The option value of advanced R&D

Existing tools for making R&D investment decisions cannot properly capture the option value in R&D. Since many new products are identified as failures during the R&D stages, the possibility of refraining from market introduction may add a significant value to the NPV of the R&D project. This paper presents new theoretical insight by developing a stochastic jump amplitude model in a real setting. The option value of the proposed model depends on the expected number of jumps and the expected size of the jumps in a particular business. The model is verified with empirical knowledge of current research in the field of multimedia at Philips Corporate Research. This way, the gap between real option theory and the practice of decision making with respect to investments in R&D is diminished.

Additional Metadata

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Despite recent advances, however, the valuation and optimal exercise of American options remains one of the most challenging problems in derivatives finance, particularly when more than one factor affects the value of the option. This is primarily because finite difference and binomial techniques become impractical in situations where there are multiple factors. Advanced Item Profile Options: Explained. Profile options manage configuration data centrally and influence the behavior of applications. Only those customers who have licensed Oracle Fusion Product Hub can access these advanced profile options. The profile options have a default value, which can be used for initial installations. These advanced profile options should be evaluated to determine if additional values should be set. Manage these values using the Manage Advanced Item Profile Options task in the Setup and Maintenance work area.