Person Search by Multi-Scale Matching

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1. Introduction

Person Search

1.1. Task:
Find a probe person in a gallery of whole unconstrained scene images.

1.2. Contributions:
- Identify the multi-scale matching problem in person search (ignored in the literature but significant for improving the model performance).
- Formulate a Cross-Level Semantic Alignment (CLA) to addressing multi-scale problems.

1.3. Challenges:
- Uncontrolled mis-detections in the detection process.
- The multi-scale matching challenge.

2. Methodology

Multi-Scale Learning Person Search framework

3. Experiments

3.1. Comparisons to the State-of-the-Arts Person Search Methods

3.2. Comparisons to Alternative Multi-Scale Learning Methods

4. Conclusion

- CLSA constructing a feature pyramid and enhancing representational power with a semantic alignment loss.
- The results validate the performance superiority of CLSA model.

5. Reference