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Anais de Resumos

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Celso Fritsch

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José Luis Duarte Ribeiro
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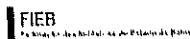
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Lia Buarque de Macedo Guimarães
Raimundo Lopes Diniz
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and technically possible. Concerning this, the Value Stream Map has the necessary tools to identify the production problems and to propose improvements. This paper aims to make considerations about this Lean Supply Chain and how the application of Value Stream Map tools could make such process possible.

Emprego do método electre iii na escolha de prestadoras de serviço para transporte de materiais perigosos Adriana Costa Soares, Patricia Fernandes de Oliveira, Hélder Gomes Costa, *UENF*

This work describes an original model for ordenation and choice of service providers for transportation of dangerous materials, supported in a Multicriteria Decision Aid - MDA. This methodology presents special features which incorporates a scientific treatment to the subjectivity present in the procedure of evaluating service providers performance. This work uses the ELECTRE III method, which deals with qualitative and quantitative data, giving a feasible solution, which is not necessarily an optimal one, with acceptable costs and using a mathematics logic. This method has its logic structured in the establishment of the decision preferences, being efficient according to the objective of this work.

sala 10 17/10 14:00-16:00

ST10 - Planejamento de Produto, Processo e Produção

A tabu search-simulated annealing heuristic for permutation flowshops João Vitor Moccasin, Maristela Oliveira Dos Santos, Marcelo Seido Nagano, *USP*

This paper deals with the Flow Shop Sequencing problem. Since this scheduling problem is NP-hard, many heuristic methods have been proposed for sequencing jobs in a flow shop with the objective of minimizing makespan. A class of such heuristics finds a good solution by improving initial sequences for the jobs through neighbourhood search techniques as Tabu Search (TS) and Simulated Annealing (SA). A promising approach for the problem is the formulation of hybrid metaheuristics by combining TS and SA techniques so that the consequent procedure is more effective than either pure Tabu Search or Simulated Annealing methods. In this paper we present a hybrid TS-SA heuristic for the minimal makespan flow shop sequencing problem. The effectiveness of the hybridisation is evaluated by using computational experience. Significant results are presented.

Connecting streams in postponement research Patrícia Alcantara Cardoso, Nélio Domingues Pizzolato, Walter Zinn, *PUC/RJ*

The principle of postponement proposes that the time of shipment and the location of final product processing in the distribution of a product be delayed until a customer order is received. Through the years numer-

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