



## SCHOLARLY PUBLICATIONS

### School of Social, Financial and Human Sciences

# KIIT Deemed to be University

**Journal Name:** AI & Society

**IF:** 3

**Title:** Assessing the impact of heat vulnerability on urban public spaces using a fuzzy-based unified computational technique

**Author:** Kumar, Rajeev; Mishra, Saswat Kishore

**Details:** April 2024

**Abstract:** Over the years, the urban heat vulnerability has evolved as a pressing global concern for researchers and policymakers alike. Numerous studies have aimed at mitigating the adverse effects of urban heat vulnerability on public health and safety. However, the critical task of selecting the most fitting indicator for urban heat islands in public spaces is not emphasized in the existing studies, considering the diverse indices available. Beyond identification, studies that delve into the prioritization of these indices and the determination of optimal variables along with their respective weights are scanty. The present study attempts to address these gaps in urban heat vulnerability research through the lens of natural solutions. The study employs a fuzzy analytical hierarchy approach to ascertain the weights of selected criteria, providing a nuanced understanding of the multifaceted factors influencing their applicability. Real-time impact estimation using the fuzzy technique for order of preference by similarity to ideal solutions enhances the practicality of the findings. The results reveal a set of pivotal characteristics crucial for constructing a robust heat vulnerability index, facilitating the prioritization of selected criteria. The implementation of this hybrid methodology culminates in a streamlined, precise, and practical tool for evaluating heat vulnerability in hot urban public spaces. These findings contribute valuable insights to the academic discourse and offer a tangible resource for policymakers and practitioners. The proactive approach provides a roadmap for addressing impending challenges related to urban heat vulnerability, marking a positive step toward creating resilient and sustainable urban environments.



**URL:** <https://link.springer.com/article/10.1007/s00146-024-01904-4>





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**Journal Name:** International Journal of Finance and Economics

**IF:** 2.9

**Title:** Market efficiency of the cryptocurrencies: Some new evidence based on price–volume relationship

**Author:** Sahoo P.K., Sethi D.

**Details:** Volume 29, Issue 2, Pages 1569 – 1580, April 2024

**Abstract:** Cryptocurrencies have emerged as an important investment avenue in the past few years. Investors are increasingly interested in these currencies amid surging financial returns. In this context, understanding market efficiency of cryptocurrency has become very crucial for investors and academicians. The price–volume framework is a popular approach in financial economics to understand the market efficiency of stocks in the stock markets. Therefore, this article examines the market efficiency of cryptocurrencies through price–volume framework to understand whether crypto market is predictable. Towards this objective, data on both return and trading volume (TV) of the top eight cryptocurrencies are used for the period 8 August 2015–20 October 2022. As an empirical method, both linear and non-linear causality models are used to validate the hypothesis. Our results confirm that TV cannot predict the cryptocurrencies' return, thereby validating the market efficiency hypothesis. Furthermore, we divide the sample according to the structural break period. The result from the post-break period analysis also confirms the presence of market efficiency in the recent period for all currencies, barring XRP, XMR and DASH.



**URL:** <https://onlinelibrary.wiley.com/doi/10.1002/ijfe.2744>

