



jonasdegrave

PHD Researcher

contact

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languages

Dutch

mother tongue

English

near-native fluency

French

professional fluency

German, Chinese

elementary

programming

♥ Python, Java, Shell, C
XP PHP, Javascript,
C++, C#, TeX, ASM,
Redcode, Ruby, Lua,
SQL, Delphi & Basic

platforms

Linux, Apache,
PostgreSQL, Drupal,
Django, CSS3, HTML5,
jQuery, MpLab X

publications

article in peer-reviewed journal

Transfer learning of gaits on a quadrupedal robot

Jonas Degrave, Michaël Burm, Pieter-Jan Kindermans, Joni Dambre, Francis Wyffels
Adaptive Behavior. Sage, 2015

international peer-reviewed conferences/proceedings

Terrain classification for a quadruped robot

Jonas Degrave, Robin Van Cauwenbergh, Francis Wyffels, Tim Waegeman, Benjamin Schrauwen
International Conference on Machine Learning and Applications, Proceedings, 2013, Miami, Florida, USA

Comparing trotting and turning strategies on the quadrupedal *Oncilla* Robot

Jonas Degrave, Michaël Burm, Tim Waegeman, Francis Wyffels, Benjamin Schrauwen
IEEE International Conference on Robotics and Biomimetics, Proceedings, 2013, Shenzhen, China

UGent AMARSi progress

Ken Caluwaerts, Jonas Degrave, Tim Waegeman, Francis Wyffels, Benjamin Schrauwen
AMARSi, Abstracts, 2013, Ghent, Belgium

Applying morphological changes during the evolution of quadruped robots results in robust gaits

Jonas Degrave, Francis Wyffels, Tim Waegeman, Pieter-Jan Kindermans, Benjamin Schrauwen
Proceedings of the 21st Belgian-Dutch Conference on Machine Learning, 2012, Ghent, Belgium

awards

2015

Kaggle's National Data Science Bowl

Oregon State University, USA

Awarded \$100 000 for developing the best algorithm to classify images of plankton.

2009

Marianne De Leenheer Prize

Ghent University, Belgium

Awarded € 1 250 to promote creativity in math, for solving the Blacksburg Middle School problem.

2007

First prize Geography Derby of the Low Countries

Texel, Netherlands

First Prize on the written test in a competition between the best geography students in Flanders and the Netherlands

2005–2007

7 times finalist in science Olympiads Flanders

Brussels, Belgium

Finished 7 times among the top 15 students for the Olympiads in math, chemistry, physics and geography.

education

- 2010–2012 **Masters of Science** in Electrical Engineering Ghent University, Belgium
With a specialization in information and communication technology and a focus on media and machine learning. I graduated on exploring whether a robot learns to run faster when its morphology changes from easy to hard during the learning process.
- 2011 **Masters of Science** in Informatics Institut polytechnique de Grenoble, France
Erasmus experience in order to further specialize in graphics, vision and robotics
- 2007–2010 **Bachelor of Science** in Electrical Engineering Ghent University, Belgium
Specialization in communication technology

experience

- 2014–Now **Agency for Innovation by Science and Technology in Flanders** Ghent University, Belgium
Phd researcher
Developing stable gaits for quadrupedal robots and researching the extent to which you can use the morphology of the robot in order to compute the desired motor signals.
- 2012–2013 **AMARSi, European Community's FP7** Ghent University, Belgium
Phd researcher
Developing, testing and debugging both hardware, firmware and software of the compliant quadrupedal robot, 'Oncilla'.

interests

professional: robotics, machine learning, transfer learning, deep learning, media processing, data mining, software development
personal: politics, cooking, board games, producing music, running