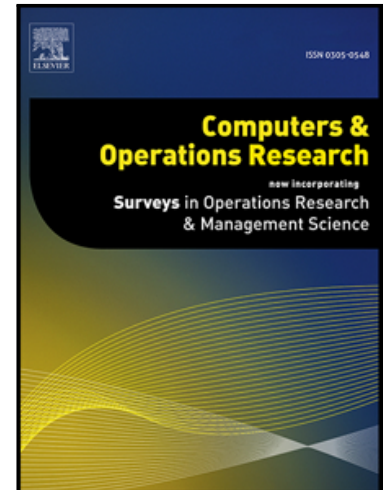


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Optimal operation policy for a sustainable recirculation aquaculture system for ornamental fish: simulation and response surface methodology

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Highlights

- A model was optimized for a sustainable recirculation aquaculture system (RAS) specializing in ornamental fish
- A modular mathematical simulation model is presented for the RAS.
- The ornamental fish RAS problem was solved through simulation modeling integrated with RSM optimization
- A step-by-step method is presented to determine optimal operational management regime for Ornamental RAS
- Applying the recommended policy to a case study increases profits nearly 10-fold

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