



Supplement of

Operationalizing equity in multipurpose water systems

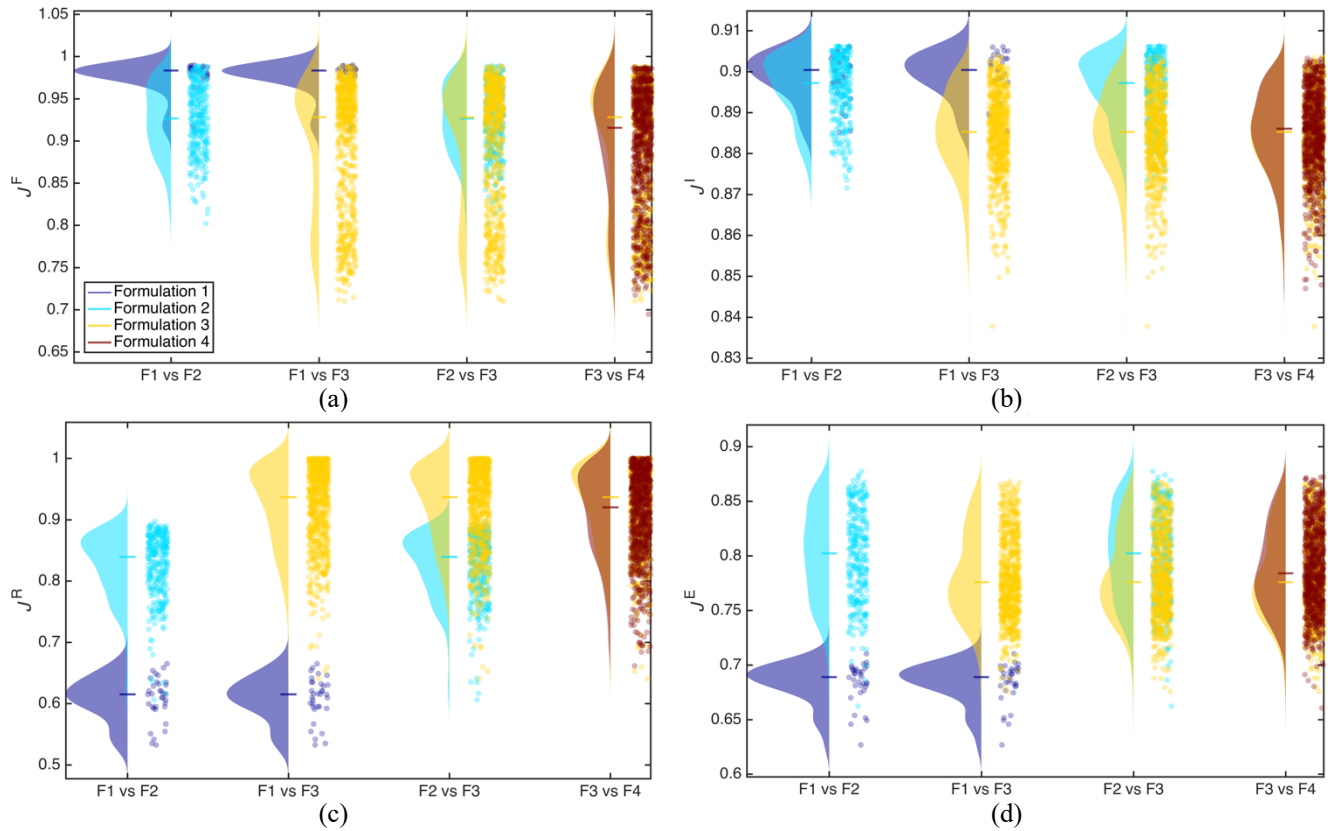
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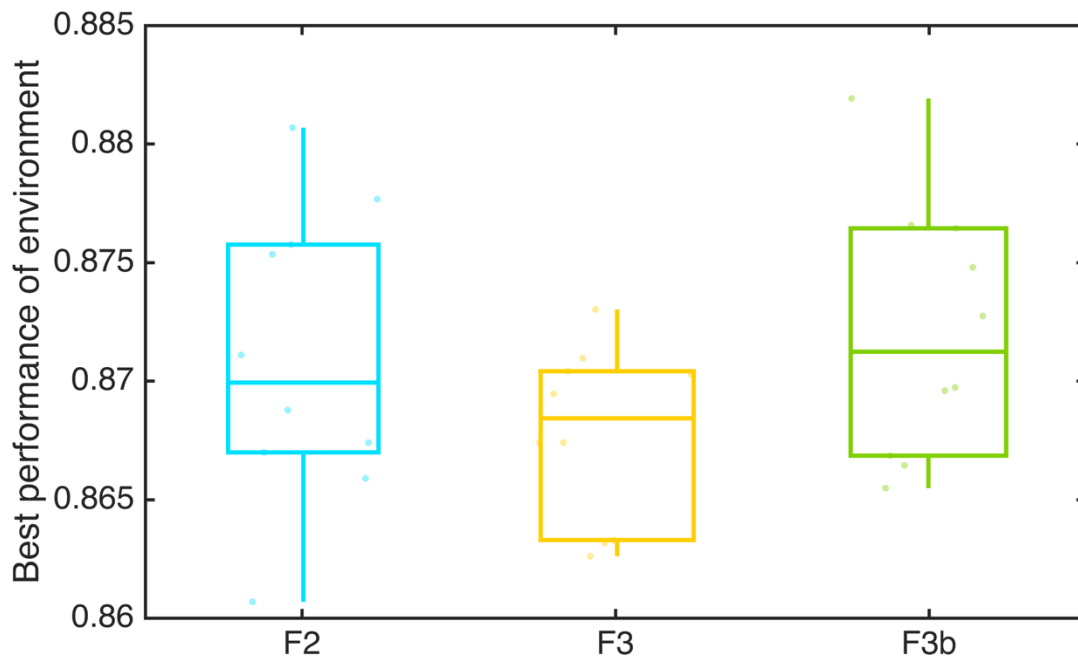
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Content of this file:

- Supplementary Figure S1
- Supplementary Figure S2



5 **Figure S1. Density distribution comparisons of (a) J^F , (b) J^I , (c) J^R , and (d) J^E between problems F1 & F2, F1 & F3, F2 & F3, and F3 & F4. The density distribution is estimated by using kernel density estimation. Horizontal dash line refers to the median value of all solutions. The x-axis represents the comparison between various problem formulations.**



10 **Figure S2. Boxplot of best performance of 10 random optimization trials of F2, F3, and F3b, which refers to a new problem formulation including flood, irrigation, and environment.**