



## The 50th International Conference on Computers and Industrial Engineering

CIE50 | October 30–November 2, 2023

### **Special Session on Efficiency and Productivity Analytics in the Era of Uncertainty**

#### **Organizers**

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#### **Session Information**

The *COVID-19 crisis* led to an ongoing worldwide *economic* recession. Due to current tight budget limitations, the need for efficiency enhancement in business organisations has become a critical issue for survival, growth, and success under uncertainty. Although the efficiency and productivity analysis of organisations has captured an increased attention of academic researchers and policymakers for many decades, it is still challenging to evoke the results into practice and policy, mainly owing to the empirical and methodological complexities related to modelling the problem under different types of uncertainties. At the same time, monitoring, assessing, and improving the performance of organisations can result in positive stimuli towards higher economic growth.

This special session focuses on specific challenges, opportunities, and solutions in the areas of efficiency and productivity analytics to help researchers and practitioners make informed decisions in times of uncertainty.

Potential topics include, but are not limited to:

- Measuring, understanding, and improving the performance of logistics and supply chains
- Empirical studies for measuring the performance and productivity when sustainability matters (e.g., environmental efficiency, renewable energy, green supply chains)
- Theoretical developments in frontier analytical methods (e.g., DEA and SFA)
- Efficiency and productivity measurement in real-world applications observed in banking, energy, health, innovation, transportation and so on
- Uncertainty in data (e.g., fuzzy sets theory, stochastic modelling, and robust optimisation) and structural complexity in problems (e.g., network and dynamic structure)
- Addressing big data challenges in the field of performance assessment.

**Submission Deadline: May 30, 2023**

**Notification of Acceptance: July 5, 2023**

**Early Bird Registration Deadline: July 30, 2023**

**Final Paper Submission Deadline: August 15, 2023**