science, June 2014 Grade: Distinction
- THESIS**
- Doctoral Thesis:** Grounding and pragmatics for human-robot interaction
Supervised by Professor Thierry Dutoit and Stephane Dupont.
- Master Thesis:** Deep learning for neural machine translation
Conducted during an internship at INRIA Lille. Supervised by Olivier Pietquin, now at Google Brain.
- Internship Thesis:** Reinforcement learning in stochastic games
Conducted at INRIA Lille. Supervised by Julien Perolat, now at Google Deepmind.
- TEACHING**
- Mons Polytechnique**, Mons, Belgium
Signal Processing, Electrical engineering, 2017-2020
- Haute Ecole Leonard de vinci**, Brussels, Belgium
Artificial Intelligence, Computer Science, 2020
Algorithm, Data structure, Computer Science, 2017-2019
SQL, Computer Science, 2017
<https://jbdel.github.io/teaching/>
- SUPERVISOR**
- Mons Polytechnique**, Mons, Belgium
Robin Jacob, Dense annotations for image captioning (MA2), 2019
Arnaud Vella, Adversarial training for visual question answering (MA2), 2019
Bastien Vanderplaetse, Can adversarial networks learn image captioning without pre-training (MA2), 2019
Michael Rombaux, Learn to collaborate with adversarial training (MA2), 2019
Jason Bury, Reinforcement Learning in Games (MA2), 2017
Arnaud Vella, Automatic image captioning using AI (MA1), 2017
- Haute Ecole Leonard de vinci**, Brussels, Belgium
Invited Jury Member, 2017-2019
President of the Jury, 2019
- PUBLICATIONS** As first author:
- **An empirical study on the effectiveness of images in Multimodal Neural Machine Translation**
Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing
 - **Modulated Fusion using Transformer for Linguistic-Acoustic Emotion Recognition**

Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing

- **A Transformer-based joint-encoding for Emotion Recognition and Sentiment Analysis**
Proceedings of Second Grand Challenge and Workshop on Human Multimodal Language (Challenge-HML) - ACL 2020 **Best paper award**
- **Modulating and attending the source image during encoding improves Multimodal Translation**
ViGiL, NIPS 2017 Workshop
- **Object-oriented Targets for Visual Navigation using Rich Semantic Representations**
ViGiL, NeurIPS 2018 Workshop
- **Modulated Self-attention Convolutional Network for VQA**
NeurIPS 2019
- **UMONS Submission for WMT18 Multimodal Translation Task**
Proceedings of the Third Conference on Machine Translation, 2018 **Challenge winner**
- **Visually Grounded Word Embeddings and Richer Visual Features for Improving Multimodal Neural Machine Translation**
Proc. of the Grounded Language Understanding 2017
- **Multimodal Compact Bilinear Pooling for Multimodal Neural Machine Translation**
arXiv, 2017

Languages

French, English, Dutch, Romanian