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A Stochastic Linear Programming Modeling and Solution Approach for Planning the Supply of Rewards in Loyalty Reward Programs

Cao Y., Nsakanda A. L. and M. Diaby (2012), "A Stochastic Linear Programming Modeling and Solution Approach for Planning the Supply of Rewards in Loyalty Reward Programs", International Journal of Mathematics in Operational Research, forthcoming.

Publication Type: Articles in Refereed Journals

Area of Research: Information Systems, Management Science and Operations Research

Exploring Contracts with Options In Loyalty Reward Programs Supply Chain

Cao, Y., Nsakanda, A. L., Diaby, M., Ji, S. and M. Hine (2012), "Exploring Contracts with Options In Loyalty Reward Programs Supply Chain", Proceedings of the 45th Annual Hawaii International Conferences on System Sciences, January 4-7, pp. 1257-1266, Maui, Hawaii, USA.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

Complexity and Knowledge Transfer in Global Software Outsourcing Project Teams: A Transactive Memory Systems Perspective

Qu, G., Ji, S. and A. L. Nsakanda (2012), "Complexity and Knowledge Transfer in Global Software Outsourcing Project Teams: A Transactive Memory Systems Perspective", Proceedings of the 45th Annual Hawaii International Conferences on System Sciences, January 4-7, pp. 3776-3785, Maui, Hawaii, USA.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Information Systems

An Aggregate inventory-based model for predicting redemption and liability in loyalty reward programs industry

Nsakanda, A. L., Diaby, M. and Y. Cao (2011), "An Aggregate inventory-based model for predicting redemption and liability in loyalty reward programs industry", Information Systems Frontiers, 13, 707-709.

Publication Type: Articles in Refereed Journals

Area of Research: Information Systems, Management Science and Operations Research

Project crashing in the presence of general non-linear activity time reduction costs

Diaby, M., Cruz, J., and A. L. Nsakanda (2011), "Project crashing in the presence of general non-linear activity time reduction costs", International journal of Operational Research, 12(3), 318-332.

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research

An aggregate inventory-based model for predicting redemption and liability in loyalty rewards program industry

Nsakanda, A. L., Diaby, M. and Y. Cao (2011), "An aggregate inventory-based model for predicting redemption and liability in loyalty rewards program industry", Northeast Decision Sciences Institute

Conference, Montreal (Canada), April 14-16.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

Airport Delay Analysis through Simulation

Nsakanda, A. L., Cao, Y., Friedrichs, P., Smyth, D. and M. Diaby (2011), "Airport Delay Analysis through Simulation". Poster Presentation, Informs Conference on Business Analytics and Operations Research, Chicago (USA), April 10-12.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

Airport Delay Analysis through Simulation

Nsakanda, A. L., Cao, Y., Friedrichs, P. and D. Smyth (2011), "Airport Delay Analysis through Simulation". Sprott School of Business, Winter 2011 Seminar Series, Ottawa (Canada).

Publication Type: Invited Speakers

Area of Research: Management Science and Operations Research

Solving capacitated part-routing problems with set-up times and costs: A Dantzig-Wolfe based solution approach

Nsakanda A. L., Diaby M., Cao Y. L. (2010), "Solving capacitated part-routing problems with set-up times and costs: A Dantzig-Wolfe based solution approach", International Transactions in Operational Research, 18, 71-86.

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research, Manufacturing, Production and Operations Management

A price-directed decomposition approach for solving large-scale capacitated part-routing problems

Nsakanda A. L., Diaby M., Price W.L. (2010), "A price-directed decomposition approach for solving large-scale capacitated part-routing problems", International Journal of Production Research, 48(14), 4273-4295.

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research, Manufacturing, Production and Operations Management

Planning the Supply of Rewards in Loyalty Reward Programs- A Supply Chain Perspective

Cao Y., Nsakanda A.L., Diaby M. (2010), "Planning the Supply of Rewards in Loyalty Reward Programs- A Supply Chain Perspective", Decision Science Institute Conference, San Diego (California), November 20-23.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

A Typology Framework of Loyalty Reward Programs

Cao Y., Nsakanda A.L., Mann I. J. S. (2010), "A Typology Framework of Loyalty Reward Programs", in Zaman M. et al. (Eds), Communication in Computer and Information System 113 - E-business Technology and Strategy, International Conference Proceedings, Ottawa, Canada, September 29-30, 159-170.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

Aggregate planning of rewards-supply in loyalty reward programs

Cao Y., Nsakanda A.L., Diaby M. (2010), "Aggregate planning of rewards-supply in loyalty reward programs", ASAC Conference, Regina (Saskatchewan), May 22-24.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

Coping with the Planning of Rewards Supply in Loyalty Reward Programs– A Mathematical Formulation Model

Cao Y., Nsakanda A.L., Diaby M. (2010), "Coping with the Planning of Rewards Supply in Loyalty Reward Programs– A Mathematical Formulation Model", POMS Conference, Vancouver (British Columbia), May 7-10.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

A predictive model of redemption and liability in loyalty reward programs industry

Nsakanda A.L., M. Diaby and Y. Cao (2010), "A predictive model of redemption and liability in loyalty reward programs industry". 43th Annual Hawaii International Conferences on System Sciences, Koloa, Hawaii, January 5-8.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

Transportation problem-based heuristics for the set partitioning problem. A predictive model of redemption and liability in loyalty reward programs industry

Nsakanda A.L., M. Diaby and Y. Cao (2009), "Transportation problem-based heuristics for the set partitioning problem. A predictive model of redemption and liability in loyalty reward programs industry". INFORMS Conference, San Diego, USA, October 11-14.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

A typology framework of loyalty rewards programs

Cao Y. and A.L. Nsakanda (2009), "A typology framework of loyalty rewards programs". CORS-INFORMS Conference, Toronto, Ontario, June 14-17.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

Introduction to management science with spreadsheets, 1st Canadian Edition

Stevenson W.J., C. Ozgur and A.L. Nsakanda (2009), Introduction to management science with spreadsheets, 1st Canadian Edition. McGraw-Hill & Ryerson, 682 pages. (In Press)

Publication Type: Books

Area of Research: Management Science and Operations Research

A geometric programming model of the lot-scheduling problem with investments in setup reductions and process improvements

Cruz J.M., M. Diaby and A.L. Nsakanda (2008), "A geometric programming model of the lot-scheduling problem with investments in setup reductions and process improvements". Proceedings of the American Conference on Applied Mathematics, Cambridge, Massachusetts, March 24-26.

Publication Type: Papers in Refereed Conference Proceedings

Coping with revenue recognition in the loyalty reward programs industry

Diaby M. and A.L. Nsakanda (2008), "Coping with revenue recognition in the loyalty reward programs industry". American Conference on Applied Mathematics, Cambridge, Massachusetts, March 24-26.

Publication Type: Presentations at Conferences

A geometric programming model of the lot-scheduling problem with investments in setup reductions and process improvements

Cruz J.M., M. Diaby and A.L. Nsakanda (2008), "A geometric programming model of the lot-scheduling problem with investments in setup reductions and process improvements". American Conference on Applied Mathematics, Cambridge, Massachusetts, March 24-26.

Publication Type: Presentations at Conferences

Critical Issues in designing incentive schemes in supply chain contracts

Cao Y. and A.L. Nsakanda (2008), "Critical Issues in designing incentive schemes in supply chain contracts". ASAC Conference, Halifax, Nova Scotia, May 24-27.

Publication Type: Presentations at Conferences

Ensuring Population Diversity in Genetic Algorithm: A Technical Note with Application to the Cell Formation Problem

Nsakanda, A.L., W.L. Price, M. Diaby, and M. Gravel (2007), "Ensuring Population Diversity in Genetic Algorithm: A Technical Note with Application to the Cell Formation Problem". European Journal of Operational Research Society, 178, 634-638. (Available Online Since April 17, 2006 at <http://www.sciencedirect.com/science/journal/03772217>).

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research, Manufacturing, Production and Operations Management

Network Flow-Based Formulations of the Set Partitioning Problem

Nsakanda, A.L., M. Diaby, and A. Joseph (2007), "Network Flow-Based Formulations of the Set Partitioning Problem". ICCOPT II and MOPTA 2007 Conference, McMaster University, Hamilton, August 12-16.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

Large-Scale capacitated part-routing in the presence of process and routing flexibilities and setup costs

Diaby M. and A.L. Nsakanda (2006), "Large-Scale capacitated part-routing in the presence of process and routing flexibilities and setup costs". Journal of Operational Research Society. (available online since November 2, 2005 at <http://www.palgrave-journals.com/jors/journal/vaop/ncurrent/index.html>).

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research, Manufacturing, Production and Operations Management

Predictive modeling in reward loyalty programs: an aggregate inventory model

Nsakanda, A.L., M. Diaby, and Y. Cao (2006), "Predictive modeling in reward loyalty programs: an aggregate inventory model". CORS/OPTIMIZATION DAYS Conference, Montreal, Canada, May 8-10.

Publication Type: Presentations at Conferences

Area of Research: Production and Operations Management

Selecting production plans in a cellular manufacturing system with setup costs: A LaGrangean relaxation approach

Nsakanda, A.L., M. Diaby, and Y. Cao (2006), "Selecting production plans in a cellular manufacturing system with setup costs: A LaGrangean relaxation approach". CORS/OPTIMIZATION DAYS Conference, Montreal, Canada, May 8-10.

Publication Type: Presentations at Conferences

Area of Research: Production and Operations Management

Capacitated part-routing in the presence of process and routing flexibilities and setup costs

Nsakanda, A.L. (2006), "Capacitated part-routing in the presence of process and routing flexibilities and setup costs". INFORMS Conference, San Francisco (USA), November 13-16.

Publication Type: Presentations at Conferences

Area of Research: Production and Operations Management

Air cargo operations evaluation and analysis through simulation

Nsakanda, A.L., M. Turcotte, and M. Diaby (2004), "Air cargo operations evaluation and analysis through simulation". Winter Simulation Conference Proceedings, Washington (USA), December 5-8, 1790-1798.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research, Production and Operations Management

Selecting production plan in cellular manufacturing system with setup costs: formulation and solution methodology

Diaby M. and A.L. Nsakanda (2004), "Selecting production plan in cellular manufacturing system with setup costs: formulation and solution methodology". Decision Science Institute Conference Proceedings, Boston,

USA, November 24-26, 5011-5016.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management, Management Science and Operations Research, Production and Operations Management

Innovations in teaching decision support systems development summer workshops

Nsakanda, A. L. (2004), "Innovations in teaching decision support systems development summer workshops". , Amelia Island (USA), August 4th-7th.

Publication Type: Invited Speakers

Area of Research: Management Science and Operations Research

INFORMS first annual teaching management science workshop

Nsakanda, A. L. (2004), "INFORMS first annual teaching management science workshop". INFORMS, Marlboro (USA), July 8-11.

Publication Type: Invited Speakers

Area of Research: Management Science and Operations Research

La décomposition par les prix appliquée au problème de routage des pièces dans un système de fabrication cellulaire

Nsakanda, A.L., W.L. Price, and M. Diaby (2004), "La décomposition par les prix appliquée au problème de routage des pièces dans un système de fabrication cellulaire". FRANCORO IV Conference, Fribourg (Switzerland), August 18-21.

Publication Type: Presentations at Conferences

Area of Research: Manufacturing, Production and Operations Management

Air cargo operations evaluation and analysis through simulation

Nsakanda, A.L., M. Turcotte, and M. Diaby (2004), "Air cargo operations evaluation and analysis through simulation". Winter Simulation Conference, Washington (USA), December 5-8.

Publication Type: Presentations at Conferences

Area of Research: Production and Operations Management

Selecting production plan in cellular manufacturing system with setup costs: formulation and solution methodology

Diaby, M. and A.L. Nsakanda (2004), "Selecting production plan in cellular manufacturing system with setup costs: formulation and solution methodology". Decision Science Institute Conference, Boston, USA, November 24-26.

Publication Type: Presentations at Conferences

Area of Research: Management, Production and Operations Management

A simulation Study of the Passenger Check-in System at the Ottawa International Airport

Yuheng, C., A.L. Nsakanda, and I. Pressman (2003), "A simulation Study of the Passenger Check-in System at the Ottawa International Airport". Proceedings, Summer Computer Simulation Conference, Montréal, QC,

573-579.

Publication Type: Papers in Refereed Conference Proceedings

Area of Research: Management Science and Operations Research

Hybrid Genetic Approach for Solving Large-Scale Capacitated Cell Formation Problem with Multiple Routings

Nsakanda, A.L., M. Diaby, and W.L. Price (2003), "Hybrid Genetic Approach for Solving Large-Scale Capacitated Cell Formation Problem with Multiple Routings". INFORMS Conference, Istanbul, Turkey, July 6-10.

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

A multiple-Criteria Decision Analysis Approach for Evaluation Time-Dependent Strategy Alternatives for Forest Management

Nsakanda, A.L. and M. Diaby (2002), "A multiple-Criteria Decision Analysis Approach for Evaluation Time-Dependent Strategy Alternatives for Forest Management". Forest Engineering Conference, Pietermaritz, South Africa, July 2-3.

Publication Type: Presentations at Conferences

Area of Research: Management

Cellular Manufacturing System Design: A Price-directed Decomposition and Genetic Algorithm Approach

Nsakanda, A.L. (2000), "Cellular Manufacturing System Design: A Price-directed Decomposition and Genetic Algorithm Approach". CORS/SCRO Conference, Edmonton, AB, May 29-31. (Honourable Mention Award).

Publication Type: Presentations at Conferences

Area of Research: Management Science and Operations Research

Efficient solutions to cell-formation problem with multiple routings

Gravel, M., A.L. Nsakanda, and P. Wilson (1998), "Efficient solutions to cell-formation problem with multiple routings". European Journal of Operational Research, 109, 286-298.

Publication Type: Articles in Refereed Journals

Area of Research: Organizational Behaviour and HRM

Price-directive decomposition applied to route selection problem in multi-cell manufacturing systems

Nsakanda, A.L., W.L. Price, and M. Diaby (1998), "Price-directive decomposition applied to route selection problem in multi-cell manufacturing systems". INFORMS Conference, Montréal, QC, April 26-29.

Publication Type: Presentations at Conferences

Area of Research: Management

Probleme de selection de routage dans les systemes manufacturiers cellulaires : modelisation et resolution parla decomposition de Dantzig-Wolfe

Nsakanda, A.L. and W.L. Price (1998), "Probleme de selection de routage dans les systemes manufacturiers cellulaires : modelisation et resolution parla decomposition de Dantzig-Wolfe". ACFAS Conference, Québec City, QC, May 11-14.

Publication Type: Presentations at Conferences

Area of Research: Management

Modeling the performance of a kanban assembly shop

Price W.L., M. Gravel, A.L. Nsakanda, and F. Cantin (1995), "Modeling the performance of a kanban assembly shop". International Journal of Production Research, 33(4), 1171-1177.

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research

Route selection problem in multi-cell manufacturing systems

Nsakanda, A.L., W.L. Price, and M. Diaby (1996), "Route selection problem in multi-cell manufacturing systems". INFORMS Conference, Atlanta, GA, November 4-6.

Publication Type: Presentations at Conferences

Area of Research: Management

Modèle et algorithmme pour l'’allocation des ressources dans un système de fabrication cellulaire

Nsakanda, A.L. and W.L. Price (1996), "Modèle et algorithmme pour l'’allocation des ressources dans un système de fabrication cellulaire". Optimization Days, HEC, Montréal, QC, May 12-15.

Publication Type: Presentations at Conferences

Area of Research: Management

A genetic approach to the design of cellular manufacturing systems with alternative routing consideration

Nsakanda, A.L. and W.L. Price (1995), "A genetic approach to the design of cellular manufacturing systems with alternative routing consideration". INFORMS Conference, New Orleans, LA, October 29 - November 1.

Publication Type: Presentations at Conferences

Area of Research: Management

Formation des cellules manufacturières en présence de routage mul

Nsakanda, A.L. and W.L. Price (1995), "Formation des cellules manufacturières en présence de routage mul". FRANCORO, Mons, Belgium, June 11-14.

Publication Type: Presentations at Conferences

Area of Research: Management

A review of optimization Models of kanban-based production systems

Price W.L., M. Gravel, and A.L. Nsakanda (1994), "A review of optimization Models of kanban-based production systems". European Journal of Operational Research, 75, 1-12.

Publication Type: Articles in Refereed Journals

Area of Research: Management Science and Operations Research

Transferability of JIT techniques to SME

Nsakanda, A.L. and W.L. Price (1993), "Transferability of JIT techniques to SME". CORS/SCRO Conference, Halifax, NS, May 27-30.

Publication Type: Presentations at Conferences

Area of Research: Management, Small Business and Entrepreneurship

Modeling the performance of a kanban assembly shop

Price W.L., M. Gravel, A.L. Nsakanda, and F. Cantin (1992), "Modeling the performance of a kanban assembly shop". TIMS/ORSA - The Institute of Management Sciences / Operations Research Society of America, San Francisco, CA, Nov 2-4.

Publication Type: Presentations at Conferences

Area of Research: Management