CrowdMR: Integrating Crowdsourcing with MapReduce for AI-hard Problems
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Motivations
- Unsatisfactory accuracy in AI-hard problems.
- Scalability problem is severe.
- Human intelligence is ignored.

Contributions
- Integrate Crowdsourcing with MapReduce.
- An incremental scheduling method.
- An demonstration of online gender classification.

Workflow
- Problem decomposition.
- Job distribution.
- Map-auto & map-human.
- Shuffle-auto & shuffle-human.
- Update results. pay-as-you-go

Features
- Machine computation first.
- Human computation for tasks with low confidence.
- Merge results from both ends.
- Any-time accessible results.

Demonstration
- Gender classification from images → Face identification + Gender classification.