Michal Valko

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- EXPERIENCE \diamond DeepMind, Paris, France, Senior Staff Research Scientist (2019 ...)
 - ♦ ENS Paris-Saclay Master 2 MVA, France, External Lecturer CEV (2014 ...)
 - ♦ Inria team SequeL, Lille, France, Research Scientist (2011 ...)
 - ♦ Intel Intel Labs (Summer 2010) and Intel Research (Spring 2009)

- EDUCATION \diamond École normale supérieure de Cachan, HdR in Mathematics, June 2016. Thesis: Bandits on Graphs and Structures, Advisor: Nicolas Vayatis
 - ♦ University of Pittsburgh (GPA 4.0) PhD in Machine Learning, August 2011.
 - Thesis: Adaptive Graph-Based Algorithms, Advisor: Milos Hauskrecht

SELECTED AWARDS

Inria award for scientific excellence: Prime d'excellence scientifique (2014-2017, 2018-2021)

Distinguished Alumni of Comenius University, Slovakia (2015)

Computer Science Department (2008 and 2011)

Andrew Mellon Predoctoral Fellowship (Fall 2008, Summer 2009)

Research Interests

machine learning, bandit theory, minimal feedback, online learning, sequential learning, graph-based methods, inverse reinforcement learning, semi-supervised learning

Selected PUBLICA-TIONS

- ♦ J.B. Grill, F. Strub, F. Altché, C. Tallec, P.H.. Richemond, E. Buchatskaya, C. Doersch, B.A. Pires, D. Guo, M.G. Azar, B. Piot, K. Kavukcuoglu, R. Munos, M. Valko: Bootstrap Your Own Latent: A new approach to self-supervised learning, (NeurIPS 2020)
- ⋄ Michał Dereziński*, Daniele Calandriello*, Michal Valko: Exact sampling of determinantal point processes with sublinear time preprocessing, (NeurIPS 2019)
- ♦ Daniele Calandriello, Alessandro Lazaric, M. Valko: Distributed adaptive sampling for kernel matrix approximation (AISTATS 2017)
- ♦ Jean-Bastien Grill, M. Valko, Rémi Munos: Blazing the trails before beating the path: Sample-efficient Monte-Carlo planning (NeurIPS 2016)
- ⋄ Tomáš Kocák, Gergely Neu, M. Valko, Rémi Munos: Efficient learning by implicit exploration in bandit problems with side observations, (NeurIPS 2014)
- M.Valko, Rémi Munos, Branislav Kveton, Tomáš Kocák: Spectral bandits for smooth graph functions (ICML 2014)

STUDENTS AND POSTDOCS

Edouard Oyallon (postdoc, 2018) Pierre Ménard (postdoc, 2019) Daniele Calandriello (2017), Omar Darwiche Domingues (2022), Côme Fiegel (2025), Guillaume Gautier (2020), Jean-Bastien Grill (2017), Tomáš Kocák (2016), Pierre Perrault (2020), Julien Seznec (2020), Jean Tarbouriech (2022), and Xuedong Shang (2021)

SERVICE ACTIVITIES

- ♦ Elected member of Inria Evaluation Committee (CE Inria 2014 2015, 2015 2019)
- ♦ Organizing Committee: JFPDA (2013), Research project reviewer: FNRS (2014 now)
- ♦ Area chair and senior program committee: NeurIPS (2018–2020), ICLR (2021), IJCAI (2017), Program Committee: COLT (2019), ICML (2018), AISTATS (2016–2017, 2019), AAAI (2012, 2015), IJCAI (2015), RLDM (2015), EWRL (2012, 2015–2016), JFPDA (2014)
- Reviewer: TPAMI (2017), JMLR (2016), Automatica (2016–2017), NeurIPS (2012–2017), ICLR (2019), ICML (2012–2016, 2019), COLT (2014, 2017–2018), ALT (2019), UAI (2011– 2012), IJCAI (2009), KDD (2011), AAAI (2009, 2014), ECML (2012), MEDINFO (2010)
- ⋄ INTEL/Inria Algorithmic Determination of IoT Edge Analytic 2013 (project leader)
- ♦ European FP7 grant (CompLACS), Chist-ERA (DELTA), ANR grants (BoB, ExtraLearn, BOLD), NIH grants

SKILLS & Hobbies

- ♦ Choir Singer Tenor IIa Cœli et Terra, Volunteering: Association la Clé & PASS Senior
- ♦ Sports: hiking, squash, racquetball, running, volleyball, swimming