

## Accepted Manuscript

An approximate solution to rent-seeking contests with private information

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PII: S0377-2217(16)30594-X  
DOI: [10.1016/j.ejor.2016.07.039](https://doi.org/10.1016/j.ejor.2016.07.039)  
Reference: EOR 13865



To appear in: *European Journal of Operational Research*

Received date: 21 July 2015  
Revised date: 15 July 2016  
Accepted date: 18 July 2016

Please cite this article as: Andrea Gallice, An approximate solution to rent-seeking contests with private information, *European Journal of Operational Research* (2016), doi: [10.1016/j.ejor.2016.07.039](https://doi.org/10.1016/j.ejor.2016.07.039)

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## Highlights

- We study rent-seeking contests with private information.
- We propose a method to approximate the optimal level of investment in the game.
- The method only requires knowledge of the mean of the distribution of valuations.
- We compare the approximate and the optimal solutions in a variety of contexts.
- The method performs well across a wide range of model specifications.

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