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LinkPredict - Dynamic and Modular Link Budget Tool

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Do you need to create a link budget? If so, chances are high you download Jan King's Excel spreadsheet, fill in your numbers, and take the result from there.

But that is a cumbersome, manual process that only outputs one result per case.

Now there is LinkPredict!

LinkPredict is a Python3 library for defining radio links in a generic and modular way and provides time-dependent outputs of the link performance.

Generic means that one can construct radio links for terrestrial applications as well as space-to-ground, ground-to-space, orbiter-to-rover, and others.

Dynamic means every input value to the link budget can be supplied as a time-varying function. This way, the time-dependent effects (such as change of distance) can be analysed and visualized.

Primary authors: SCHOLZ, Artur (LibreCube Initiative); Mr SAFFER, Jona

Presenter: SCHOLZ, Artur (LibreCube Initiative)

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