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methods for various
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That's one source of
uncertainty in
mathematical modelling:
even if you do your best
to include all you know in
your model, you can
never be completely sure
that it accurately
describes reality.
Choosing an unsuitable
model, and then
confusing it with reality, is
a common error in
modelling. It's partly what
caused the financial crash
in 2008.

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Mathematical modeling
can result in an epistemic
uncertainty or an
acknowledged error when
alternative models can be
used to address the same
aspects of the problem.
Presumably, only one
model is more correct for
the simulation, but this
information is not
generally known
beforehand, i.e. in a
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