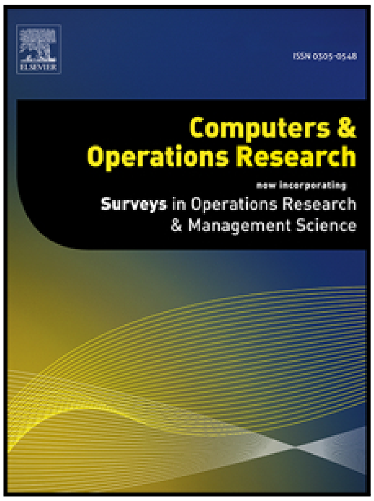

Scenario cluster Lagrangean decomposition for risk averse in multistage stochastic optimization

Laureano F. Escudero, María Araceli Garín, Aitziber Unzueta

PII: S0305-0548(17)30098-9
DOI: 10.1016/j.cor.2017.04.007
Reference: CAOR 4231

To appear in: *Computers and Operations Research*

Received date: 7 April 2016
Revised date: 22 March 2017
Accepted date: 12 April 2017

Highlights

- A Multistage scenario Cluster Dualization and Lagrangean Relaxation is presented.
- Time Stochastic Dominance (TSD) risk averse measure is considered.
- Dualization of the NAC and Relaxation of the cross node constraints are considered.
- Three Lagrangean multipliers updating procedures are presented.
- A broad computational comparison between our algorithm and CPLEX is reported.