Analyzing the frictional force and corresponding motion in accordance to the area of contact.

Congratulations, You have qualified for the paper submission round.
Nice. It is good to challenge the most fundamental aspects of any problem. There is a merit in this work. The idea may or may not work.
The candidates are advised to maintain the following characteristics before the final submission:
- Novelty/Realistic - Practical Feasibility - Expected Outcome
Some important links to understand how to write a research paper/manuscript:
- https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=2ah UKEwjk0Mm1qarfAhXHto8KHYHsDHsQFjAAegQICBAC&url=https%3A%2F%2Fmsu.edu%2Fco urse%2Flbs%2F158h%2Fmanual%2Fpaper.pdf&usg=AOvVaw2CGb8xNimYardVVTOfn5Y_

- https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&cad=rja&uact=8&ved=2ah UKEwjk0Mm1qarfAhXHto8KHYHsDHsQFjAEegQIBhAC&url=http%3A%2F%2Fwww.ugresearch. umd.edu%2Fdocuments%2Fjenkins_howtowritearticle.pdf&usg=AOvVaw2e8O42VXrVhJum2cTPjL YM