

# Crowdsourcing for Speech Processing: Applications to Data Collection, Transcription and Assessment

Maxine Eskenazi, Gina-Anne Levow, Helen Meng, Gabriel Parent, David Suendermann

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Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data

Intended for those who want to get started in the domain and learn how to set up a task, what interfaces are available, how to assess the work, etc. as well as for those who already have used crowdsourcing and want to create better tasks and obtain better assessments of the work of the crowd. It will include screenshots to show examples of good and poor interfaces; examples of case studies in speech processing tasks, going through the task creation process, reviewing options in the interface, in the choice of medium (MTurk or other) and explaining choices, etc.

- Provides an insightful and practical introduction to crowdsourcing as a means of rapidly processing speech data
- Addresses important aspects of this new technique that should be mastered before attempting a crowdsourcing application.
- Offers speech researchers the hope that they can spend much less time dealing with the data gathering/annotation bottleneck, leaving them to focus on the scientific issues.
- Readers will directly benefit from the book's successful examples of how crowd-sourcing was
  implemented for speech processing, discussions of interface and processing choices that worked and
  choices that didn't, and guidelines on how to play and record speech over the internet, how to design tasks,
  and how to assess workers.

Essential reading for researchers and practitioners in speech research groups involved in speech processing



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