Abstract: Crowdsourcing allows many people to complete tasks of various difficulties with minimal recruitment and administration costs. However, the lack of participant accountability may entice people to complete as many tasks as possible without fully engaging in them, jeopardizing the quality of responses. In this talk, I will first introduce a dynamic and time efficient strategy that can detect malicious behaviors from Crowdsourcing workers and select workers to ensure high accuracy of the overall task. And after that, I will introduce a dynamic contract from requester to workers to incentivize high-quality work. In contrast to many existing pricing policies, our contract design is not only adaptive to changes in workers’ behavior, but also adjusts pricing policy in the presence of malicious behavior. Finally, I will briefly mention some of my future research plans.

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