

REFERENCES

- [1] A. Hax and D. Candea "Production and Inventory Management". Prentice Hall, Englewood Cliffs, 1984.
- [2] A. Ben-Salem, A. Gharbi, A. Hajji, Environmental issue in an alternative production-maintenance control for unreliable manufacturing system subject to degradation, *Int J Adv Manuf Technol*. DOI 10.1007/s00170-014-6454-7.
- [3] Chouikhi, H., Dellagi, S., & Rezg, N. (2012). Development and optimisation of a maintenance policy under environmental constraints. *International Journal of Production Research*, 50(13), 3612-3620.
- [4] Dobos, I., 1998. Production- inventory control under environmental constraints, *International Journal of Production Economics*, 56, 123- 131.
- [5] Dobos, I., 1999. Production strategies under environmental constraints in an Arrow-Karlin model. *International Journal of Production Economics*, 59, 337-340.
- [6] Dobos, I., 2001. Production strategies under environmental constraints: Continuous-time model with concave costs. *International Journal of Production Economics*, 71, 323- 330.
- [7] Dellagi, S., Rezg, N. and Uie, U., Preventive maintenance of manufacturing systems under environmental constraints. *International Journal of Production Research*, 45 (5), 1233, 2007.
- [8] Hajej Z., Dellagi S., Rezg N., "Optimal integrated maintenance/production policy for randomly failing systems with variable failure rate" *International Journal of Production Research*, vol. 49, Issue 19, p5695-5712, 2011.
- [9] Li, S., 2014. Optimal control of production-maintenance system with deteriorating items emission tax and pollution R&D investment. *International Journal of Production Research*, 52 (60), 1787-1807.

BIOGRAPHY

Bouslikhane Salim is a PHD student in the laboratory of industrial engineering, production and maintenance at the University of Lorraine, Metz. His main areas of research on the optimization of maintenance policies coupled to production and the development of methods and support the design and control tools in the production systems of goods and services.

Hajej Zied is an Associate professor at the University of Lorraine, Metz platform since September 2012. It operates research in the laboratory LGIPM Metz. After obtaining his doctorate at the University of Paul Verlaine - Metz in 2010, he was employed at the University of Metz as contract research engineer until August 2012. His main areas of research on the optimization of maintenance policies coupled to production and the development of methods and support the design and control tools in the production systems of goods and services. He is the author of numerous articles in international community of industrial engineering. Her teaching areas include modeling and organization of manufacturing and logistics systems, the practice of simulation, automation, and quality system production.

Nidhal Rezg is a professor at the University of Lorraine; he is a Doctor of Industrial Automatic from the National Institute of Applied Sciences (INSA) in Lyon in 1996. Accreditation to supervise research at the University of Metz in 2003. he was Professor at the Faculty of Engineering of the University of Moncton, New Brunswick Canada from 1997 to 1999 and Associate professor at the University of Metz until 2004, and currently holds the position of Professor of University. He is director of LGIPM laboratory since October 2006 and scientific responsible of the INRIA CusTom team from 2007 to 2011. His research interest is the optimization of maintenance policies coupled to production, the optimal control SED. He is the author of sixty papers in international journals, directors of 12 theses and 4 Accreditation to supervise research. Keywords researches are modeling, simulation and optimization of stochastic processes, reliability and maintenance and Petri nets.