

No paper  
available

Theme: Modelling

Session: WeC3 - Bioeconomic modelling 2

Title: **Bioeconometrics: Empirical Modeling of Bioeconomic Systems**

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Abstract: This paper provides a working definition of bioeconometrics and a taxonomy of model types. A bioeconometric model is an empirical model of a bioeconomic system in which quantitative changes in one or more parameters can affect the qualitative behavior of the dynamical system. Bioeconometric model types include equilibrium, dynamically decoupled, and dynamically coupled. The importance of bioeconometrics is illustrated with a Monte Carlo analysis of simulated data that attempts to differentiate among six different qualitative categories in a system characterized by critical depensation.