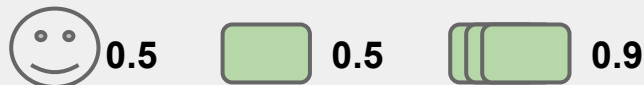


How to optimize the number of task replicas required to achieve a predefined credibility level in the result?

Our Strategy for Volunteer Thinking Projects

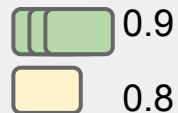
Credibility Measures

Volunteer Result Group of Results



Replicas Generation

Group of Results



More replicas?

Replicas Routing

New Replica

Which volunteer?



Our credibility-based strategy reduces the number of replicas in several scenarios!!!

The follow-up

Ponciano, Lesandro; Brasileiro, Francisco. "**Agreement-based credibility assessment and task replication in human computation systems.**" *Future Generation Computer Systems*, 87 (2018): 159-170. DOI: [10.1016/j.future.2018.05.028](https://doi.org/10.1016/j.future.2018.05.028)

Ponciano, Lesandro; Brasileiro, Francisco; Gadelha, Guilherme; Furtado, Adabriand. **Adaptive Task Replication Strategy for Human Computation.** In: 2014 Brazilian Symposium on Computer Networks and Distributed Systems (SBRC), 2014, Florianopolis. p. 249-257. DOI: [10.1109/SBRC.2014.30](https://doi.org/10.1109/SBRC.2014.30)

PONCIANO, Lesandro; Brasileiro, Francisco; Gadelha, Guilherme. **Task Redundancy Strategy Based on Volunteers' Credibility for Volunteer Thinking Projects.** In: AAI Conference on Human Computation and Crowdsourcing, 2013, Palm Springs. p. 60-61.