BMF CP53: Perceptions of local issues and water conservation behaviors

AISDL Team

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“Nightingale feeds himself sumptuously, gets thirsty, then goes inside the cage. Just when he is drinking the water, the door shuts down. A once-free bird is now a prisoner.”
— In “Dream”; The Kingfisher Story Collection [1].

1. Project description

1.1. Main objectives

The current study is conducted to examine whether the residents’ concerns about local issues affect their water conservation behaviors.

Findings from this study are expected to contribute to promoting the eco-surplus culture for achieving the environmental semiconducting principle [2].

1.2. Materials

The mindsponge theory will be used for conceptual development, and Bayesian Mindsponge Framework (BMF) analytics will be used for statistical analysis on a dataset of 1831 water utility residential account holders in Albuquerque, New Mexico, USA [3]. The bayesvl R package, aided by the Markov chain Monte Carlo (MCMC) algorithm, will be employed for statistical analyses [2,4]. For more information on BMF analytics, portal users can refer to [2]. Data and code snippets of this initial analysis were deposited at https://osf.io/mtb6u/.

1.3. Main findings
The analysis shows that residents’ concern about drought/water shortage in Albuquerque/Bernalillo County is positively associated with their number of water conservation behaviors. Population growth and development concern also positively affects the number of water conservation behaviors, but the effect is weakly reliable. In contrast, Concerns about water quality and water bills are negatively associated with the number of water conservation behaviors (see Figure 1).

Figure 1. Estimated coefficients

2. Collaboration procedure

Portal users should follow these steps for registering to participate in this research project:

1. Create an account on the website (preferably using an institution email).
2. Comment your name, affiliation, and your desired role in the project below this post.
3. Patiently wait for the formal agreement on the project from the AISDL mentor.

If you have further inquiries, please contact us at aisdl_team@mindsponge.info

If you have been invited to join the project by an AISDL member, you are still encouraged to follow the above formal steps.
All the resources for conducting and writing the research manuscript will be distributed upon project participation.

AISDL mentor for this project: Minh-Hoang Nguyen.

AISDL members who have joined this project: Quan-Hoang Vuong.

*Implementation: The research project strictly adheres to scientific integrity standards, including authorship rights and obligations, without incurring an economic burden at participants’ expenses.

References


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