



## **Sustainable Manufacture: Study and Analysis of the Combination Adoption of Cleaner Production and Lean Production Techniques**

G. V. Rizzo <sup>a</sup>, A. Batocchio<sup>b</sup>

*a. Universidade Estadual de Campinas, verarizzo@fem.unicamp.br*

*b. Universidade Estadual de Campinas, batocchi@fem.unicamp.br*

---

### **Abstract**

Currently the industries are deploying new technologies and strategies to enable the improvement of process and increase the productivity in the value chain, for this, recovery and reuse techniques was applied. Current techniques show many similarities, this converge to the elimination of waste and reuse this in the process, which generates operational advantages that allow increased the productivity. In this work, was presented and studied the different techniques applied to manufacture, including the concept of sustainability, through the analysis and combined adoption for cleaner production and lean production concepts, so that will be discussed for the application in production processes. These adoption present associated benefits in reducing impacts to the environment than approach the resources used in the process.

**Keywords:** *Cleaner production, lean production, tools articulation*

---