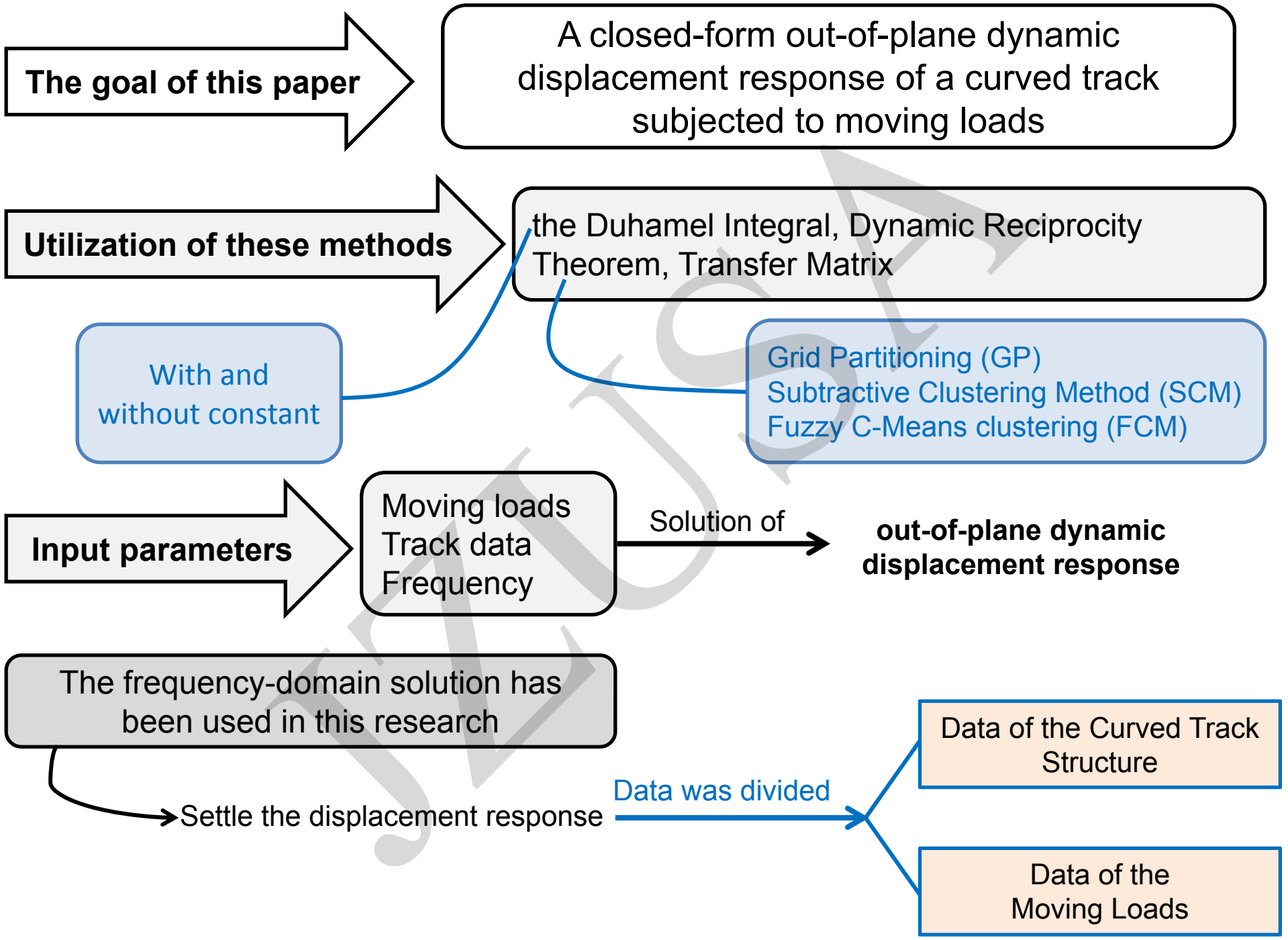
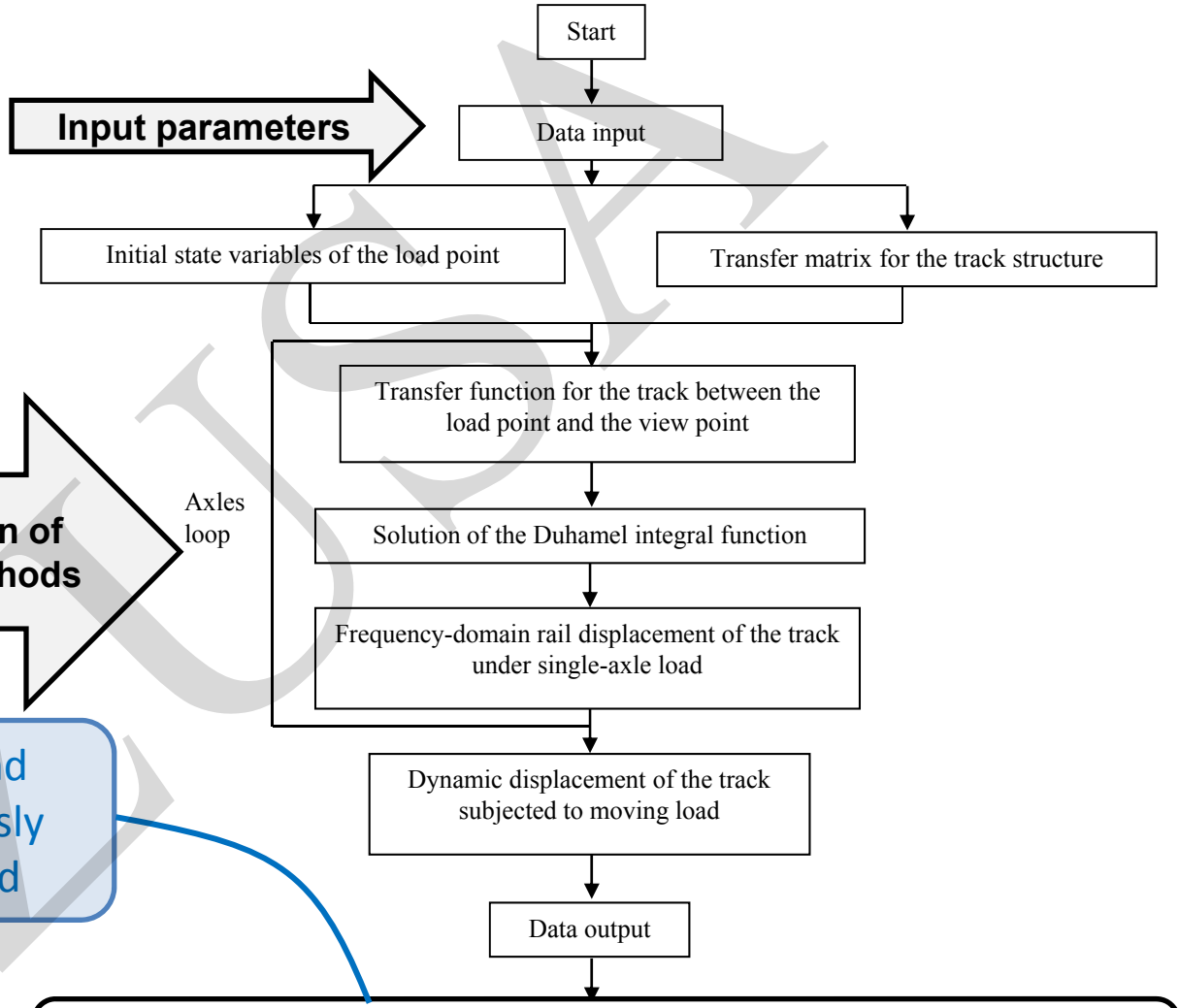
Analytical study on the dynamic displacement response of a curved track subjected to moving loads

JZUSA

Citation: Kefei LI, Weining LIU, Valeri Markine , Zhiwei HAN, 2013. Analytical study on the dynamic displacement response of a curved track subjected to moving loads. *Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering)*, 14(12):867-879. [doi:10.1631/jzus.A1300225]


The goal of this paper
A closed-form out-of-plane dynamic displacement response of a curved track subjected to moving loads
Utilization of these methods
the Duhamel Integral, Dynamic Reciprocity Theorem, Transfer Matrix
With and without constant
Grid Partitioning (GP)
Subtractive Clustering Method (SCM)
Fuzzy C-Means clustering (FCM)
Input parameters
Moving loads
Track data
Frequency
Solution of
out-of-plane dynamic displacement response
The frequency-domain solution has been used in this research
Settle the displacement response
Data was divided
Data of the Curved Track Structure
Data of the Moving Loads

This method has been used in the research on the straight track subjected to moving loads, but not the curved track



The Duhamel Integral, Dynamic Reciprocity Theorem, Transfer Matrix

Utilization of these methods

Simple and continuously supported

The goal of this paper

out-of-plane dynamic displacement response of a curved track subjected to moving loads

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