

General

Basic Style Factors

Size, Growth, Value, Activity, Volatility and Momentum

Innovative Factor Mining

following a standardized process to dynamically mine innovative factors

Factor Tracking

Monthly tracking of the risk, crowding and performance of various style factors

Diversified Factor Indices

A complete series of single-factor, multi-factor and dynamic factor allocation indices

Sino-Securities Index Information Service (Shanghai) Co., Ltd

Address: Room 1006, UC Tower, Pudong

New District, Shanghai

Phone: 021-5339-7050

Fax: 021-5339-7053

E-mail: ssi@chindices.com

Overview

In addition to the market and industry, the factor is an important dimension to measure the performance of stock prices, and it is also an important basis for constructing and analyzing investment portfolios and managing portfolio risks. We are committed to tracking and researching the style factors suitable for the A-share market, and providing relevant data services, analysis services and factor indices.

The SNSI factor system includes two types of factors. The first type of factors are the basic standardization factors, including size, activity, volatility, value, growth, momentum and quality. These factors are mainly used for market analysis, indices, factor crowding model, etc. The second type of factors are innovative factors, which are mainly derived from the conclusions obtained from economic theory or statistical empirical evidence. These factors are still expanding and are mainly used for indices, such as price factors, skewness factors, business risk factors, etc.

SNSI Basic Factors

Style Factor	Definition	Indicator	Style Factor	Definition	Indicator
Size	Market capitalization of the listed companies	Total market capitalization	Volatility	The degree of volatility of stock prices	1 month Volatility
		Free float market capitalization			3 month Volatility
Growth	The growth of the company	ROE_TTM			6 month Volatility
		YoY growth rate of net profit TTM	Momentum	Change in stock price over a period of time	1 month Price Return
		YoY growth rate of revenue TTM			3 month Price Return
		QoQ growth rate of net profit TTM			6 month Price Return
		QoQ growth rate of sales			Alpha Momentum
Value	Whether the stock price is cheap or expensive	E/P_TTM			Residual Momentum
value		B/P_MRQ	Quality	The financial quality of the company	Leverage
	The activity of the stock trading	1 month Turnover rate			Solvency
Activity		3 month Turnover rate			ROA
		6 month Turnover rate			Stability of ROE
Dividend	Reflect the company's dividends payout	1Y Dividend Yield			3Y Net Profit Growth rate
		Payout Ratio			Earnings Quality

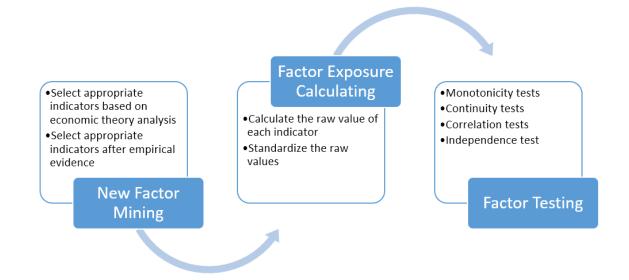
Example: E/P_TTM = EPS_TTM / Price

Volatility = $std(r_t, r_{t-1}, r_{t-2}, ..., r_{t+1})$, where r_{t-1} is daily return /trading days prior to day t, t is the date of factor calculation Earnings Quality = Net Cash Flow from Operating Activities TTM / Net Income Attributed to Shareholders TTM

Step1	Step2	Step3	Step4
Calculate the raw value of the indicator for the constituent factor	Standardize raw values of indicators. Standardization Methods: The indicators are sorted from largest to smallest and then mapped to the normal distribution by the inverse cumulative distribution function of the normal distribution	The factor values are calculated by summing the standard values of the indicators by equal weights	Standardize the factor values in the same way

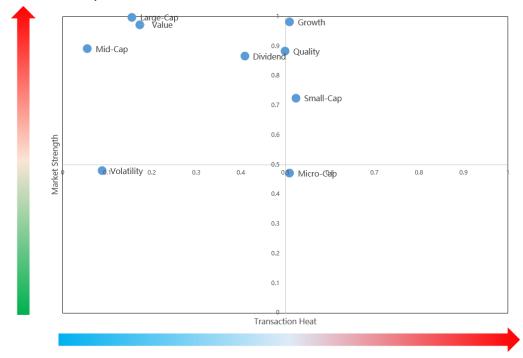
Innovative Factor Mining Steps

Following the standardized process of theoretical analysis, factor calculation, validity testing, performance disassembly, and factor tracking continuity to mine innovative factors.



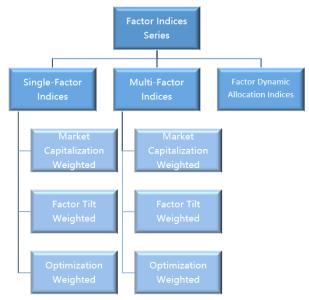
Factor Crowding

Based on the results of domestic studies and the actual situation of the domestic market, we chose the following two dimensions or three indicators to measure the Factor Crowding: Transaction Heat (factor portfolio volatility, factor portfolio correlation) and Market Strength (average momentum of the factor portfolio).



Factor Indices System

The factor indices system involves three major series, which are single-factor indices, multi-factor indices and factor dynamic allocation indices, among which, the factor dynamic allocation indices shall be constructed on the basis of single-factor indices and multi-factor indices.



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