



ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΙΡΑΙΩΣ

ΣΧΟΛΗ ΧΡΗΜΑΤΟΟΙΚΟΝΟΜΙΚΗΣ ΚΑΙ ΣΤΑΤΙΣΤΙΚΗΣ

ΤΜΗΜΑ ΣΤΑΤΙΣΤΙΚΗΣ ΚΑΙ ΑΣΦΑΛΙΣΤΙΚΗΣ ΕΠΙΣΤΗΜΗΣ

ΠΡΟΣΚΛΗΣΗ

Σας προσκαλούμε στην ομιλία της **Prof. Renata Alcoforado, Department of Accounting and Actuarial Science, Universidade Federal de Pernambuco, Recife, Brazil**, η οποία θα διεξαχθεί διαδικτυακά την **Παρασκευή 13 Δεκεμβρίου 2024, ώρα 16:00**, με θέμα:

Socioeconomic benefits of the AtestMed programme in the Brazilian Welfare and Pension System

Abstract/Περίληψη: This study analyses forecast modeling with time series for INSS expenses related to the AtestMed programme within the Brazilian Welfare and Pension System. The AtestMed programme, a recent socioeconomic initiative by the Brazilian government, aims to manage benefit compensations due to temporary disability more efficiently. It is designed to ameliorate and shorten delays in the processing and payment of compensations, resulting in significant savings by reducing disability periods. The dataset used includes monthly monetary data from 2021 to 2023, adjusted for inflation according to the National Consumer Price Index (INPC, Índice Nacional de Preços ao Consumidor). Our model incorporates variables such as Mean Cost Delay, Cost Delay, and Mean Value of Initial Salary Payment, all related to the Social Security Temporary Disability Benefit. We examine the behavior of INSS costs with and without the AtestMed programme, noting that AtestMed was implemented in July 2023. The methodology employs six different time series models (Simple, Holt and Holt-Winters Exponential Smoothing, ARMA, ARIMA, and SARIMA) for the Mean Delay Cost variable. By comparing the outcomes for total costs with and without AtestMed, this approach provides a deeper understanding of temporal and seasonal trends in INSS spending, anticipates variations, and optimizes socioeconomic management. The forecasts generated from this study aim to enhance strategic decision-making within the scope of social security.

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Short Bio: Renata Alcoforado holds a PhD in Applied Mathematics to Economics and Management, awarded summa cum laude by ISEG - University of Lisbon, Portugal. She also earned a Bachelor's degree in Actuarial Sciences from the Federal University of Pernambuco (UFPE). Currently, she is a Presidential Advisor at INSS (National Social Security Institute) and a Professor in the Department of Accounting and Actuarial Sciences at UFPE. Dr Alcoforado is an active member of the Portuguese Actuarial Institute and a researcher at CEMAPRE - Center for Applied Mathematics to Economic Forecasting and Decision. She was a member of the Technical Group on Social Security of the Governmental Transition Office during the federal government transition from



2022 to 2023 and is a member of the Advisory/Editorial Board of (In)justice International – A Global Collective. Her research interests encompass risk and ruin theory, social security, pension funds, and insurance. Renata is a dual citizen of Brazil and Portugal.