



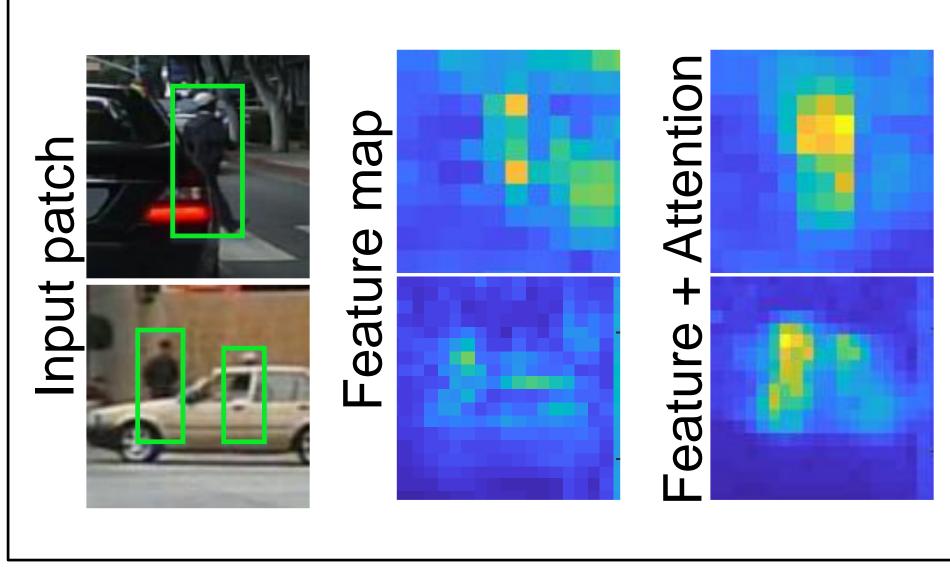
INTRODUCTION

Pedestrian detection is an important research topic in computer vision. Despite the recent progress, pedestrian detection still remains a challenging problem. Small and occluded pedestrians are often miss-detected due to low resolution and noisy representation.

CONTRIBUTIONS

To handle these issues, we propose:

- Fine-grained attention module to guide the detector to focus on pedestrian regions
- Intuitive zoom-in-zoom-out module to further alleviate the detection of pedestrians of small size



Graininess-aware Deep Feature Learning for Pedestrian Detection

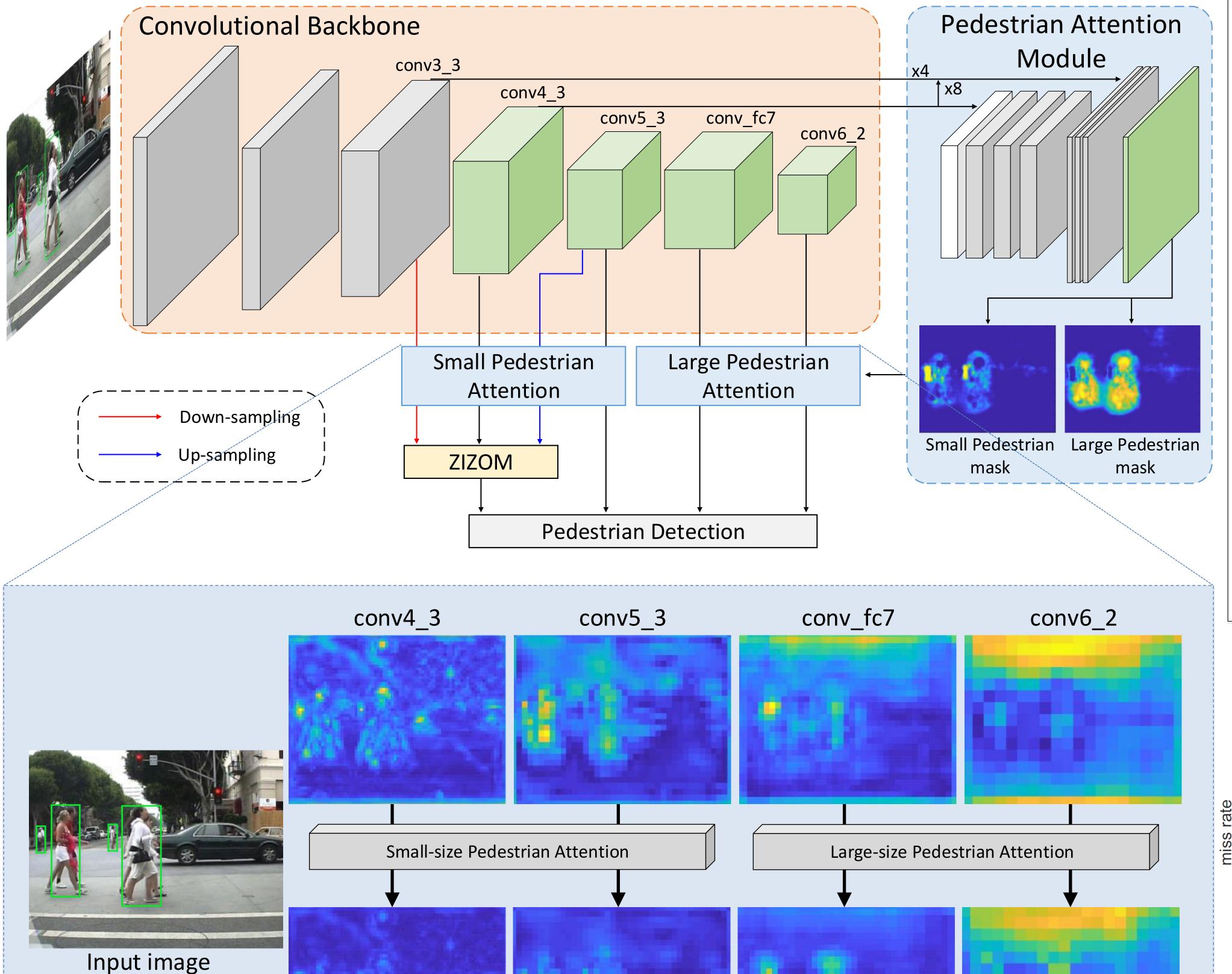
Chunze Lin, Jiwen Lu, Gang Wang, Jie Zhou Tsinghua University, China; Alibaba A.I. Labs, China

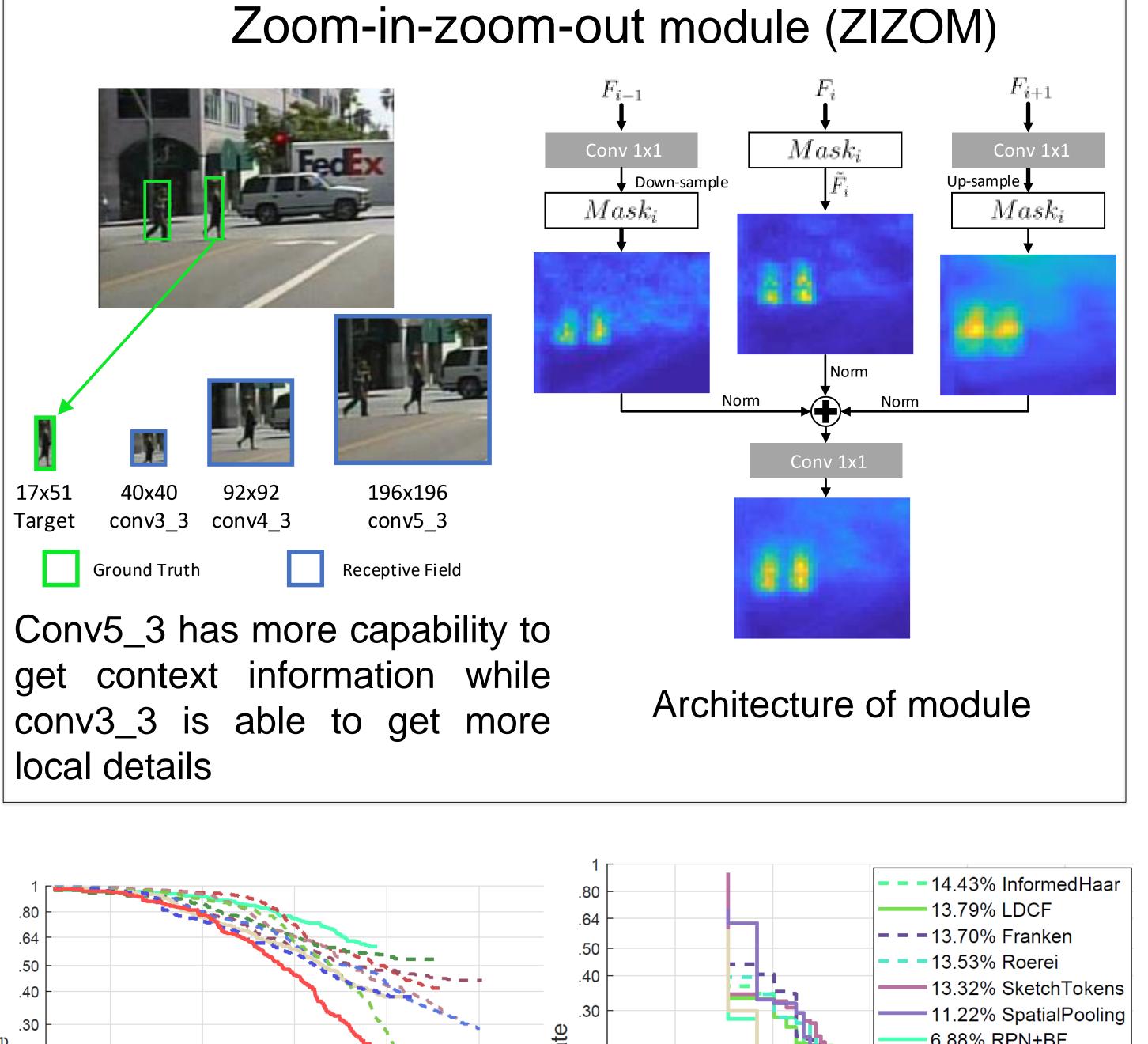
Icz16@mails.tsinghua.edu.cn, lujiwen@tsinghua.edu.cn, wg134231@alibaba-inc.com, jzhou@tsinghua.edu.cn

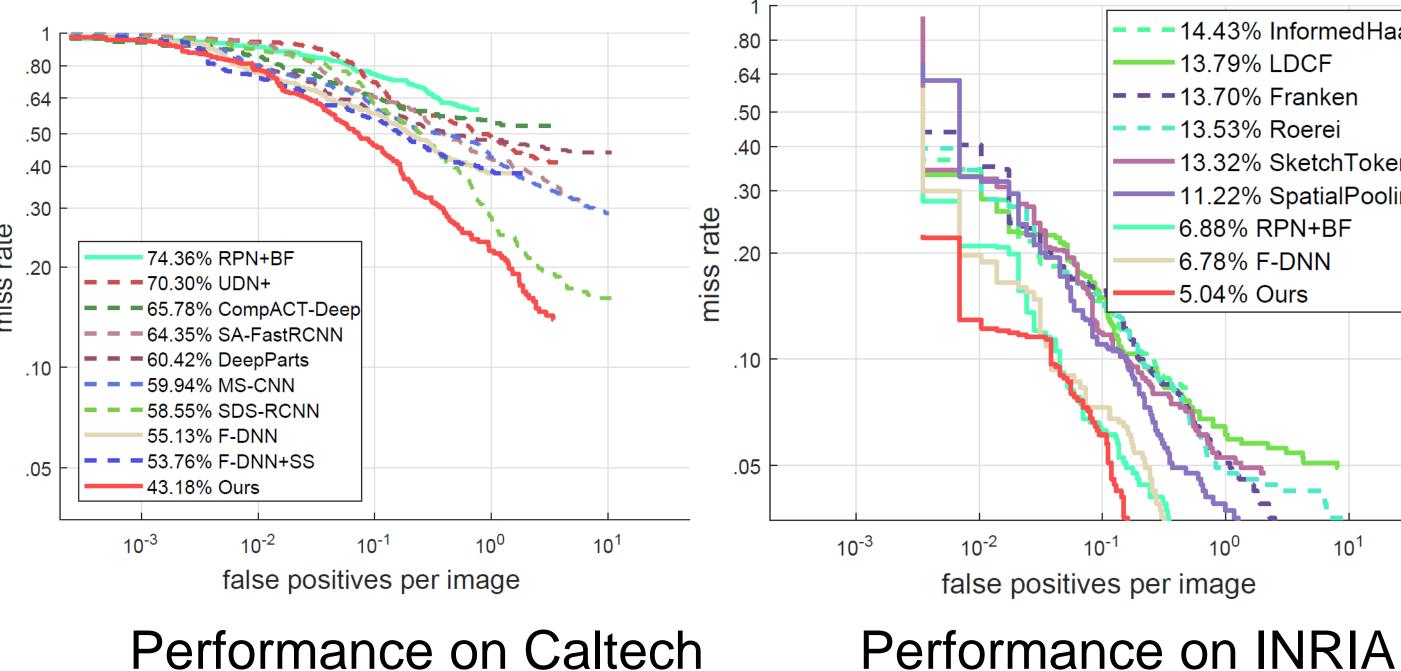


8 – 14 September 2018 I Munich, Germany

Pedestrian Reasonable







Pedestrian Heavy Occluded