

Curriculum Vitae

Ramūnas Girdziušas
Laisvės pr. 67-54, Vilnius, LT-07189
aabbtree77[at]gmail.com
aabbtree77.github.io/
aabbtree77.github.io/cv/

1 Education

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| 1995-1999 | B.Sc. (Electrical Engineering), Vilnius Gediminas Technical University. |
| 1999-2008 | M.Sc. (Tech.), D.Sc. (Tech.), Helsinki University of Technology. |

2 Employment

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| 01.02.2014-Now | Self-Funded. |
| 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 (2014). "Coulomb shapes: using electrostatic forces for deformation-invariant shape representation." *Eurographics W. 3D Object Retrieval*. diglib.eg.org/handle/10.2312/3dor.20141044.009-015.

2. R. Girdziušas, J. Janusevskis, and R. Le Riche (2012). "On integration of multi-point improvements." *NIPS W. Bayesian Opt. Dec. Making*. www.emse.fr/~leriche/integ_multiEI_nips2012_final.pdf.
3. R. Le Riche, R. Girdziušas, and J. Janusevskis (2012). "A Study of Asynchronous Budgeted Optimization." *NIPS W. Bayesian Opt. Dec. Making*. www.emse.fr/~leriche/synchro_asynchro_final.pdf.
4. R. Girdziušas, R. Le Riche, et al. (2012). "Parallel Budgeted Optimization Applied to the Design of an Air Duct." hal.archives-ouvertes.fr/hal-00723427.
5. R. Le Riche, R. Girdziušas, D. Villanueva, et al. (2012). "Squaring the engineering optimization circle: Distributed global optimization algorithms for computationally expensive problems." www.emse.fr/~leriche/rio2012_LeRiche.pdf.
6. J. Janusevskis et al. (2012). "Expected Improvements for the Asynchronous Parallel Global Optimization of Expensive Functions: Potentials and Challenges." *LNCS*. vol. 7219, pp. 413–418.
7. R. Girdziušas and D. Ringach (2009). "The Jacobian Singularity in the Thomson Problem. Unpublished." aabbtree77.github.io/pdfs/ucla2009.pdf.
8. R. Girdziušas (2008). "Stability and Inference in Discrete Diffusion Scale-Spaces. DSc (PhD) thesis, 2008." 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 (2007b). "When Is a Discrete Diffusion a Scale-Space?" *ICCV*. dx.doi.org/10.1109/ICCV.2007.4408895.
10. R. Girdziušas and J. Laaksonen (2007a). "How Marginal Likelihood Inference Unifies Entropy, Correlation and SNR-based Stopping in Nonlinear Diffusion Scale-Spaces." *LNCS*. vol. 4843, pp. 811–820.
11. R. Girdziušas and J. Laaksonen (2005b). "Jacobi Alternative to Bayesian Evidence Maximization." *LNCS*. vol. 3697, pp. 247–252.

12. R. Girdziušas and J. Laaksonen (2005e). "Use of Input Deformations with Brownian Motion." *LNCS*. vol. 3686, pp. 219–228.
13. R. Girdziušas and J. Laaksonen (2005d). "Optimal Stopping and Constraints for Diffusion Models of Signals with Discontinuities." *LNAI*. vol. 3720, pp. 576–583.
14. R. Girdziušas and J. Laaksonen (2005c). "Optimal Ratio of Lamé Moduli with Application to Motion of Jupiter Storms." *LNCS*. vol. 3540, pp. 1096–1106.
15. R. Girdziušas and J. Laaksonen (2005a). "Gaussian Processes of Nonlinear Diffusion Filtering." *IJCNN*, pp. 1012–1017. [dx . doi . org / 10 . 1109 / IJCNN . 2005 . 1555991](https://doi.org/10.1109/IJCNN.2005.1555991).
16. R. Girdziušas and J. Laaksonen (2004). "Gaussian Process Regression with Fluid Hyperpriors." *LNCS*. vol. 3316, pp. 567–572.
17. M. Aksela et al. (2003). "Methods for Adaptive Combination of Classifiers." *IJDAR* vol. 6.1, pp. 23–41.
18. M. Aksela et al. (2002). "Class-Confidence Critic Combining." *IWFHR*, pp. 201–206. [dx . doi . org / 10 . 1109 / IWFHR . 2002 . 1030909](https://doi.org/10.1109/IWFHR.2002.1030909).
19. R. Girdziušas (2001). "Discriminative Online Recognition of Isolated Handwritten Characters. MSc thesis. Helsinki Univ. of Tech."
20. R. Girdziušas and J. Laaksonen (2001). "Multilayer Perceptron Approach to Non-Rigid Image Matching." *ICONIP*. vol. 1, pp. 491–496.

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.
- 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	github.com/aabbtree77/adast github.com/aabbtree77/atmega8-ssd1306-ds18b20-dht22 github.com/aabbtree77/digispark-attiny85-command-line
Go, Python	github.com/aabbtree77/esp32-vpn github.com/aabbtree77/MNIST-0.17 (fork)
Go, Nim, cpp11	github.com/aabbtree77/twinpeekz github.com/aabbtree77/twinpeekz2 github.com/aabbtree77/premaxwell
MERN	github.com/aabbtree77/law2 github.com/aabbtree77/miniguestlog github.com/aabbtree77/cv github.com/aabbtree77/auth-starter-frontend github.com/aabbtree77/auth-starter-backend
SQLite	github.com/aabbtree77/imdb-sqlite-queries
LaTeX	github.com/aabbtree77/rgresume

8 Bug Fixes

Cross-Compilation	github.com/Max1412/Graphics2/issues/24
OpenGL	github.com/go-gl/gl/issues/128
Screen Tearing	github.com/godlikepanos/anki-3d-engine/issues/59
Deep Copying	github.com/polydojo/jispy/issues/1
Wine vs dxvk	github.com/doitsujin/dxvk/issues/3789

9 Blog Articles

Château d'Anet	github.com/aabbtree77/chateaudanet
K155 Hardware	github.com/aabbtree77/K155-clock
IP Motion Cam	github.com/aabbtree77/surveillance
Conversion Rates	github.com/aabbtree77/uci-marketing-analysis-cart
Tensor algebra	aabbtree77.github.io/tensors/

10 Additional Information

Date of birth	30.12.1977 (Gen X, He/Him).
Citizenship	Lithuanian (Lithuania, European Union).
Languages	French (2/10), English (7/10), Russian (8/10), Lithuanian (9/10).
Driver's licence	B.
Chess	2318 (lichess.org/@/hyperboloid777/perf/blitz).
Karate	Kyokushin 2nd belt (Vilnius, 1993).
Erdős number	5 (P. Erdős--B. Bollobas--H. Mannila--E. Bingham--E. Oja). 4 (P. Erdős--A. M. Odlyzko--L. J. Guibas--M. M. Bronstein).
Favorite Bits	The Cold Heart (1827), Бесы (1872), The Last Leaf (1905), Balta drobulė (1954), Le jouet (1976), Девочка и дельфин (1979), Twin Peaks (1991) - visited Snoqualmie Falls IRL 2009, Marie Baie des Anges (1997), Модифицированная теория симметрии тензоров и тензорных инвариантов (2003), INSIDE (2016), Let's Build A Simple Interpreter (2020)...