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OPTIMIZING POLLUTION DUE TO ARISING OF CARBON DURING PRODUCTION-DISTRIBUTION IN SUPPLY CHAIN BY USING FUZZY INFERENCE SYSTEM

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This paper presents a Mamdani fuzzy inference system developed in MATLAB to opti-mize air pollution levels caused by carbon emissions during production-distribution processes by generated four key carbon-emitting input variables which are categorized into Low, Medium, and High intensity levels by using triangular membership functions and one output variable i.e. "Pollution level due to carbon" is categorised into Quite Low, Low, Medium, High, and Quite High. The system uses IF-THEN rules for opti-mizing the Pollution level due to carbon.

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