Mert Kilickaya

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• Permanent Resident

Computer Vision and Machine Learning Researcher. Interests: Self-Supervised Learning, Continual Learning, Object Detection, Vision & Language.

Experience

2022 - 2023 Post-doc Researcher - **TU Eindhoven** - Netherlands
Conducting research on self-supervised continual learning

2020 - 2021 Research Intern - **Huawei** - Finland
Conducted research on visual search engine | Published a US Patent

2017 - 2022 Graduate Research Assistant - **University of Amsterdam** - Netherlands
Conducted research on visual action recognition | Published at BMVC, WACV

2013 - 2016 Graduate Research Assistant - **Hacettepe University** - Turkey
Conducted research on vision and language | Published at EACL

Education

2017 - 2022 **PhD Computer Vision** - University of Amsterdam - Netherlands
Action Recognition • Visual Retrieval • Human-object Interactions
Thesis: Contextual Understanding of Visual Interactions
Advisor: Prof. Arnold Smeulders

2013 - 2016 **MSc Computer Vision** - Hacettepe University - Turkey
Computer Vision • Vision and Language
Thesis: Visual Importance with Applications to Vision and Language
Advisor: Prof. Nazli Ikizler-Cinbis

Publications

Selected Papers

2023 Locality Aware Hyperspectral Imaging - *BMVC*
F. Zhou, M. Kilickaya and J. Vanschoren

2023 Towards Label-Efficient Incremental Learning: A Survey - *ArXiv*
M. Kilickaya, J. van de Weijer and Y. M. Asano

2023 Are Labels Needed for Incremental Instance Learning? - *CVPRW (Oral)*
M. Kilickaya and J. Vanschoren

2021 Human-object Interaction Detection via Weak Supervision - *BMVC*
M. Kilickaya and A.W.M. Smeulders

2020 Structured Visual Search via Composition-aware Learning - *WACV*
M. Kilickaya and A.W.M. Smeulders

2020 Self-Selective Context for Interaction Recognition - *ICPR*
M. Kilickaya, N. Hussein, E. Gavves and A.W.M. Smeulders

2017 Re-evaluating Automatic Metrics for Image Captioning - *EACL (Oral)*
M. Kilickaya, A. Erdem, N. Ikizler-Cinbis, E. Erdem

Patents

2022 Visual Search via Conversational Interaction (Con-VIS) - *Huawei Ref. 92005865*

2021 Network For Interacted Object Localization - *Qualcomm Ref. 206518*

2020 Context-driven Learning of Human-object Interactions - *Qualcomm Ref. 200249GR1*

2019 Subject-object Interaction Recognition Model - *US 20200302232A1*

Technical Skills

Platforms (*proficient*): PyTorch, TensorFlow, (*familiar*): HuggingFace
Scientific (*proficient*): OpenCV, Scikit-Learn, SciPy, Pandas, Numpy
Languages (*proficient*): Python (*familiar*): HTML/CSS, C/C++

Miscellaneous

Grants TL150k grant from the Scientific Council to start-up our Visual Analytics Platform, 2016 - Turkey
$20k grant from the Scientific Council of Quebec for research internship, 2014 - Canada

Reviewer *IEEE ToM*, *EMNLP (21, 22, 23)*, *ACL (23)*, *ICML (23)*, *NeurIPS (23)*.

14 Sept 2023