

DEVELOPMENT OF THE FORECASTING ALGORITHM OF URBAN GAS USAGE

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ABSTRACT

The ICIM(Innovation Center for Industrial Mathematics) of NIMS(National Institute for Mathematical Sciences) has been at the forefront of discovering and solving mathematical problems that are encountered by industry in practice.

SK E&S is a company that requested industrial problem in 2019 and supplies urban gas to about 4 million households nationwide. Therefore, the company checks the amount of gas usage every month and charges the fee. However, due to meter failure or due to billing error in accordance with customers' not participating in the meter reading, customer complaints about the current method of meter reading are continuously arising. In order to solve this problem, they requested the ICIM to solve this problem.

In this presentation, I would like to explain the data preprocessing and forecasting algorithm of urban gas usage.