

# AI Patenting and Employment: Evidence from the Worlds' Top R&D Investors

by Alessandro Sterlacchini | Università Politecnica delle Marche

Abstract ID: 19

Inviato: 22/03/2022

Evento: XX Workshop Annuale SIEPI

Argomento: 16. Automazione, digitalizzazione, impresa

Parole chiave: Artificial intelligence, Employment changes, Large corporations, Patents

This paper considers 35 corporations which are among the biggest world's R&D investors and account for more than two thirds of AI patents worldwide. Their post-patenting performance is examined by focusing on employment changes and by comparing them with the outcomes of similar companies, operating in the same sectors and recording high levels of R&D expenditures as well, but not involved in AI patenting to a significant extent. The main finding is that substantial employment benefits for investing in AI inventions arise for the companies belonging to IT services, while in Computers & electronics and Automobiles the same investment is associated with employment reduction.