

Principales publications et œuvres en recherche

Documents revus et publiés dans des revues savantes avec processus d'examen par les pairs

1. **Hajji, A.**, Gharbi, A. et Kenné, J. P., «Joint Production and Supply Control in Three Levels Flexible Manufacturing Systems», *Journal of Intelligent Manufacturing*, 21, 195-204, 2010, (CRSNG).
2. **Bererthaut, J.**, Gharbi, A., Kenné, J.P. et Boulet, J.F., «Improved joint preventive maintenance and hedging point policy», *International Journal of Production Economics*, 127(1), 2010, 60-72.
3. **Lavoie, P.**, Gharbi, A. et Kenné, J.P., «A comparative study of pull control mechanisms for unreliable homogenous transfer lines», *International Journal of Production Economics*, 124(1), 2010, 241-251, (Bourse ÉTS).
4. Nadeau, S., Kenné, J. P. et **Alexandru, P.**, «Modeling the Integration of occupational Health and Safety Risks with Operational Risks Associated with Autonomous and Multi-skilled Work Performed in Uncertain Environments», *Journal International sur l'Ingénierie des Risques Industriels (JI-IRI)*, 3(1), 17-31, 2010, (FQRNT, ÉTS).
5. Kenné, J.P., Gharbi, A. et Najid, M., «On the Integrated Production, Inventory, and Preventive Maintenance Problem in Manufacturing Systems with Backorder», *International Journal of Simulation and Process Modelling*, 5(4), 300-312, 2009, (fonds du prof. Kenné).
6. **Hajji, A.**, Gharbi, A., Kenné, J. P. et Hidehiko, Y., «Production and changeover control policies of a class of failure prone buffered flow-shop», *Production Planning & Control*, 20(8), 2009a, 785-800, 2009, (CRSNG).
7. **Lavoie, P.**, Kenné, J. P. et Gharbi, A., «Optimization of Production Control Policies in Failure Prone Homogenous Transfer Lines», *IIE Transactions*, 4 (3), 209-222, 2009, (CRSNG).
8. **Dehayem-Nodem, F.I.**, Kenné, J. P. et Gharbi, A., «Hierarchical Decision Making in Production and Repair/Replacement Planning With Imperfect Repairs Under Uncertainties», *European Journal of Operational Research*, 198, 173-189, 2009, (CRSNG).
9. **Boulet, J. F.**, Gharbi, A. et Kenné, J. P., «Multi-objective optimization in an unreliable failure-prone manufacturing system», *Journal of Quality and Maintenance Engineering*, 15 (4), 397-411, 2009, (Bourse ÉTS)
10. **Hajji, A.**, Gharbi, A. et Kenné J. P., «Joint optimal production / setup policies for families of products in unreliable supply chains», *Journal of Operations and Logistics*, 2(4), 1-16, 2009, (CRSNG).
11. **Hajji, A.**, Gharbi, A. et Kenné, J. P., «Joint replenishment and manufacturing activities control in a two stage unreliable supply chain», *International Journal of Production Research*, 47(12), 231–3251, 2009, (CRSNG).
12. Kenné, J. P. et **Nkeungoue, L.J.**, «Simultaneous Control of production and corrective maintenance rates of a failure-prone manufacturing system», *Applied Numerical Mathematics*, 58, 180-194. 2008, (CRSNG).
13. **Dehayem-Nodem, F. I.**, Kenné, J. P. et Gharbi, A., «Joint optimization of capacity expansion, Production and Maintenance strategies in Stochastic Manufacturing Systems», *Applied Mathematical Sciences*, 2 (5), 195-212, 2008, (CRSNG)..
14. **Lavoie, P.**, Kenné, J. P. et Gharbi, A., «Production control and combined discrete/continuous simulation modeling in failure prone transfer lines», *International Journal of Production Research*, 45(24), 5667-5687, 2007, (Bourse ÉTS)
15. **Seo, J.**, Venugopal, R. et Kenné, J. P., «Feedback Linearization Based Control of a Rotational Hydraulic Drive», *Control Engineering Practice*, 15, 1495-1507, 2007, (fonds du prof. Kenné).
16. Gharbi, A., Kenné, J. P. et **Beit, M.**, «Optimal Safety Stocks and Preventive Maintenance Periods in Unreliable Manufacturing Systems», *International Journal of Production Economics*, 107(2), 422-434, 2007, (CRSNG) .
17. Kenné, J. P., Gharbi, A. et **Beit, M.**, «Age-Dependent Production Planning and Maintenance Strategies in Unreliable Manufacturing Systems with Lost Sale», *European Journal of Operational Research*, 178, 408–420, 2007, (CRSNG) .

18. Gharbi, A., Kenné, J. P. et **Hajji, A.**, «Operational Level-Based Policies in Production Rate Control of Unreliable Manufacturing Systems With Setups», *International Journal of Production Research*, 44(3), 545-567, 2006, (CRSNG).
19. **Charlot, E.**, Nadeau, S. et Kenné, J. P., «Impact du contrôle du cadencage sur les risques d'accidents et les coûts de production», *Travail et Santé*, 22(3), 1-3, 2006, (fonds du prof. Kenné).
20. **Parent, L.**, Songmene, V. et Kenné, J. P., « A generalised model for optimising an end milling operation », *Production Planning and Control*, 18(4), 319–337, 2007, (CRSNG).
21. **Charlot, E.**, Kenné, J. P. et Nadeau, S., « Optimal production, maintenance and lockout/tagout control policies in manufacturing systems», *International Journal of Production Economics*, 107(2), 435-450, 2007, (fonds du prof. Kenné)..
22. **Kaddissi, C.**, Kenné, J. P. et Saad, M., «Identification and real-time control of an electrohydraulic servo system based on nonlinear backstepping», *IEEE/ASME Transactions on Mechatronics*, 12(1), 12–22, 2007, (FQRNT).
23. Gharbi, A. et Kenné, J. P., «Maintenance Scheduling and Production Control of Multiple-Machine Manufacturing Systems», *Computer and Industrial Engineering*, 48, 693-707, 2005, (fonds du prof. Kenné).

Documents soumis à un comité de lecture

1. **Dehayem-Nodem, F. I.**, Kenné, J. P. et Gharbi, A., «Simultaneous Control of Production, Repair/Replacement and preventive maintenance of Deteriorating Manufacturing Systems», *International Journal of Production Economics* (en revision, 2010).
2. **Kaddissi, C.**, Kenné, J. P. et Saad, M., «Interlaced Backstepping and Integrator Forwarding for Nonlinear Control of an Electrohydraulic Active Suspension», *Journal of Vibration and Control*, (en révision, 2010).
3. **Diep, T.T.**, Kenné, J. P. et Dao, T.M., «Feedback Optimal Control of Dynamic stochastic Two-Machine Flowshop with a finite buffer», *International Journal of industrial engineering computations* (en revision, 2010).
4. **Dehayem-Nodem, F. I.**, Gharbi, A. et Kenné, J. P., «Preventive maintenance and replacement policies for deteriorating production systems subject to imperfect repairs», *International Journal of Production Research* (en revision, 2010)
5. **Njike, A.**, Pellerin, R, Kenné, J. P., «Simultaneous control of maintenance and production rates of a manufacturing system with defective products», *Journal of Intelligent Manufacturing* (en revision, 2010)
6. **Dehayem-Nodem, F. I.**, Kenné, J. P. et Gharbi, A., « Production Planning and Repair/Replacement Switching Policy for Deteriorating Manufacturing Systems», *International Journal of Advanced Manufacturing Technology* (soumis en juillet 2010).
7. **Diep, T.T.**, Kenné, J. P. et Dao, T.M., «Optimal Control of Production, Preventive Maintenance, and Sale Age for a machine subject to failures», *European Journal of Industrial Engineering* (soumis en mars 2010)
8. **Angue, M.H.**, Kenné, J. P., Venugopal, R. et Belleau, C., «Feedback Linearization Based Position Control of an Electro-hydraulic Servo System with Supply Pressure Uncertainty», *IEEE Transaction on Control Systems Technology* (soumis en juin 2010)
9. **Angue, M.H.**, Kenné, J. P., Venugopal, R. et Belleau, C., «Feedback Linearization Based Position Control of an Electro-hydraulic Servo System with Supply Pressure Uncertainty», *ASME Journal of Dynamic Systems, Measurement and Control* (soumis en juillet 2010)
10. **Emami-Mehregani, B.**, Nadeau, S. et Kenné, J. P., «Lockout/tagout and Operational Risks in the Production Control of Manufacturing Systems with Passive Redundancy», *International Journal of Production Economics*. Financement, (soumis en février 2010).
11. Nadeau, S., Kenné, J. P. et **Badiane, A.**, «Optimizing Production While Reducing Machinery Lockout Circumvention Possibilities. Safety Science», (soumis en septembre 2010).

Livres et monographies sous presse

Coauteurs de 7 chapitres du livre de Nadeau, S., Petit, Y., Hallé, S., Morency, F. et Dufresne, L. (2010) « Sustainable development in mechanical engineering : Case studies in applied mechanics. Cambridge Scholars. 152 p. Financement (PSIRE-ÉTS) ».

- Bouzid, H., Nadeau, S. et Kenné, J. P., Chapter 1 : Gasket Test Rig.
- Bouzid, H., Kenné, J. P. et Nadeau, S., Chapter 2 : Log splitter.
- Bouzid, H., Nadeau, S. et Kenné, J. P. Chapter 4 : Designing a hydraulic car lift for small auto repair shops.
- Bouzid, H., Nadeau, S. et Kenné, J. P., Chapter 5 : Designing a boom lift.
- Kenné, J. P., Bouzid, H. et Nadeau, S., Chapter 6 : Designing an aerial work platform vehicle.
- Kenné, J. P., Nadeau, S. et Bouzid, H., Chapter 12 : Automated overhead crane
- Nadeau, S., Bouzid, H. et Kenné, J. P., Chapter 13 : Designing an airplane baggage belt loader.
- Kenné, J. P., Bouzid, H. et Nadeau, S., Chapter 14 : Designing a lift truck.

Contributions publiées à un ouvrage collectif/chapitres de livre (y compris les chapitres rédigés à titre d'invité ou les ouvrages collectifs résultant de conférences ou de symposiums)

1. **Dehayem-Nodem, F.I.**, Kenné, J. P. et Gharbi, A., «Preventive Maintenance and replacement policies for deteriorating manufacturing systems», *proceedings of the 1st IFAC Workshop on Advanced Maintenance Engineering*, Lisbon, Portugal, July 1-2, 2010
2. Kenné, J. P., Dejoux, P. et Gharbi, A., «Production control of a hybrid manufacturing/remanufacturing system in reverse logistics», *proceedings of the International Conference on Information Systems, Logistics and Supply Chain*, Casablanca, Morocco, April 13-17, 2010.
3. **Emami-Mehregani, B.**, Nadeau, S. et Kenné, J. P., «Integrating Lockout/tagout with Operational Risks: the Passive Redundancy Case», *proceedings of the conference Gesellschaft für Arbeitswissenschaft*, March 24-26, Darmstadt, Germany, 2010.
4. **Hajji, A.**, Gharbi, A., Kenné, J. P. et Pellerin, R., «Production control and replenishment strategy with multiple suppliers», *8ème Congrès International de Génie Industriel*, Juin 10-12, Bagnères de Bigorre, France, 2009.
5. **Angue, M.H.**, Kenné, J. P. et Venugopal, R., «Adaptive control of an electrohydraulic position servo system», *proceedings of the IEEE AFRICON Conference*, Nairobi, Kenya, September 23 - 25, 2009.
6. Nadeau, S., Kenné, J. P. et **Alexandru, P.**, «Modeling the Integration of Occupational Health and Safety Risks with Operational Risks Associated with Autonomous and Multi-skilled Work Performed in Uncertain Environments». *Proceeding of the 2nd International Conference on Industrial Risk Engineering*, May 13-15, Reims, France, 2009.
7. **Mansour, M.**, Nadeau, S and Kenné, J. P., (2009), «Management and Planning of Lockout Operations : The Case of a High Volume Packing Line», *proceedings of the conference GfA*, March, Dortmund, Germany, 547-551, 2009.
8. **Dehayem-Nodem, F. I.**, Kenné, J. P. et Gharbi, A., «A replacement policy of deteriorating manufacturing systems subject to imperfect repairs», *proceedings of the 3rd IEEE Conference on Industrial Electronics and applications (ICIEA)*, Singapore, June 3-5, 2008.
9. Kenné, J. P., Gharbi, A. et **Beit, M.**, «On the integrated production and preventive maintenance problem in manufacturing systems with backorder», *Proceedings of the 20th European Modeling & Simulation Conference*, Campora S. Giovanni (Italy), september 17-19, 2008, p. 744-753.
10. **Hajji, A.**, Gharbi, A., Kenné, J. P., «Operational level-based control policies in supply chain environment» *7e Conférence Internationale de MODélisation et SIMulation - MOSIM'08 - du 31 mars au 2 avril 2008 – Paris- France, 2008.*

11. **Diep, T.T.**, Kenné, J. P. et Dao, T.M., «Queuing Theory Based Hedging Point for Non-Markovian Manufacturing Systems», *Proceedings of the conference on systems and control*, Marrakech, Morocco, May 16-18, 2007
12. **Seo, J.H.**, Venugopal, R. et Kenné J. P., «Feedback linearization based control of a rotational hydraulic drive», *proceedings of the 7th IFAC Symposium on Nonlinear Control Systems (NOLCOS 2007)*, August 22-24, Pretoria, South Africa, 2007.
13. **Boulet, J.F.**, Gharbi, A., Kenné, J. P., «Amélioration d'une politique combinée de maintenance et de contrôle d'inventaire dans un contexte manufacturier», *7^{ème} Congrès international de génie industriel*, Trois-Rivière (Canada), 5-8 juin, 2007.
14. **Boulet, J.F.**, Gharbi, A., Kenné, J. P., «Multiobjective Optimization of Preventive and Corrective Maintenance Policies in Unreliable Manufacturing Systems», *International Conference on Industrial Engineering and Systems Management (IESM 2007)*, Beijing (China), May 30 - June 2, 2007.
15. **Hajji, A.**, Gharbi, A., Kenné, J. P «Joint Optimal production / setup policies for three family products in unreliable supply chains», *International Conference on Industrial Engineering and Systems Management (IESM 2007)*, Beijing (China), May 30 - June 2, 2007.
16. Kenné, J. P., «Hierarchical Control of Production and Maintenance Rates of a Two-Tandem-Machine System», *International Conference on Applied Simulation and Modelling*, Rhodes, Grèce, 26-28 juin 2006.
17. **Hajji, A.**, Gharbi, A., Kenné, J. P., «Joint Production and Supply Control in Three Levels Flexible Manufacturing Systems», *12th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2006*, 17-19 mai, Saint-Étienne France, 2006.
18. **Boulet, J.F.**, Gharbi, A., Kenné, J. P., «Production and Corrective Maintenance Rate Policy Improvement in an Unreliable Failure prone Manufacturing System », *35th International Conference On Computer and Industrial Engineering*, 19-22 juin Istanbul, Turkey, 2005
19. Gharbi, A., Kenné, J. P et **Boulet, J.F.**, «Amélioration des taux de production et de maintenance corrective d'un système de production », *6^{ème} Congrès International de Génie Industriel de Montréal*, 7-10 juin 2005, Besançon, France, 2005.
20. **Dehayem, N.F.I.**, Kenné, J. P. et Gharbi, A., « Capacity Expansion, Production and Maintenance Planning in Stochastic Manufacturing Systems» , *International Conference On Numerical Analysis and Applied Mathematics*, 16-20 septembre, Rhodes, Grèce, 2005.
21. **Kaddissi, C.**, Kenné, J. P. et Saad, M., «Position Control of an Electro-Hydraulic Servosystem : A Non-Linear Backstepping Approach», *Proceedings of the International Conference on Informatics in Control, automation and robotics*, 2004, Setubal, Portugal, 270-276.