

Accelerating Temporal Action Proposal Generation via High Performance Computing

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Problems & Ideas

- Problems of temporal action proposal generation
 - Networks with simple architectures cannot extract enough information from videos
 - The methods proposed should be efficient
- Ideas: High performance computing approach
 - A novel network architecture: Multipath Temporal ConvNet (MTN)
 - Ring parallel architecture for acceleration

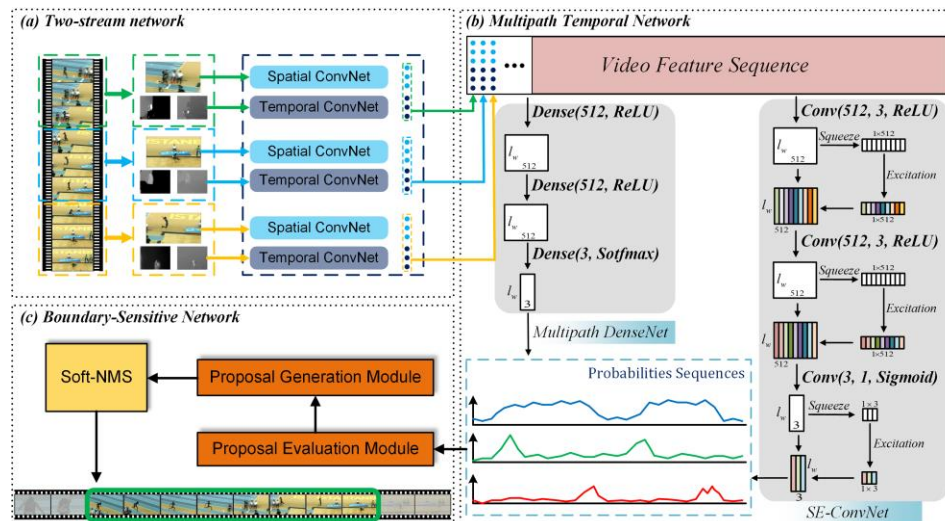
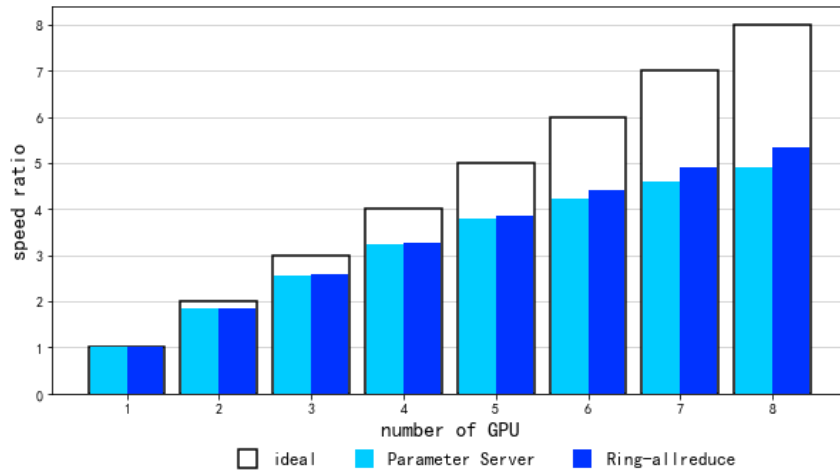
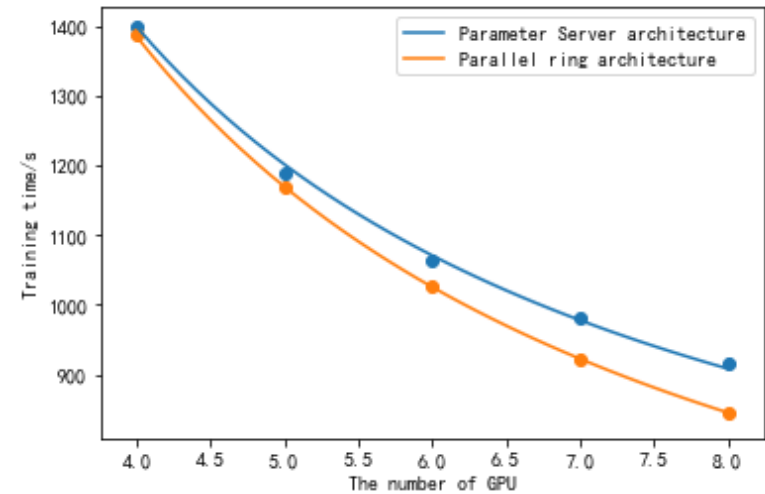


Fig 1. Multipath temporal network

Main Contributions



- Fig 2. Comparison between PS and our parallel architecture



- Table 1. Fitting curve of training time function