

Information content analysis reveals desirable aspects of in vivo experiments of a synthetic circuit

Sensitivity Analysis Script:

The 1st order sensitivity analysis performed in this work presented in [1]. In particular, the function used to calculate the sensitivity index for a specific observable and experimental prediction is the function published by [1] called `sensitivity_analyses` that can be obtained in the GitHub repository:

https://github.com/alexjau/uqsa/blob/master/SA/sensitivity_analyses.m

References:

[1] Eriksson, O., Jauhiainen, A., Sasane, S. M., Kramer, A., Nair, A. G., Sartorius, C. & Kottaleski, J. H., 2018. Systems biology Uncertainty quantification, propagation and characterization by Bayesian analysis combined with global sensitivity analysis applied to dynamical intracellular pathway models. *Bioinformatics*. pp. 1-9