Curriculum Vitae

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https://aabbtree77.github.io/
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1 Education

B.Sc. (Electrical Engineering), 1999, Vilnius Gediminas Technical University.
M.Sc. (Tech.), 2001, D.Sc. (Tech.), 2008, Helsinki University of Technology.

2 Employment

01.02.2014–Now:	Self-employed.
01.02.2013–31.01.2014:	Faculty of Informatics at the University of Lugano, Via Giuseppe Buffi 13, CH-6904 Lugano, Switzerland.
01.09.2011–31.12.2012:	DEMO, École Nationale Supérieure des Mines de Saint-Étienne, 158 cours Fauriel, 42023 Saint-Étienne, CEDEX2, France.
01.09.2008–31.08.2009:	Department of Neurobiology at the University of California, Los Angeles, 73-235 CHS, Los Angeles, CA 90095-1763.
01.05.2000–31.07.2008:	Faculty of Information and Natural Sciences at Helsinki University of Technology, P.O.Box 5400 (Konemiehentie 2), FI-02015, Finland.

3 Publications

1. D. Boscaini, R. Girdziušas, and M. M. Bronstein. Coulomb shapes: using electrostatic forces for deformation-invariant shape representation. In *Eurographics W. 3D Object Retrieval*, 2014. https://diglib.eg.org/handle/10.2312/3dor.20141044.009-015.

2. R. Girdziušas, J. Janusevskis, and R. Le Riche. On integration of multi-point improvements. In *NIPS W. Bayesian Opt. Dec. Making*, 2012. http://www.emse.fr/~leriche/integ_multiEI_nips2012_final.pdf.

3. R. Le Riche, R. Girdziušas, and J. Janusevskis. A study of asynchronous budgeted optimization. In *NIPS W. Bayesian Opt. Dec. Making*, 2012. http://www.emse.fr/~leriche/synchro_asynchro_final.pdf.

4. R. Girdziušas, R. Le Riche, F. Viale, and D. Ginsbourger. Parallel budgeted optimization applied to the design of an air duct. 2012. http://hal.archives-ouvertes.fr/hal-00723427.

5. R. Le Riche, R. Girdziušas, D. Villanueva, G. Picard, and D. Ginsbourger. Squaring the engineering optimization circle: Distributed global optimization algorithms for computationally expensive problems. 2012. http://www.emse.fr/~leriche/rio2012_LeRiche.pdf.

6. J. Janusevskis, R. Le Riche, D. Ginsbourger, and R. Girdziušas. Expected improvements for the asynchronous parallel global optimization of expensive functions: Potentials and challenges. In *LNCS*, volume 7219, pages 413–418, 2012.

7. R. Girdziušas and D. Ringach. The Jacobian singularity in the Thomson problem. Unpublished. 2009. http://aabbtree77.github.io/pdfs/ucla2009.pdf.

8. R. Girdziušas. Stability and inference in discrete diffusion scale-spaces. DSc (PhD) thesis, 2008. https://aaltodoc.aalto.fi/handle/123456789/2999. Advisors: E. Oja and J. Laaksonen (Helsinki Univ. of Tech.). External examiners: S. Siltanen (Tampere Univ. of Tech.) and K. Ruotsalainen (Univ. of Oulu). Opponents: S. Siltanen and A. Gotchev (Tampere Univ. of Tech.).

9. R. Girdziušas and J. Laaksonen. When is a discrete diffusion a scale-space? In *ICCV*, 2007. http://dx.doi.org/10.1109/ICCV.2007.4408895.

10. R. Girdziušas and J. Laaksonen. How marginal likelihood inference unifies entropy, correlation and SNR-based stopping in nonlinear diffusion scale-spaces. In *LNCS*, volume 4843, pages 811–820, 2007.

11. R. Girdziušas and J. Laaksonen. Jacobi alternative to Bayesian evidence maximization. In *LNCS*, volume 3697, pages 247–252, 2005.

12. R. Girdziušas and J. Laaksonen. Use of input deformations with Brownian motion. In *LNCS*, volume 3686, pages 219–228, 2005.

13. R. Girdziušas and J. Laaksonen. Optimal stopping and constraints for diffusion models of signals with discontinuities. In *LNAI*, volume 3720, pages 576–583, 2005.

14. R. Girdziušas and J. Laaksonen. Optimal ratio of Lamé moduli with application to motion of Jupiter storms. In *LNCS*, volume 3540, pages 1096–1106, 2005.

15. R. Girdziušas and J. Laaksonen. Gaussian processes of nonlinear diffusion filtering. In *IJCNN*, pages 1012–1017, 2005. http://dx.doi.org/10.1109/IJCNN.2005.1555991.

16. R. Girdziušas and J. Laaksonen. Gaussian process regression with fluid hyperpriors. In *LNCS*, volume 3316, pages 567–572, 2004.

17. M. Aksela, R. Girdziušas, J. Laaksonen, E. Oja, and J. Kangas. Methods for adaptive combination of classifiers. *IJDAR*, 6(1):23–41, 2003.

18. M. Aksela, R. Girdziušas, J. Laaksonen, E. Oja, and J. Kangas. Class-confidence critic combining. In *IWFHR*, pages 201–206, 2002. http://dx.doi.org/10.1109/IWFHR.2002.1030909.

19. R. Girdziušas. Discriminative online recognition of isolated handwritten characters. MSc thesis. Helsinki Univ. of Tech. 2001.

20. R. Girdziušas and J. Laaksonen. Multilayer perceptron approach to non-rigid image matching. In *ICONIP*, volume 1, pages 491–496, 2001.

4 Talks

- Presentations: ICONIP 2001, 2004; ICAPR 2005; ICANN 2005; OMD2 meetings (Paris 2011, 2012).

- Posters: SCIA 2005; IJCNN 2005; ECML 2005; ICCV 2007; ACCV 2007.

- Invited talk at the DIKU group, the University of Copenhagen, 2008.

5 Awards

01.09.1999–01.06.2000:	Nokia scholarship (Natalia Kantola, Robertas Tamulevičius).
01.01.2002–01.07.2006:	ComMIT grant (postgraduate studies).
09.11.2005–09.15.2005:	ICANN travel grant.
07.01.2006–12.01.2006:	HUT scholarship.
01.22.2008–01.24.2008:	Travel grant (Prof. Mads Nielsen).
04.03.2008:	Doctoral thesis award: "Pass with Distinction".

6   Recommendation Letters

- Prof. Erkki Oja, Konemiehentie 2, P.O. Box 5400, 02015 HUT, Finland.
  Email: Erkki.Oja@hut.fi, phone: +358-9-451 3265, fax: +358 9 451 3277.

- Doc. Jorma Laaksonen, Konemiehentie 2, P.O. Box 5400, 02015 HUT, Finland.
  Email: Jorma.Laaksonen@hut.fi, phone: +358-9-451 3269, fax: +358 9 451 3277.

- Prof. Dario Ringach, Dep. of Neurobiology, UCLA, Los Angeles, CA 90095-1563.
  Email: dario@ucla.edu, phone: +310 825 6606.

- Doc. Rodolphe Le Riche, DEMO, 158 cours Fauriel, 42023 Saint-Étienne, CEDEX 2.
  Email: leriche@emse.fr, phone: +336 31 262 678.

- Assist. Prof. Michael M. Bronstein, SI-109, Via Giuseppe Buffi 13, 6904, Lugano, Switzerland.
  Email: michael.bronstein@usi.ch, phone: +41 58 666 4120.

7   Code

C, avr-gcc:	https://github.com/aabbtree77/adast
	https://github.com/aabbtree77/atmega8-ssd1306-ds18b20-dht22
	https://github.com/aabbtree77/digispark-attiny85-command-line
C++11:	https://github.com/aabbtree77/premaxwell
Python:	https://github.com/aabbtree77/esp32-vpn
	https://github.com/aabbtree77/MNIST-0.17 (fork)
	https://github.com/aabbtree77/chateaudanet
OpenGL:	https://github.com/aabbtree77/twinpeekz
	https://github.com/aabbtree77/twinpeekz2
Web:	https://github.com/aabbtree77/law2
	https://github.com/aabbtree77/miniguestlog
	https://github.com/aabbtree77/cv
	https://github.com/aabbtree77/blog
	https://github.com/aabbtree77/auth-starter-frontend
	https://github.com/aabbtree77/auth-starter-backend

8   Selected Bug Fixes/Reports

CppWin2Linux:	https://github.com/Max1412/Graphics2/issues/24
uint vs uint32:	https://github.com/go-gl/gl/issues/128
Screen Tearing:	https://github.com/godlikepanos/anki-3d-engine/issues/59
Deep Copying:	https://github.com/polydojo/jispy/issues/1
Wine vs dxvk:	https://github.com/doitsujin/dxvk/issues/3789
The K155 Clock:	https://github.com/aabbtree77/mona-lisa

9   Additional Parameters

Date of birth:	30.12.1977 (Gen X, He/Him).
Citizenship:	Lithuanian (Lithuania, European Union).
Languages:	English (7/10), Russian (8/10), Lithuanian (9/10).
Driver's licence:	B (U.S.-only experience, 2008-2009).
Max Elo:	2318 (Blitz on lichess.org, 28.03.2024).
Erdös number:	5 (P. Erdös–B. Bollobas–H. Mannila–E. Bingham–E. Oja).
	4 (P. Erdös–A. M. Odlyzko–L. J. Guibas–M. M. Bronstein).