

## Discovering the link between a Japanese management system and performance: a statistical approach

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### ABSTRACT

Lean production originated in Japan and gained wide attention from its inception. It is defined as a multi-dimensional system with the central objective of waste elimination through practices that minimize supplier, customer and internal variability. It is believed that there is a link between Lean production and superior performance. In literature, however, the conclusions regarding Lean's impact on performance are not totally consistent. In this work, by using a sample of 329 Portuguese enterprises and partial least squares–structural equation modelling (PLS-SEM), we find that there is a positive impact of Lean on performance (operational, financial and market performance).



### SPEAKER

Paulo Sousa earned his Ph.D. degree in Interdisciplinary Mathematics (Mathematics and Economics) from the University of Warwick (UK). Since then, his research has always been in interdisciplinary territory, trying to apply quantitative and computational methods to solve economics and management problems. He has always been affiliated to the Faculty of Economics of the University of Porto since his first degree in Computer Science from the University of Coimbra (1992).