Estimating Remaining Time of Business Processes with structural attributes of the traces

Título Estimating Remaining Time of Business Processes with structural attributes of the traces

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Tipo Comunicación para congreso

Fonte 11th European Symposium on Computational Intelligence and Mathematics, Toledo (Spain), 2019.

Abstract In this paper, we deal with one of the challenges in process mining enhancement: prediction of remaining times in a business process, which is a critical task for many organizations. Our approach consists of i) defining a number of attributes on the business logs that capture structural information from the traces, ii) extending the well-known annotated transition system model to annotate its states with the attributes values and iii) applying linear regression for predicting the remaining time of the process for each state using the attributes values. Experiments with ten well-known real-life datasets show that our approach outperforms the baseline model defined in [7] in the three metrics considered.

Palabras chave Business Process Management, Remaining Time estimation, Business intelligence

DESCARGAS

Referencia BibTex

PROXECTOS DE INVESTIGACIÓN

BIGBISC: Aportando Intelixencia aos procesos de negocio mediante soft computing en escearios Big Data

PROGRAMAS CIENTÍFICOS

Aprendizaxe automática