ANTON ISOPOUSSU

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EXPERIENCE

Nokia Bell Labs 2018-
Senior Researcher

- Research in machine learning, mobile and wearable systems, sensing
- Consulting on deep learning projects
- 3 conference papers, 2 workshop papers, 1 journal paper
- 4 patent filings in areas of machine learning, wireless communications and sensing

Nokia Technologies 2016-2018
Senior Engineer

- Research in machine learning, optimisation, efficient sampling algorithms, hardware for inference
- Consulting on deep learning projects
- 7 patent filings in areas of machine learning, distributed computing, computer vision

Stacky Software Solutions 2015-
Software Consultant

- Decompression modeling algorithms and software for Lungfish Dive Systems

EDUCATION

University of Cambridge
PhD in Mathematics (Algebraic Geometry) *2010 - 2015*
Master of Advanced Study *2009 - 2010*
Department of Mathematics and Mathematical Statistics

Aalto University (Finland)
Master of Science in Technology (Mathematics) *2008-2009*
Bachelor of Science (Mathematics and Physics) *2006-2008*
Department of Mathematics and Operations Research

SKILLS

Frameworks	TensorFlow, Edward, Tensorflow Probability, SageMath
Languages	Python, C++, C
Devices	SIMD, MCU programming, Xilinx Vivado HLS, Sensor Networks

PAPERS AND PUBLICATIONS

1. A. Mathur, A. Isopoussu, F. Kawsar, N. Berthouze, and N. D. Lane. Mic2Mic: using cycle-consistent generative adversarial networks to overcome microphone variability in speech systems. In *Proceedings of the 18th International Conference on Information Processing in Sensor Networks*, pages 169–180. ACM, 2019.

2. M. Alloulah, A. Isopoussu, C. Min, and F. Kawsar. On tracking the physicality of Wi-Fi: A subspace approach. *IEEE Access*, 7:19965–19978, 2019.

3. A. Mathur, A. Isopoussu, F. Kawsar, R. Smith, N. D. Lane, and N. Berthouze. On robustness of cloud speech APIs: An early characterization. In *Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers*, pages 1409–1413. ACM, 2018.

4. M. Alloulah, A. Isopoussu, and F. Kawsar. On indoor human sensing using commodity radar. In *Proceedings of the 2018 ACM International Joint Conference and 2018 International Symposium on Pervasive and Ubiquitous Computing and Wearable Computers*, pages 1331–1336. ACM, 2018.

5. A. Isopoussu. Uniformisation theorem for flag varieties. 2015. Preprint.

6. A. Isopoussu. Tensor operations, convex bodies and K-stability. 2015. Preprint.

7. A. Isopoussu. Asymptotics of Schur polynomials of vector bundles and K-instability of flag bundles. 2014. Preprint.

8. A. Isopoussu. K-stability of relative flag varieties. *arXiv:1307.7638*, 2013. PhD Thesis.

9. A. Isopoussu, K. Peltonen, and J. T. Tyson. Quasiregular maps and the conductivity equation in the Heisenberg group. *Tradition*, pages 61–75, 2011.

10. S. Alanko, S. Crevals, A. Isopoussu, P. Östergård, and V. Pettersson. Computing the domination number of grid graphs. *The Electronic Journal of Combinatorics*, 18(1):141, 2011.

11. A. Mathur, A. Isopoussu, N. Berthouze, N. Lane, and F. Kawsar. Unsupervised domain adaptation for robust sensory systems. *CML-IoT, Ubicomp 2019*.

PUBLISHED PATENTS

Method, device and system for validating sensitive user data transactions, WO2018037148A1

Method and apparatus for blockchain verification of healthcare prescriptions, WO2018037148A1