

Revisión sistemática de la literatura mediante el uso de Inteligencia Artificial. Gestión inmobiliaria con IA

Systematic Literature Review Using Artificial Intelligence: Real Estate Management with AI

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INTRODUCCIÓN.

Desde la aparición del concepto de Industria 4.0 en 2011, las tecnologías emergentes han transformado sectores clave, en el sector inmobiliario estas tecnologías se engloban con el término Proptech que proviene de la unión de las palabras Property y Technology cuyas actividades se centran en tres líneas de acción. En primer lugar, la posibilidad de acceder a más información, de mayor calidad y a menor coste; en segundo lugar, mayor eficacia en la realización de operaciones por reducción de tiempos y costes y, en tercer lugar, la mejora en los procesos de gestión como valoraciones y gestión de activos. Este trabajo muestra cómo realizar una revisión sistemática de la literatura utilizando herramientas de Inteligencia Artificial para dar respuesta a aspectos clave como las barreras y los impulsores de la implementación de estas tecnologías.

INTRODUCTION

Since the emergence of the Industry 4.0 concept in 2011, emerging technologies have transformed key sectors, in the real estate sector these technologies are encompassed by the term Proptech which comes from the union of the words Property and Technology whose activities are focused on three lines of action. Firstly, the possibility of accessing more information, of higher quality and at a lower cost; secondly, greater efficiency in carrying out operations by reducing time and costs; and thirdly, the improvement in management processes such as valuations and asset management. This paper shows how to perform a systematic literature review using Artificial Intelligence tools to answer key issues such as barriers and drivers for the implementation of these technologies. Translated with DeepL.com (free version)

OBJETIVO

Se realiza una revisión de la literatura sobre la aplicación de tecnologías relacionadas con la inteligencia artificial en los procesos de gestión del sector inmobiliario. El objetivo principal de esta revisión es proporcionar un marco teórico que facilite el avance en la investigación acerca de la viabilidad de implementar estas tecnologías en el sector. Se analizan, por una parte, los factores que pueden actuar como impulsores de la adopción de estas herramientas y, por otro, aquellos que pueden representar barreras o dificultades para su implementación. Estas barreras e impulsores se clasifican en dos categorías principales: internos y externos.

OBJECTIVE

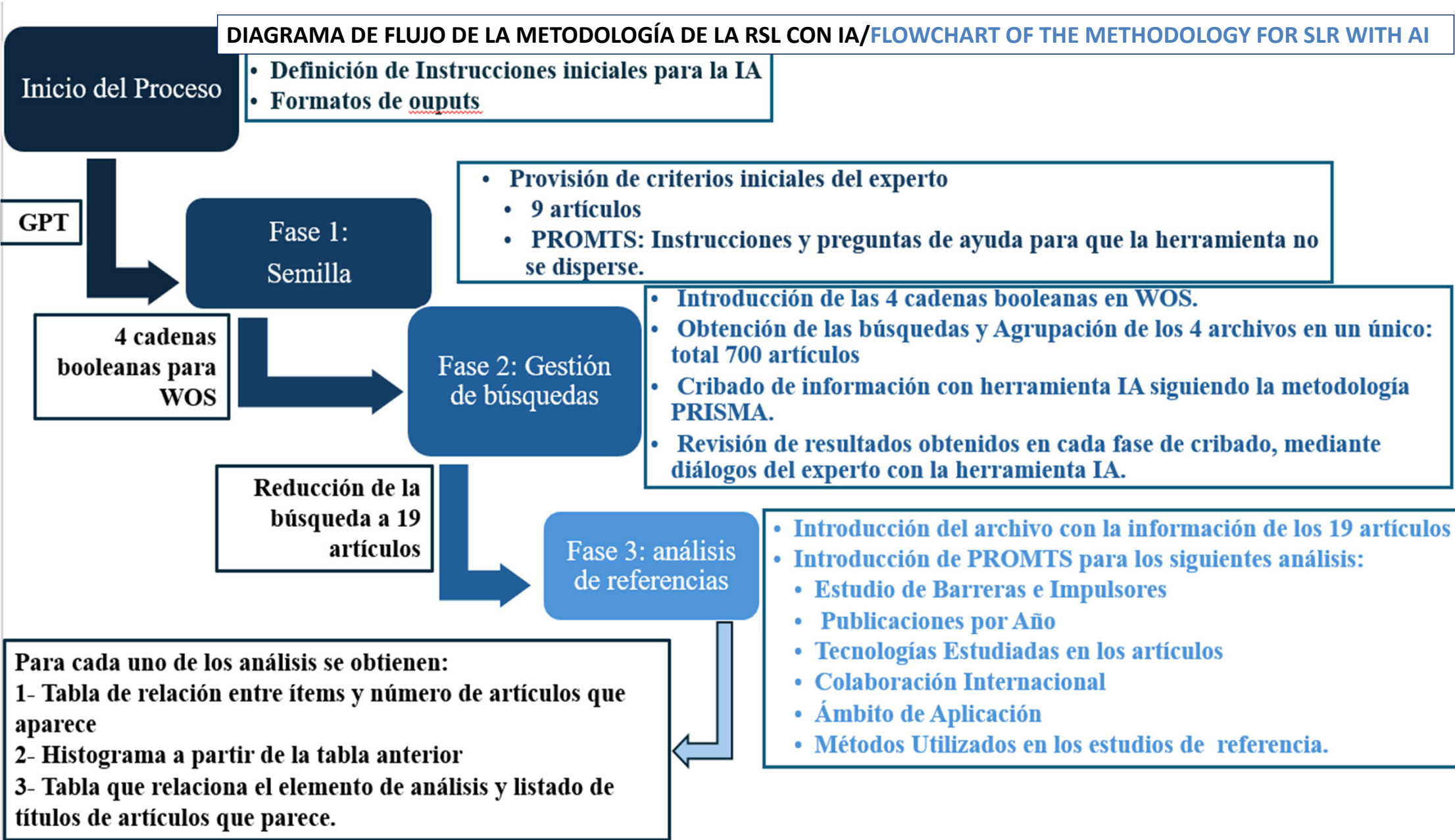
A review of the literature on the application of technologies related to artificial intelligence in the management processes of the real estate sector is carried out. The main objective of this review is to provide a theoretical framework to facilitate further research on the feasibility of implementing these technologies in the sector. It analyzes, on the one hand, the factors that may act as drivers for the adoption of these tools and, on the other hand, those that may represent barriers or difficulties for their implementation. These barriers and drivers are classified into two main categories: internal and external.

TABLA DE RESULTADOS/TABLE OF RESULTS

B. Cultural
Blockchain-enabled workflow operating system for logistics resources sharing in E-commerce logistics real estate service
HR Digital Transformation: Blockchain for Business
A Novel Risk-Perception Model Based on Blockchain for Supply Chain Finance of China Real Estate
EXAMINING THE FEASIBILITY OF INDUSTRY 4.0 FOR THE REAL ESTATE SECTOR WITH A LENS OF VALUE AND JOB CREATION
Ensuring construction material provenance using Internet of Things and blockchain: Learning from the food industry
An IoT-Enabled Sensing Device to Quantify the Reliability of Shared Economy Systems Using Intelligent Sensor Fusion Building Technologies
Is the AI revolution a real estate boon or bane?
B. Tecnológica
BIG DATA IN CONSTRUCTION WASTE MANAGEMENT: PROSPECTS AND CHALLENGES
Big data-assisted social media analytics for business model for business decision making system competitive analysis
Review on Computer Aided Sewer Pipeline Defect Detection and Condition Assessment
Game-like interactive environment using BIM-based virtual reality for the timber frame self-build housing sector
Visionary constructs: revolutionizing students internships through BIM and extended reality synergy
B. Económica
Perspective-Based Image-to-BIM Alignment for Automated Visual Data Collection and Construction Performance Monitoring
BIM- and blockchain-enabled Automatic Procurement System (BBAPS) removing relationship bias
A systematic literature review on the integration of Industry 4.0 technologies in sustainability improvement of transportation construction projects: state-of-the-art and future directions
BIM-Based Life Cycle Assessment of Buildings-An Investigation of Industry Practice and Needs
B. Regulatoria
Digital transformation to improve quality, efficiency and safety in construction of roads incorporating recycled materials
Blockchain in the built environment and construction industry: A systematic review, conceptual models and practical use cases
Automation in road distress detection, diagnosis and treatment
I. Innovación
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I. Sostenibilidad
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BIG DATA IN CONSTRUCTION WASTE MANAGEMENT: PROSPECTS AND CHALLENGES

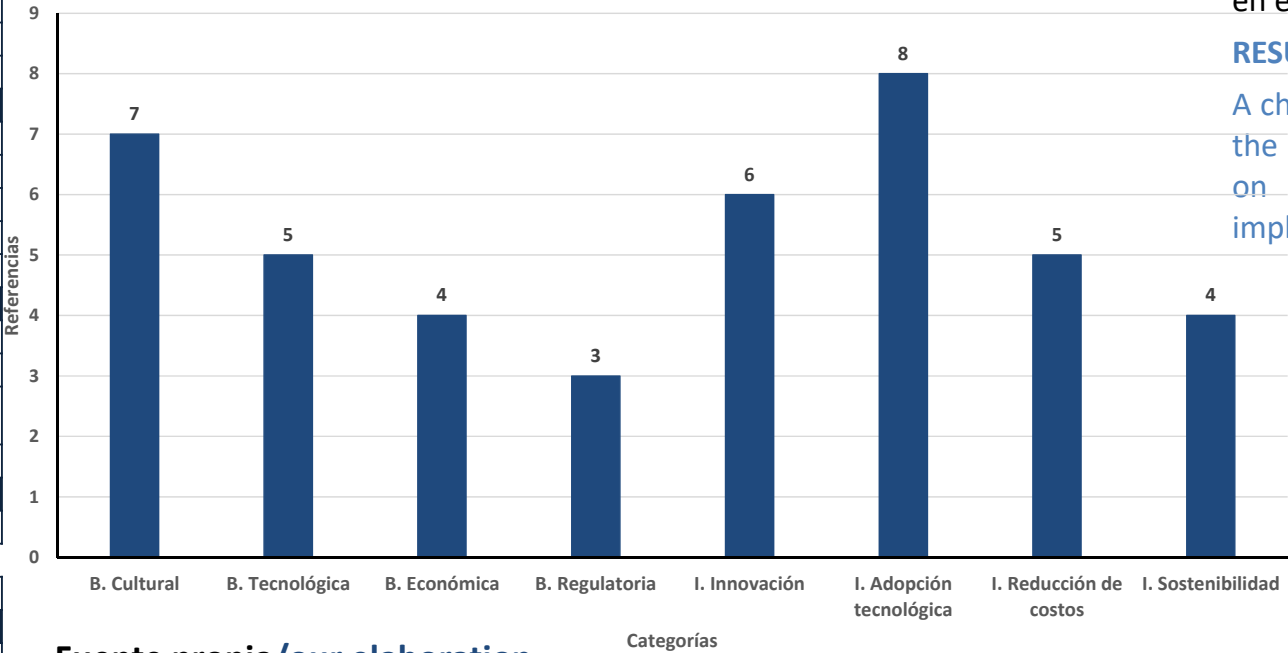
Fuente propia/our elaboration

METODOLOGÍA/METHODOLOGY



Fuente propia/our elaboration

RELACIÓN DE ARTÍCULOS SEGÚN BARRERAS E IMPULSORES RELATIONSHIP OF ARTICLES BASED ON BARRIERS AND DRIVERS



Fuente propia/our elaboration

CONCLUSIONES

Las conclusiones de este trabajo destacan cómo la integración de herramientas de inteligencia artificial en el proceso de revisión sistemática de literatura (SLR) ha permitido no solo optimizar la eficiencia y precisión del análisis, sino también ofrecer resultados más profundos y estructurados. A través de la SLR sobre identificación de barreras e impulsores clave, así como del estudio de tendencias, tecnologías y colaboraciones internacionales, se posibilita el avance en el conocimiento sobre el estado actual y futuro de la implementación de IA en la gestión inmobiliaria. La combinación de la metodología PRISMA con herramientas de IA y el conocimiento experto demuestra ser una estrategia poderosa para abordar de manera rigurosa y eficiente el análisis de literatura científica. Los resultados de esta investigación establecen una base sólida para estudios futuros en el sector inmobiliario y ofrecen un marco replicable para otras disciplinas que buscan aprovechar las capacidades de la inteligencia artificial en sus procesos de investigación.

CONCLUSIONS

The conclusions of this study highlight how the integration of artificial intelligence tools into the systematic literature review (SLR) process has not only optimized the efficiency and accuracy of the analysis but also delivered deeper and more structured results. Through the identification of key barriers and drivers, as well as the study of trends, technologies, and international collaborations, this approach provides a comprehensive view of the current and future state of AI implementation in real estate management. The combination of the PRISMA methodology with AI tools and expert knowledge has proven to be a powerful strategy for conducting rigorous and efficient analyses of scientific literature. The results of this research establish a solid foundation for future studies in the real estate sector and offer a replicable framework for other disciplines seeking to leverage the capabilities of artificial intelligence in their research processes.

RESULTADOS

Se ofrece una gráfica y tabla en las que se muestran los resultados derivados del proceso de SLR sobre las barreras e impulsores de la implementación de la IA en el sector.

RESULTS

A chart and table are presented, showing the results derived from the SLR process on the barriers and drivers for implementing AI in the sector.