

Predictive Relationship: Difference Regression

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1 Trading Strategy Description

This trading rules regresses the 1-day price changes seen historical against the prior day's % change of the research series.

2 Rule Parameters

Below is a table summarizing the parameters specific to this trading rule.

Parameter Name	Default Value	Description	Symbol
Difference Coefficient	0.1	Multiplier for regression.	k_1
Constant Coefficient	0.1	Initial constant for regression.	k_2

3 Equation

Below is the equation which governs how this specific trading rule calculates a trading position.

$$z_t = k_1 * \left(\frac{R_t}{P_{t-1}} - 1\right) + k_2 \tag{1}$$

where:

 z_t is the portfolio allocation at time t

 R_t : Research value at time t

 P_{t-1} : Price value at time t-1

 k_1 : Difference coefficient

 k_2 : Constant coefficient

4 Glossary

- Bullish: Positive outlook on the market. Expectation of positive returns.
- Bearish: Negative outlook on the market. Expectation of negative returns.
- **Allocation:** The allocation is the fractional amount of the portfolios value used to determine the size of the trading position.
- Parameter: Value used by the trading rule in the calculation for trading position
- Trading Rule: Strategy to determine when to buy, hold or sell a position.

Further Links

- 1. InferTrade: https://www.infertrade.com
- $2.\ \ Privacy\ Policy/Legal\ notice:\ {\tt https://www.infertrade.com/privacy-policy}$
- 3. InferStat Ltd: https://www.inferstat.com