# Vision-based Web Page Segmentation

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Introduction

# WPS (Web Page Segmentation) usage

- Data mining, document indexing
- Assistive technologies

## Many WPS algorithms

• With **different approaches**, strengths & weaknesses

### FitLayout framework

- Tools for **WPS evaluation** and further research
- Suite of already implemented WPS algorithms
- Goal: Extend FitLayout with another one

# **Locally Significant Edges**



Edge strength (obtained

## Supervisor: doc. Ing. Radek Burget, Ph.D.

# **Integration & Pipeline**



# **Final Segmentation**



# **Testing & Evaluation**





- Most results meet expectations
- Exceptions with differences



- - featured items, ...

#### • Poor segmentations



#### Parameter evaluation

- Affects granularity, speed, ...
- Optimal values for most pages
- Improve the results by **23.13%**







[1] Michael Cormier (2018). Computer Vision on Web Pages: A Study of Man-Made Images. UWSpace. http://hdl.handle.net/10012/13523 [2] https://www.humblebundle.com/