Hazel Doughty

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RESEARCH FOCUS

I am a final year PhD Student in Computer Vision, at the University of Bristol. My research focus during my PhD has been on assessing skill from long videos. Particularly, my work has explored challenging problems including temporal modeling, supervision from narrations, learning video-text embedding spaces and video-level supervision for ranking.

EDUCATION

PhD in Computer Vision (Sep 2016-Present)
Department of Computer Science, University of Bristol
Supervisors: Walterio Mayol-Cuevas, Dima Damen
Thesis: Skill Determination from Long Videos
Expected Graduation: September 2020
EPSRC DTP Funding
EPSRC Project Glance (EP/N013964/1)

MEng in Computer Science
Department of Computer Science, University of Bristol
First Class - Top Ranked Graduate

PUBLICATIONS

Action Modifiers: Learning from Adverbs in Instructional Videos
Hazel Doughty, Ivan Laptev, Walterio Mayol-Cuevas, Dima Damen
Conference on Computer Vision and Pattern Recognition (CVPR), 2020

The Pros and Cons: Rank-aware Temporal Attention for Skill Determination in Long Videos
Hazel Doughty, Walterio Mayol-Cuevas, Dima Damen
Conference on Computer Vision and Pattern Recognition (CVPR), 2019

Scaling Egocentric Vision: The EPIC-Kitchens Dataset
Dima Damen, Hazel Doughty, Giovanni Maria Farinella, Sanja Fidler, Antonino Furnari, Evangelos Kazakos, Davide Moltisanti, Jonathan Munro, Toby Perrett, Will Price, Michael Wray
European Conference on Computer Vision (ECCV) 2018

Who's Better? Who's Best? Pairwise Deep Ranking for Skill Determination
Hazel Doughty, Dima Damen, Walterio Mayol-Cuevas
Conference on Computer Vision and Pattern Recognition (CVPR), 2018

Revealing Nudging Effects of Floor Patterns on Walking in the Real World
Ute Leonards, Hazel Doughty, Dima Damen
Perception, 2016

PUBLIC DATASETS

Bristol Everyday Skill Tasks (BEST)
`https://github.com/hazeld/rank-aware-attention-network`
EPIC-Kitchens `http://epic-kitchens.github.io/`
EPIC-Skills `https://dimadamen.github.io/Skill/`

INTERNSHIPS

2019 Research visit to INRIA Willow (Paris), working with Prof Ivan Laptev
2015 Interdisciplinary Research Internship, University of Bristol,
working with Prof Ute Leonards
2014 Research Internship, Interaction and Graphics Group, University of Bristol

AWARDS, HONOURS, DISTINCTIONS

Doctoral Training Programme Funding (2016-present)
Top Graduating MEng Student, Department of Computer Science (2016)
Best Research MEng Project, Department of Computer Science (2016)
Best Third Year Group Project, Department of Computer Science (2015)
Top 10 2^{nd} Year Students in Computer Science (2014)
Top 5 1^{st} Year Students in Computer Science (2013)

REVIEWING DUTIES

European Conference on Computer Vision (ECCV), 2020
Conference of Computer Vision and Pattern Recognition (CVPR), 2020
AAAI Conference on Artificial Intelligence, 2020
International Conference of Computer Vision (ICCV), 2019
Women in Computer Vision Workshop, 2018-2019
Egocentric Perception, Interaction and Computing Workshop, 2017-2019

ORGANIZATION

Co-Organizer for Women in Computer Vision Workshop, CVPR 2020
Co-Organizer for Egocentric Perception, Interaction and Computing Workshop, CVPR 2020

TALKS AND POSTER PRESENTATIONS

The End-of-End-to-End? A Video Understanding Pentathlon, CVPRW 2020
Oral Presentation: Action Modifers: Learning from Adverbs in Instructional Videos

BMVA Symposium on Video Understanding, 2019
Poster Presentation: The Pros and Cons: Rank-aware Temporal Attention for Skill Determination in Long Videos

CVPR Demo, 2019
Demonstration: Scaling Egocentric Vision: The EPIC-Kitchens Dataset

Egocentric Perception, Interactions and Computing (EPIC), ICCVW 2017
Oral Presentation: Skill Determination from Egocentric Video

TEACHING

Teaching Assistant, 2016-present
Multiple undergraduate Computer Science courses including: Data Structures and Algorithms (Y2), Symbols, Patterns and Signals (Y2),
Advanced Algorithms (Y3), Applied Deep Learning (Y4)