INSPIRE: Expanding Open Innovation Methods to Complex Engineering Systems

PIs: Zoe Szajnfarber¹ and Hila Lifshitz-Assaf²
Students: Jason Crusan, Anthony Hennig, Suparna Mukherjee, Lydia Zhang

¹ The George Washington University, School of Engineering
² New York University, Stern School of Management

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Q: Who is the Crowd? (and can “they” really solve my autonomous robotic design problem?)

Experimental manipulation: Decomposition strategy + problem complexity

Freelancer Challenge Page

Registration Survey

Challenge Selection Page

Submissions

Exit Surveys

27M+ Freelancers

9000+ potential solvers reached

3737+ demonstrated interest

255 Solutions From 139 Solvers Across 16 Challenges

9000+ potential solvers reached

3737+ demonstrated interest
Most and best results came from solvers who had prior robotics experience but believe the problem was at the boundary of their expertise.
What kind of good solutions did we receive?

Open Innovation in engineering isn’t just about an extreme value point solution. The crowd explored a broad tradespace, shared solving insights and produced serious engineering work that we didn’t expect. All for pennies/hour.