

Probability calculation from probability of clues

Each moon landing fake lead has a credibility rate and a doubt rate:

p_{cred} , p_{doubt}

$$p_{\text{cred}} = 1 - p_{\text{doubt}}$$

If you assume average credibility in a first step, you get a simple calculation:

In order to calculate the probability [P_{real}] of the authenticity of the moon landing, all the [n] indications **would not have to** apply. For doing this one would have to calculate the doubt rate of all the [n] clues together and use them to calculate the probability of the whole forgery in a first step with equal values:

Afterward:

$$P_{\text{real}} = (1 - p_{\text{doubt}})^n$$

In a second step you could...

$$P_{\text{real}} = \prod_{i=\{1..n\}} (1 - p_{\text{doubt}})$$

...consider the different credibilities.

Conclusion: with a very large number of indications of a fake, the probability of the authenticity of the moon landing is practically 0.