

IP-Geolocator: A More Reliable IP Geolocation Algorithm Based on Router Error Training

Shuodi ZU, Xiangyang LUO, Fan ZHANG

Frontiers of Computer Science, DOI: [10.1007/s11704-021-0427-4](https://doi.org/10.1007/s11704-021-0427-4)

Problems & ideas

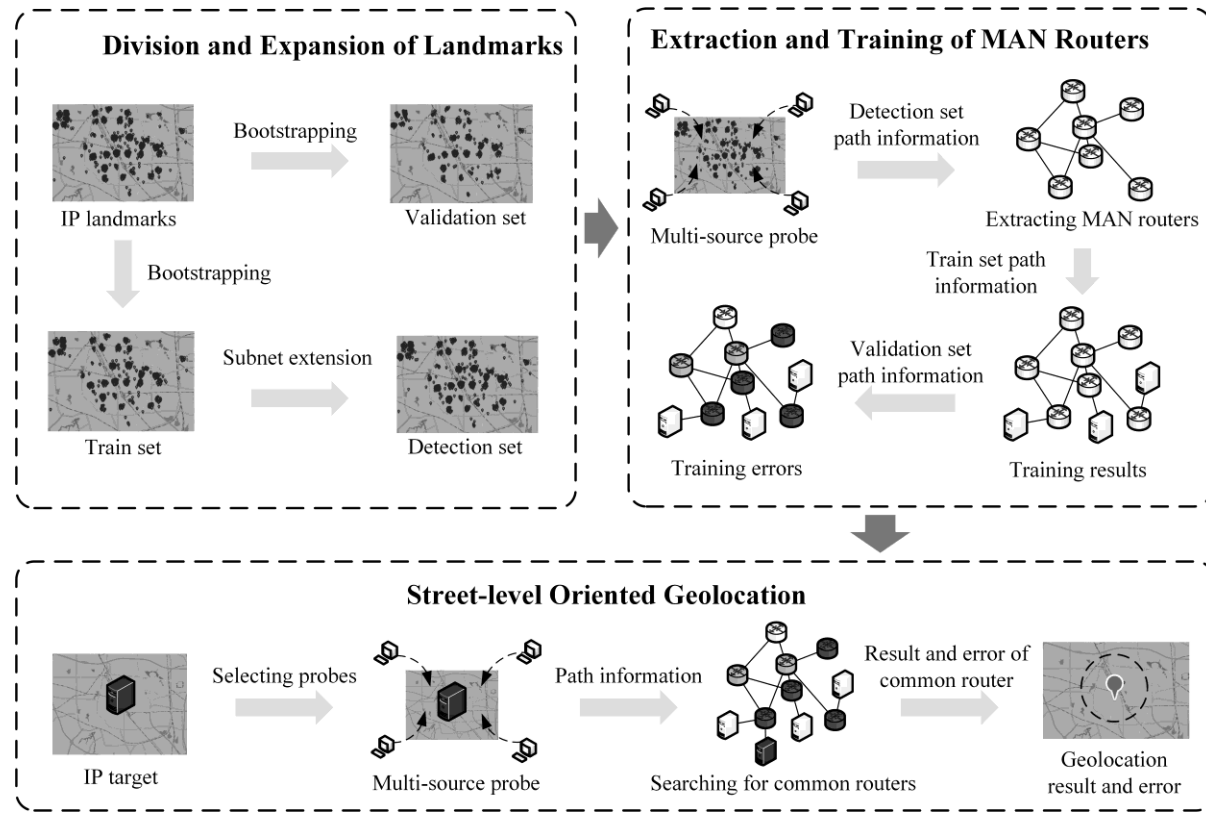
- The existing geolocation algorithms have problems such as low geolocation accuracy and uncertain geolocation error
 - low geolocation accuracy
 - uncertain geolocation error
- Ideas: Geolocation Based on Router Error Training

–Division by bootstrapping and Expansion by /24 subnet

–Extraction MAN by probe path

–Training MAN by landmarks

–Geolocation by Trained MAN



Main Contributions

- Higher geolocation accuracy and lower median error than existing typical geolocation algorithms
- Difference between the estimated error and the actual error less than 10 km in most cases

