

Launching the Journal of Resource Management and Decision Engineering: A New Frontier in Decision Science and Resource Allocation

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ABSTRACT

The launch of the Journal of Resource Management and Decision Engineering (JRMDE) marks a significant milestone in the fields of decision science and resource allocation. This inaugural issue not only sets the stage for a rigorous exploration of complex decision-making processes but also establishes a new open access platform for researchers, practitioners, and policymakers to disseminate their findings, innovations, and insights in a rapidly evolving discipline. At JRMDE, our vision is to bridge the gap between theoretical research and practical applications within the scope of resource management and decision engineering. The journal seeks to publish high-quality, peer-reviewed articles that contribute to the understanding of decision-making processes in the context of resource allocation, efficiency, and sustainability. JRMDE is committed to advancing knowledge and practice in the field through rigorous scholarship and a multidisciplinary approach. We look forward to engaging with the global research community to explore new frontiers in decision science and resource allocation. We believe that through collaborative efforts and shared knowledge, we can address some of the most challenging issues facing societies today. Join us in shaping the future of decision engineering and resource management. Submit your research, reviews, and insights, and contribute to a sustainable tomorrow. By fostering a comprehensive platform for debate, research, and innovation, JRMDE aims to play a pivotal role in shaping the future of resource management and decision-making processes around the world.

Keywords: Resource Management, Decision-Making, Peer-Review Journal, Open Access.

The launch of the Journal of Resource Management and Decision Engineering (JRMDE) marks a significant milestone in the fields of decision science and resource allocation. This inaugural issue not only sets the stage for a rigorous exploration of complex decision-making processes but also establishes a new open-access platform for researchers, practitioners, and policymakers to disseminate their findings, innovations, and insights in a rapidly evolving discipline.

At JRMDE, our vision is to bridge the gap between theoretical research and practical applications within the scope of resource management and decision engineering. The journal seeks to publish high-quality, peer-reviewed articles that contribute to the understanding of decision-making processes in the context of resource allocation, efficiency, and sustainability.

Resource management encompasses a broad range of disciplines, and decision engineering integrates these diverse insights to solve real-world problems. The scope of JRMDE is thus intentionally broad, covering areas from environmental resource management to technological advancements in decision support systems.

Modern challenges in resource management require an interdisciplinary approach. For example, the integration of smart pavement data with decision support systems has shown significant potential for enhancing infrastructure management (Amândio et al., 2021). Similarly, the application of fuzzy-topsis methods in managing siliceous concrete materials highlights the need for innovative approaches to sustainability (Falqi et al., 2019).

Environmental monitoring, as discussed by Fancy et al. (2008), plays a crucial role in the management of natural resources, offering essential data that can be used to inform and refine decision-making processes (Fancy et al., 2008). These examples underscore the complex interplay between various fields and the necessity of an integrated approach, which JRMDE aims to foster.

Decision engineering is an evolving field that increasingly relies on advanced methodologies to handle complex and dynamic systems. Stojčić et al. (2019) illustrate the application of multi-criteria decision-making (MCDM) methods in sustainability engineering, emphasizing the role of these methods in enhancing decision quality (Stojčić et al., 2019).

Furthermore, Wang (2022) discusses the integration of artificial intelligence in building project management, providing a glimpse into how AI can revolutionize decision

support systems by offering more intelligent, adaptive solutions (Wang, 2022). These innovations are crucial for advancing the field and will be a central focus of the journal.

The challenge of sustainability in resource management continues to be a pressing global issue. The systematic reviews by Phan et al. (2016; 2019) on the application of Bayesian belief networks in water resource management illustrate the power of probabilistic modeling in understanding and mitigating the impacts of climate change and socio-economic stressors on water resources (Phan et al., 2016; Phan et al., 2019).

Lisse (2014) explores the dynamics of outsourcing services in design-build projects, providing valuable insights into the economic and operational aspects of project management that are vital for sustainable practices (Lisse, 2014).

As we launch this journal, we invite contributions that push the boundaries of current research and offer new perspectives and solutions to the complex issues of decision engineering and resource management. We are particularly interested in articles that:

- Employ innovative methodologies in decision science and human resource management.
- Offer insights into sustainable practices and technologies.
- Analyze the impact of policy and governance on resource allocation.
- Explore the interface between human decision-making and technological systems.

The Journal of Resource Management and Decision Engineering is committed to advancing knowledge and practice in the field through rigorous scholarship and a multidisciplinary approach. We look forward to engaging with the global research community to explore new frontiers in decision science and resource allocation. We believe that through collaborative efforts and shared knowledge, we can address some of the most challenging issues facing societies today.

Join us in shaping the future of decision engineering and resource management. Submit your research, reviews, and insights, and contribute to a sustainable tomorrow.

By fostering a comprehensive platform for debate, research, and innovation, JRMDE aims to play a pivotal role in shaping the future of resource management and decision-making processes around the world.

Authors' Contributions

Not applicable.

Declaration

In order to correct and improve the academic writing of our paper, we have used the language model ChatGPT.

Transparency Statement

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Declaration of Interest

The authors report no conflict of interest.

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Ethics Considerations

None.

References

- Amândio, M., Parente, M., Neves, J., & Fonseca, P. (2021). Integration of Smart Pavement Data With Decision Support Systems: A Systematic Review. *Buildings*. <https://doi.org/10.3390/buildings11120579>
- Falqi, I. I., Ahmed, M., & Mallick, J. (2019). Siliceous Concrete Materials Management for Sustainability Using Fuzzy-Topsis Approach. *Applied Sciences*. <https://doi.org/10.3390/app9173457>
- Fancy, S. G., Gross, J. E., & Carter, S. L. (2008). Monitoring the Condition of Natural Resources in US National Parks. *Environmental Monitoring and Assessment*. <https://doi.org/10.1007/s10661-008-0257-y>
- Lisse, S. D. (2014). Applying System Dynamics for Outsourcing Services in Design-Build Projects. *Journal of Project Program & Portfolio Management*. <https://doi.org/10.5130/pppm.v4i2.3196>
- Phan, T. D., Smart, J. C. R., Capon, S. J., Hadwen, W. L., & Sahin, O. (2016). Applications of Bayesian Belief Networks in Water Resource Management: A Systematic Review. *Environmental Modelling & Software*. <https://doi.org/10.1016/j.envsoft.2016.08.006>
- Phan, T. D., Smart, J. C. R., Stewart-Koster, B., Sahin, O., Hadwen, W. L., Dinh, L. T., Tahmasbian, I., & Capon, S. J. (2019). Applications of Bayesian Networks as Decision Support Tools for Water Resource Management Under Climate Change and Socio-Economic Stressors: A Critical Appraisal. *Water*. <https://doi.org/10.3390/w11122642>

- Stojčić, M., Zavadskas, E. K., Pamučar, D., Stević, Ž., & Mardani, A. (2019). Application of McDm Methods in Sustainability Engineering: A Literature Review 2008–2018. *Symmetry*. <https://doi.org/10.3390/sym11030350>
- Wang, J. (2022). Intelligent Decision Support System for Building Project Management Based on Artificial Intelligence. *Journal of Physics Conference Series*. <https://doi.org/10.1088/1742-6596/2665/1/012022>