Andreas Kriegler

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Summary

PhD student in Computer Vision at TU Wien. Employed and funded by the Austrian Institute of Technology.

Education

TU Wien   *Ongoing*
Dr. in Computer Science

University of Applied Sciences Technikum Vienna   *Sep 2018 to Oct 2020*
MSc. in Mechatronics/Robotics (with distinction)
- GPA: 1.58 (1.0-5.0, 1.0 is best)

University of Applied Sciences Technikum Vienna   *Sep 2015 to Jun 2018*
BSc. in Mechatronics/Robotics (with distinction)
- GPA: 1.73 (1.0-5.0, 1.0 is best)

University of Natural Resources and Life Sciences Vienna   *Oct 2014 to Jun 2015*
Civil Engineering   *(discontinued)*

Experience

PhD Student   *Ongoing*
AIT Austrian Institute of Technology
- Publications on generic 6D object pose estimation for robotic applications

University Research Assistant   *Ongoing*
TU Wien
- Reviews for international journals and conferences
- Guest lectures + teaching assistant

Data Scientist/Diploma Student   *Sep 2018 to Mar 2021*
AIT Austrian Institute of Technology
- Diploma Thesis on aerial automation
- Developing Machine-Learning based Object Detection frameworks for various applications

Software Developer (Intern)   *Düsseldorf, Germany*
SMS Group   *Aug 2017 to Jan 2018*
- First Bachelor Paper
- Developing system for slag slopping prediction for LD-converters in MATLAB

Call Center Agent   *Feb 2016 to Dec 2016*
Customer Care Solutions

Paramedic   *Dec 2013 to Aug 2014*
Vienna Red Cross

Publications

Review Paper: Body Movement Mirroring and Synchrony in Human-Robot Interaction   *Aug 2024*

Darja Stoeva, ***Andreas Kriegler***, Margrit Gelautz

10.1145/3682074 ↗ (ACM Transactions on Human-Robot Interaction (THRI))

PrimitivePose: Generic Model and Representation for 3D Bounding Box Prediction of Unseen Objects   Aug 2023

Andreas Kriegler, Csaba Beleznai, Margrit Gelautz, Markus Murschitz, Kai Göbel

10.1142/S1793351X23620027 ↗ (International Journal of Semantic Computing (IJSC))

Towards Scene Understanding for Autonomous Operations on Airport Aprons   Dec 2022

Daniel Steininger, *Andreas Kriegler*, Wolfgang Pointner, Verena Widhalm, Julia Simon, Oliver Zendel

10.1007/978-3-031-27066-6_11 ↗ (Asian Conference on Computer Vision (ACCV 2022) Workshops)

PrimitivePose: 3D Bounding Box Prediction of Unseen Objects via Synthetic Geometric Primitives link ↗   Dec 2022

Andreas Kriegler, Csaba Beleznai, Markus Murschitz, Kai Göbel, Margrit Gelautz

International Conference on Robotic Computing (IRC 2022)

Paradigmatic Revolutions in Computer Vision pdf ↗   Dec 2022

Andreas Kriegler

Advances in Neural Information Processing Systems 35 (NeurIPS 2022) Workshops

Visual Semantic Context Encoding for Aerial Data Introspection and Domain Prediction   May 2022

Andreas Kriegler, Daniel Steininger, Wilfried Wöber

10.1007/978-3-031-04881-4_34 ↗ (Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA 2022))

Pose-aware object recognition on a mobile platform via learned geometric representations link ↗   May 2022

Csaba Beleznai, Philipp Ausserlechner, *Andreas Kriegler*, Wolfgang Pointner

Asian Control Conference (ASCC 2022)

Evaluation of Monocular and Stereo Depth Data for Geometry Assisted Learning of 3D Pose   Nov 2021

Andreas Kriegler, Csaba Beleznai, Margrit Gelautz

10.3217/978-3-85125-869-1-01 ↗ (OAGM Workshop 2021 (OAGM 2021))

The Aircraft Context Dataset: Understanding and Optimizing Data Variability in Aerial Domains link ↗   Nov 2021

Daniel Steininger, Verena Widhalm, Julia Simon, *Andreas Kriegler*, Christoph Sulzbacher

International Conference on Computer Vision (ICCV 2021) Workshops

Artificial Neural Networks Based Place Categorization   Oct 2020

Andreas Kriegler, Wilfried Wöber, Mohammed Aburaia

10.1007/978-3-030-62784-3_17 ↗ (International Symposium for Production Research (ISPR 2020))

Vision-based Docking of a Mobile Robot   Sep 2020

Andreas Kriegler, Wilfried Wöber

10.3217/978-3-85125-752-6-03 ↗ (Joint Austrian Computer Vision and Robotics Workshop (ACVRW 2020))

Visual Semantic Context Encoding for Data Harvesting and Domatin Prediction link ↗   Sep 2020

Andreas Kriegler

Diploma Thesis, University of Applied Sciences Technikum Vienna

FH Technikum Wien: Artificial Neural Networks Based State Transition Modeling and Place Categorization pdf ↗   Nov 2018

Andreas Kriegler
Konferenz der Mechatronik Plattform Österreich

Projects

I Can't Believe It's Not Better ICBINB ☑ *Ongoing*
- Crack open the research process
- Organized NeurIPS workshop 'Failure Modes in the Age of Foundation Models' in 2023 link ☑

Languages

- **German** - native
- **English** - TOEFL 116/120 (C2)
- **Japanese** - A1
- **Latin** - A2

References

- **Professor Margrit Gelautz** link ☑ - TU Wien, Faculty of Informatics, Institute of Visual Computing and Human-Centered Technology
- **Dr. Wilfried Wöber** link ☑ - University of Applied Sciences Technikum Vienna, Automation & Robotics

Hobbies

Film, Photography, Computers, Piano, Gym, Cycling