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Hierarchical Objectness Network for Region Proposal Generation and Object Detection

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Highlights

- We propose a hierarchical objectness network for region proposal generation and object detection to address the inaccurate localization problem.
- We subtly localize the objects by predicting the stripe objectness, i.e., a group of probabilities reflecting the existence of the object in each location of the candidate proposal.
- We construct the hierarchical features by reversely connecting multiple convolutional layers to detect objects with large-scale variations.

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