

Paulo Eduardo Rauber

Switzerland, 2019
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Main interests

Machine learning, reinforcement learning, recurrent neural networks.

Background

- 2017–(2021) **Postdoctoral researcher**, *Dalle Molle Institute for AI Research (IDSIA, Switzerland)*.
Supervisor: Jürgen Schmidhuber.
- 2012–2017 **PhD in Computer Science**, *Joint degree at University of Campinas (Brazil) and University of Groningen (Netherlands)*.
Supervisors: A.X. Falcão, A.C. Telea, P.J. de Rezende, and J.B.T.M. Roerdink.
Admitted in first place to MSc at Unicamp and consequently invited to PhD.
- 2008–2011 **BSc in Computer Science**, *Federal University of Santa Catarina (Brazil)*.
More than three standard deviations above the mean on national graduate school admission exam.

Selected papers

- 2019 P. Rauber, A. Ummadisingu, F. Mutz, and J. Schmidhuber, "*Hindsight policy gradients*", International Conference on Learning Representations (ICLR).
- 2017 P. E. Rauber, S. G. Fadel, A. X. Falcão, and A. C. Telea, "*Visualizing the Hidden Activity of Artificial Neural Networks*", IEEE Transactions on Visualization and Computer Graphics (TVCG, Proceedings of Visual Analytics Science and Technology 2016).
- 2017 J.F. Kruiger, P. E. Rauber, R. M. Martins, A. Kerren, S. Kobourov, and A. C. Telea, "*Graph Layouts by t-SNE*", Computer Graphics Forum (CGF, Proceedings of EuroVis 2017).
- 2016 P. E. Rauber, A. X. Falcão, and A. C. Telea, "*Visualizing Time-Dependent Data Using Dynamic t-SNE*", EuroVis Short Papers 2016. **Honorable mention.**
- 2013 P. E. Rauber, A. X. Falcão, T. V. Spina, and P. J. de Rezende, "*Interactive Segmentation by Image Foresting Transform on Superpixel Graphs*", SIBGRAPI 2013.

Teaching

- 2017, 2018 *Deep learning lab*: introduction to deep learning using TensorFlow.

Supervision

- 2018 A. Ummadisingu, "*Improving Sample Efficiency in Hindsight Policy Gradients*", MSc thesis, University of Italian Switzerland, 2018. Supervisors: J. Schmidhuber and P. Rauber.
- 2016 J.F. Kruiger, "*Graph Layouts by t-Distributed Stochastic Neighbor Embedding*", MSc thesis, University of Groningen, 2016. Supervisors: A.C. Telea and P.E. Rauber.
- 2015 S. Feringa, "*Comparison of Features Used in Automatic Skin Lesion Classification*", MSc thesis, University of Groningen, 2015. Supervisors: A.C. Telea and M.H.F. Wilkinson. Advisor: P.E. Rauber.

Skills

- Languages Portuguese and English.
- Programming Python (NumPy, TensorFlow) and C++ on GNU/Linux.

Personal

- Born 1989, Brazil.