

マニュアルドリブン



データドリブン

技術からの発想ではなく、課題からの発想

KEYWORD

** CONFIDENTIAL **

Please observe sure the following items.

(1) that do not replicate. (2) that you do not disclose to any third party. (3) that you do not use for other specific purposes.

計画
設計
調達
建設
運用
メンテナンス
...

課題の1つに

AI

有効な補完ツール

人材確保

社会インフラでは...

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section3

AI適用例

人工知能

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適用事例

- ・ ガス需要予測
- ・ 電力需要予測
- ・ 水道需要予測
- ・ 冷温熱需要予測
- ・ 河川水位予測
- ・ ダム流入量予測
- ・ 下水流入量予測
- ・ パイプライン腐食量予測
- ・ プロセス発生ガス量予測
- ・ 太陽光発電予測
- ・ ソフトウェア流量計

- ・ ガスパイプライン最適運用
- ・ 地域冷暖房最適運用
- ・ 下水処理最適運用
- ・ 配湯管網最適運用
- ・ ごみ焼却設備最適運用

- ・ プラント音響診断
- ・ 地中埋設物探査
- ・ 構造物劣化判定

- ・ 貯留関数パラメータ最適化
- ・ 流送パラメータ最適化
- ・ 気象予報モデル最適化
- ・ 外国為替取引ルール最適化
- ・ ヒトゲノムネットワーク解析
- ・ 待ち行列予測



winmuse.jp



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ライフライン安定運用のためには 高精度な需要予測が不可欠

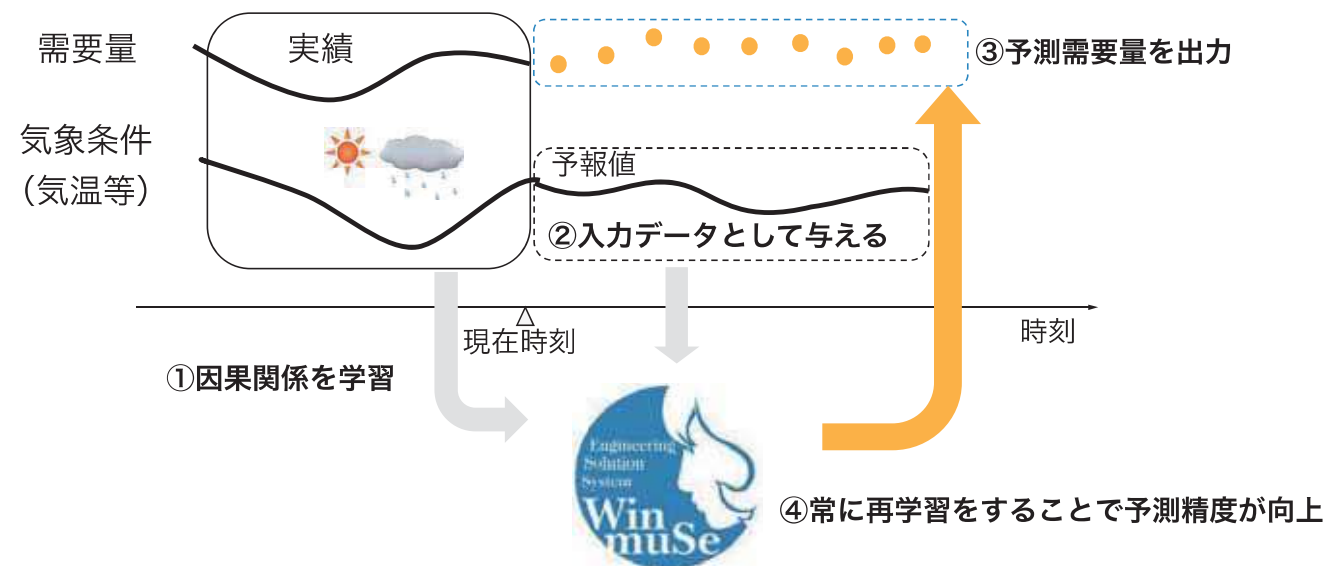
ガス需要予測

水道需要予測



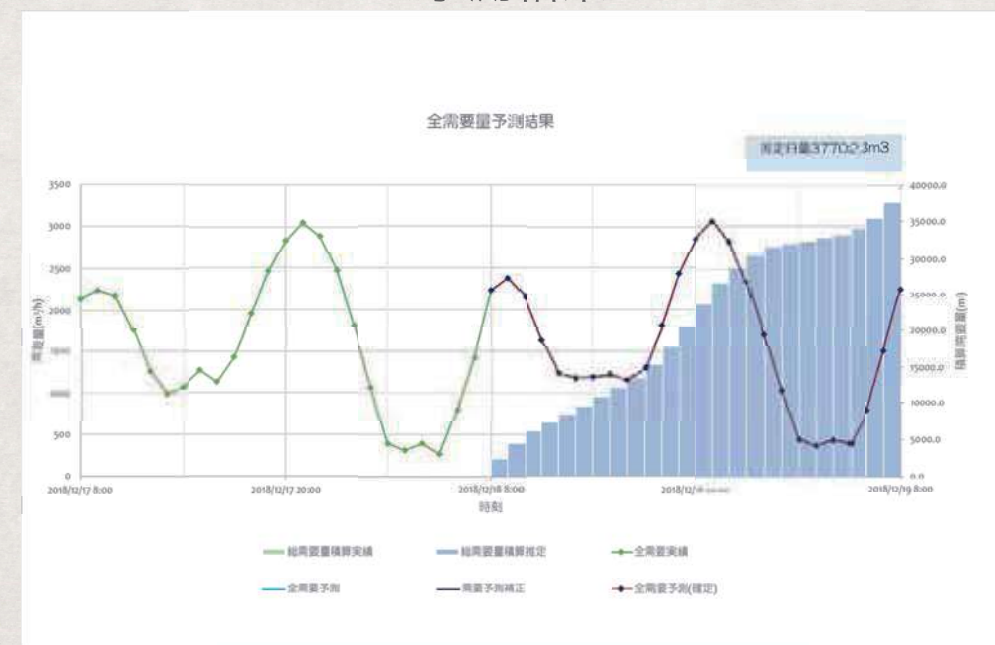
天気と需要の間に因果関係？

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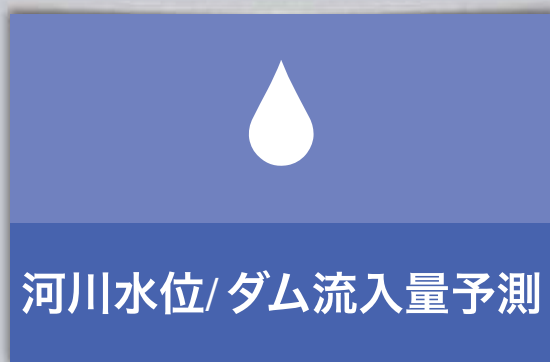


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予測結果



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河川流域の安心/安全確保のためには 正確な降雨流出予測が不可欠

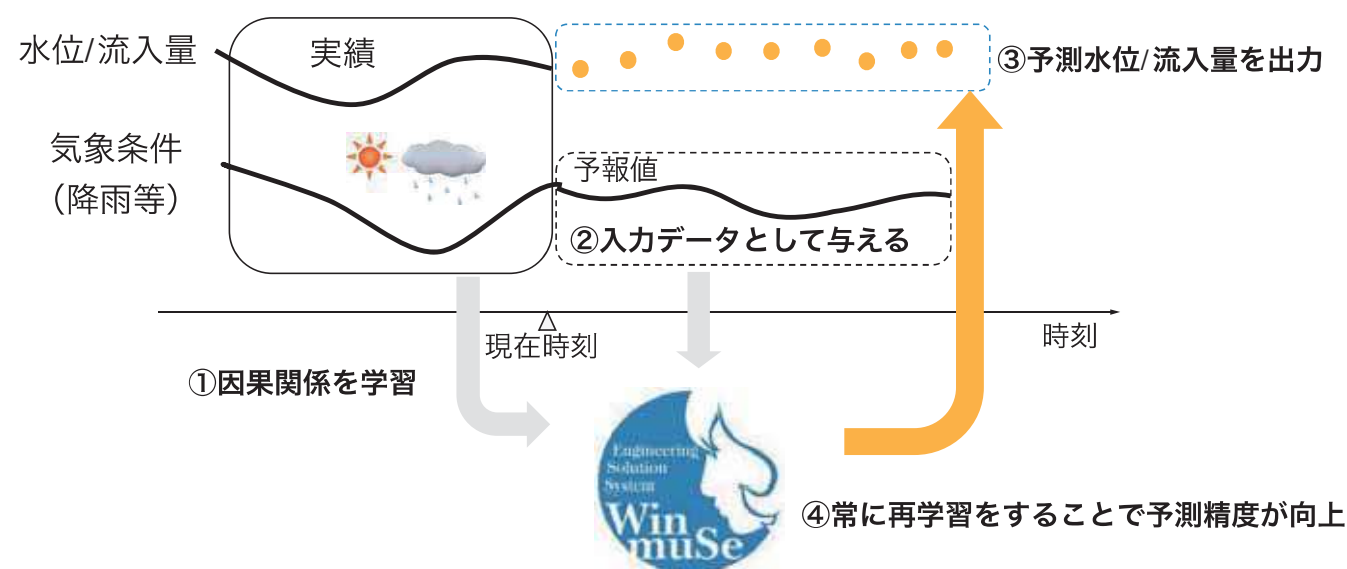
河川水位予測

ダム流入量予測



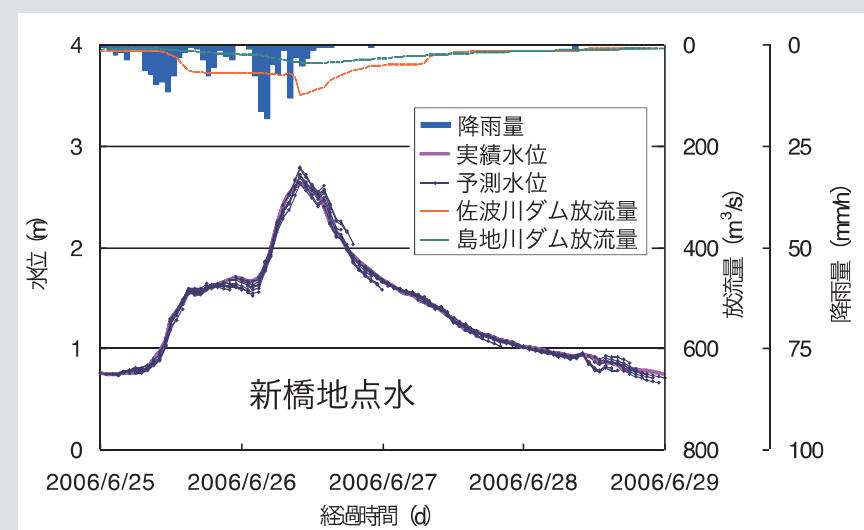
物理シミュレーションは困難...

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河川水位



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