The scientific state of the art in Crowdsourcing

An overview of Crowdsourcing, its different facets, challenges and criticisms

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ABSTRACT

- 1. INTRODUCTION
- 2. CROWDSOURCING DEFINED
- 3. OVERVIEW OF CROWDSOURCING SYSTEMS AND PLATFORMS
- 4. DIFFERENT CROWDS FOR DIFFERENT PROBLEMS
- 5. CHALLENGES IN CROWDSOURCING INI-TIATIVES
- 6. CRITICAL CONSIDERATIONS OF CROWD-SOURCING
- 7. CONCLUSION
- 8. REFERENCES
- O. Alonso, D. E. Rose, and B. Stewart. Crowdsourcing for relevance evaluation. In ACM SigIR Forum, volume 42, pages 9–15. ACM, 2008.
- [2] M. Antikainen, M. Mäkipää, and M. Ahonen. Motivating and supporting collaboration in open innovation. European Journal of Innovation Management, 13(1):100–119, 2010.
- [3] D. C. Brabham. Crowdsourcing as a model for problem solving: An introduction and cases. Convergence: the international journal of research into new media technologies, 14(1):75–90, 2008.

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- [4] D. C. Brabham. Moving the crowd at istockphoto: The composition of the crowd and motivations for participation in a crowdsourcing application. *First Monday*, 13(6), 2008.
- [5] D. C. Brabham. Moving the crowd at threadless: Motivations for participation in a crowdsourcing application. *Information, Communication & Society*, 13(8):1122–1145, 2010.
- [6] A. Doan, R. Ramakrishnan, and A. Y. Halevy. Crowdsourcing systems on the world-wide web. Communications of the ACM, 54(4):86–96, 2011.
- [7] E. Estellés-Arolas and F. González-Ladrón-de Guevara. Towards an integrated crowdsourcing definition. *Journal of Information science*, 38(2):189–200, 2012.
- [8] J. J. Horton and L. B. Chilton. The labor economics of paid crowdsourcing. In *Proceedings of the 11th ACM* conference on *Electronic commerce*, pages 209–218. ACM, 2010.
- [9] J. Howe. The rise of crowdsourcing. Wired magazine, 14(6):1–4, 2006.
- [10] T. Hoßfeld, A. Mäder, K. Tutschku, F.-U. Andersen, C. Kappler, H. de Meer, I. Dedinski, and J. Oberender. CrowdTesting: A Novel Methodology for Subjective User Studies and QoE Evaluation. Technical Report 486, University of Würzburg, Institute of Computer Science, Febuary 2013.
- [11] A. Kittur, E. H. Chi, and B. Suh. Crowdsourcing user studies with mechanical turk. In *Proceedings of the* SIGCHI conference on human factors in computing systems, pages 453–456. ACM, 2008.
- [12] W. Mason and D. J. Watts. Financial incentives and the performance of crowds. ACM SigKDD Explorations Newsletter, 11(2):100–108, 2010.
- [13] J. A. Redi, T. Hoßfeld, P. Korshunov, F. Mazza, I. Povoa, and C. Keimel. Crowdsourcing-based multimedia subjective evaluations: a case study on image recognizability and aesthetic appeal. In Proceedings of the 2nd ACM international workshop on Crowdsourcing for multimedia, pages 29–34. ACM, 2013.
- [14] H. Simula. The rise and fall of crowdsourcing? In System Sciences (HICSS), 2013 46th Hawaii International Conference on, pages 2783–2791. IEEE, 2013.