**CURRICULUM VITAE**

**Name and Surname**: Tomáš Brázdil

**Personal Data** : Born April 7, 1979 in Brno, Czechoslovakia.

**ORCID ID**: 0000-0002-4547-3261

**Affiliation and Address**:

Faculty of informatics, Masaryk University

Botanická 68a

602 00 Brno

**Position held at the present time**:

Assoc. professor in computer science (Faculty of informatics, Masaryk University)

**Education and Academic Qualifications**:

* 2013: Assoc. professor in computer science (Faculty of informatics, Masaryk University)
* 2007: Ph.D. in computer science (Faculty of informatics, Masaryk University)

**Employment History**:

* 2005 - now: Faculty of informatics, Masaryk University   
  (2005 - 2012: researcher, 2013 - now: assoc. Prof)

**Scientific and Research Activities**:

* Biomedical data analysis using machine learning methods (especially image data).
* Explainable machine learning methods.

**H-INDEX**:

* 15 (WoS)

**Selected Publications**:

* Matej Gallo, Vojtěch Krajňanský, Rudolf Nenutil, Petr Holub and Tomáš Brázdil. Shedding light on the black box of a neural network used to detect prostate cancer in whole slide images by occlusion-based explainability. NEW BIOTECHNOLOGY. NETHERLANDS: ELSEVIER, 2023
* Petr Holub, Heimo Müller, Tomáš Bíl, Luca Pireddu, Markus Plass, Fabian Prasser, Irene Schlünder, Kurt Zatloukal, Rudolf Nenutil, Tomáš Brázdil. Privacy Risks of Whole-Slide Image Sharing in Digital Pathology. *Nature Communications 14 (2577)*, 2023
* Tomáš Brázdil, Matej Gallo, Rudolf Nenutil, Andrej Kubanda, Martin Toufar, Petr Holub: Automated annotations of epithelial cells and stroma in hematoxylin-eosin-stained whole-slide images using cytokeratin re-staining. J Pathol Clin Res. 2022; 8(2):129-142. (IF: 5.638)
* Tomáš Brázdil, Krishnendu Chatterjee, Petr Novotný, Jiří Vahala: Reinforcement Learning of Risk-Constrained Policies in Markov Decision Processes. AAAI 2020: 9794-9801
* Natasha Alechina, Tomáš Brázdil, Giuseppe De Giacomo, Paolo Felli, Brian Logan, Moshe Y. Vardi: Unbounded Orchestrations of Transducers for Manufacturing. AAAI 2019: 2646-2653

**Selected Research Projects**:

* BioMedAI Twinning; European Commission; Horizon Europe (Widening); 690,700 EUR (co-PI, 2022 - 2025)
* GA21-24711S: Efficient Analysis and Optimization for Probabilistic Systems and Games (team member, 2021)
* MUNI/G/0739/2017: Pushing the limits in automated NMR structure determination using a single 4D NOESY spectrum and machine learning methods (co-PI, 2018 – 2020)
* GBP202/12/G061, Center of Excellence - Institute for Theoretical Computer Science (team member, 2012-2018)
* GPP202/12/P612, Formal Verification of Stochastic Real-Time Systems (PI 2012 - 2014)

**Research and Academic Stays**:

* 2008-2009: Chair for Foundations of Software Reliability and Theoretical Computer Science, Faculty of Computer Science, Technische Universität München (14 months, AvH Fellowship)

**Research Awards and Prizes, Research Memberships**:

* 2023: MUNI Vice-rector's Award - MUNI Scientist
* 2022: MUNI Vice-rector's Award - MUNI Scientist
* 2013: MUNI Rector’s Award for Outstanding Research Results Achieved by Young Scientists under 35 in economics and informatics
* 2008: E. W. Beth Dissertation Prize
* 2008: Alexander von Humboldt Fellowship