

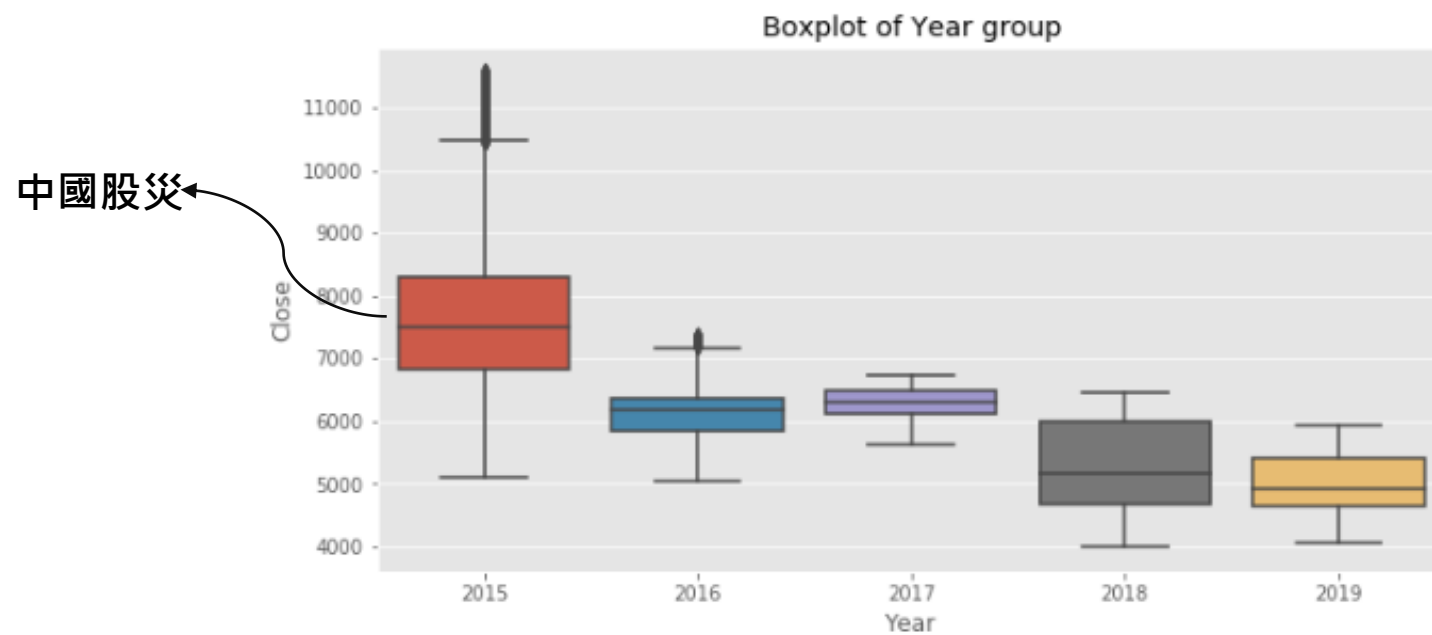
中證500資料分析

組員: 林以涵 曹妤綺 謝丞剛 許仲廷
Mentor: 劉百耀

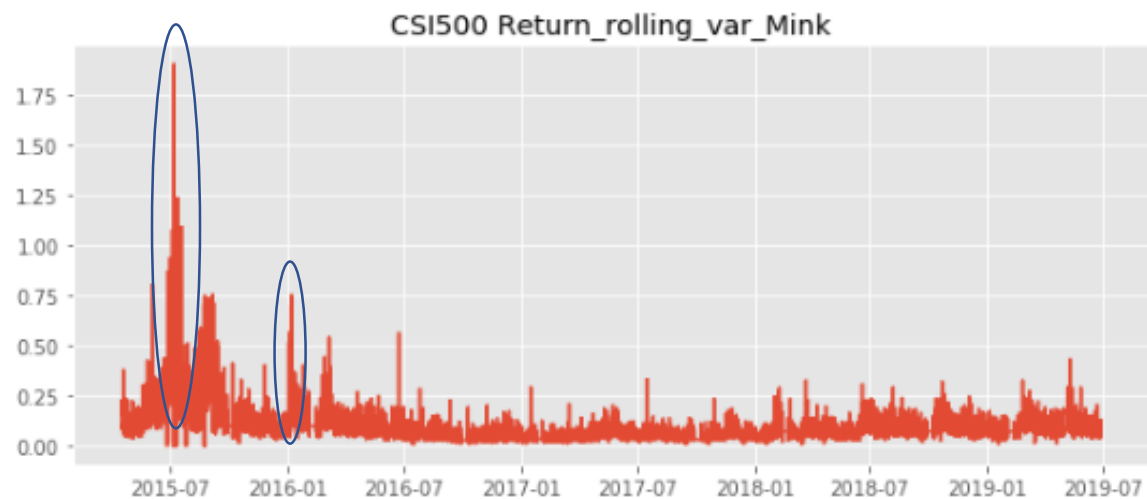
中證500

Underlying Bond	CSI 500 Index
Contract Multiplier	CNY 200
Unit	Index point
Tick Size	0.2 point
Contract Months	Monthly: current month, next month, next two calendar quarters (four total)
Trading Hours	09:30 am - 11:30 am, 01:00 pm - 03:00 pm 4小時
Limit Up/Down	±10% of the settlement price on the previous trading day
Minimum Margin Requirement	8% of the contract value
Last Trading Day	Third Friday of the contract month, postponed to the next business day if it falls on a public holiday
Delivery Day	Third Friday, same as "Last Trading Day"
Settlement Method	cash settlement
Transaction Code	IC
Exchange	China Financial Futures Exchange

資料盒鬚圖



實體k棒報酬率 Rolling variance



實體k棒報酬率: $(\text{Close} - \text{Open}) / \text{Open}$

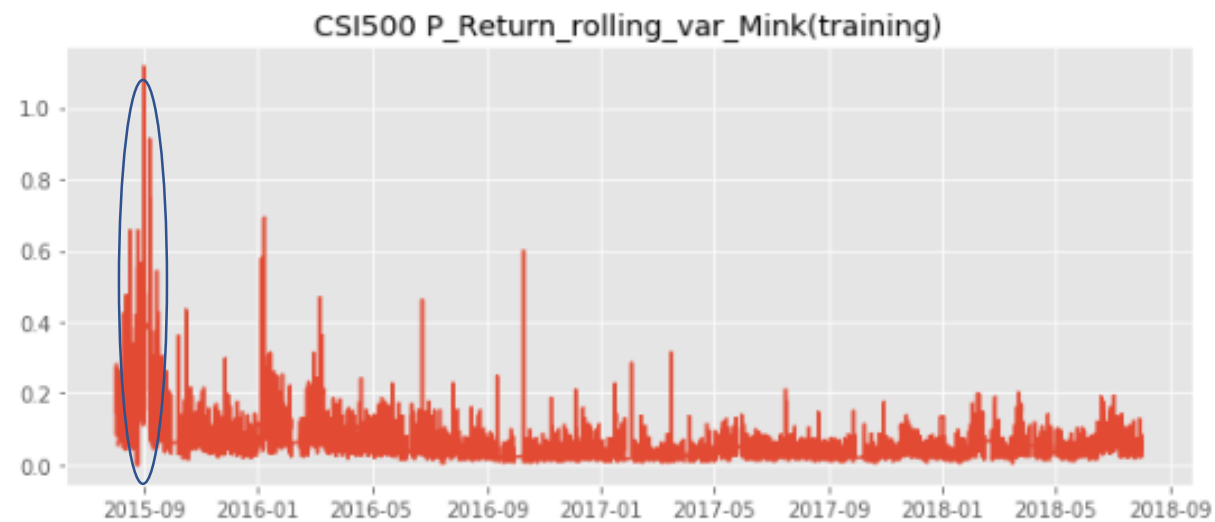


CSI500 strategy

樂觀報酬率 Rolling variance

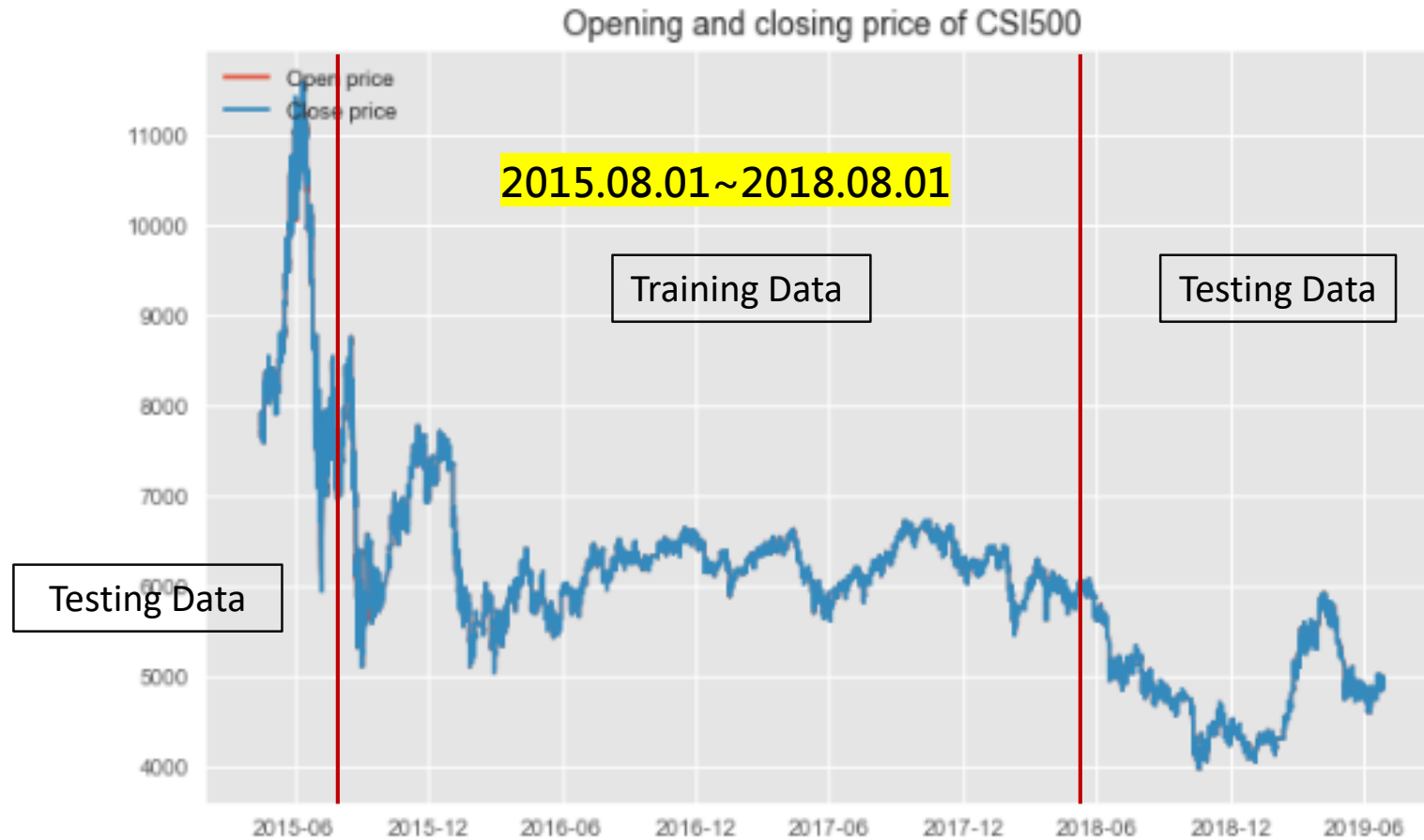


樂觀報酬率: $(\text{High} - \text{Low}) / \text{Low}$

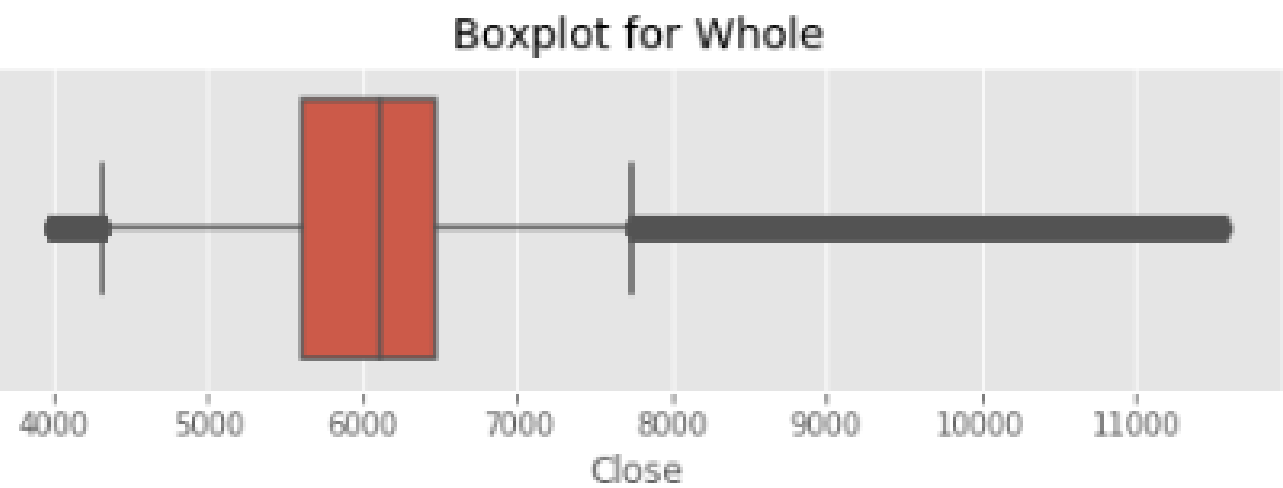
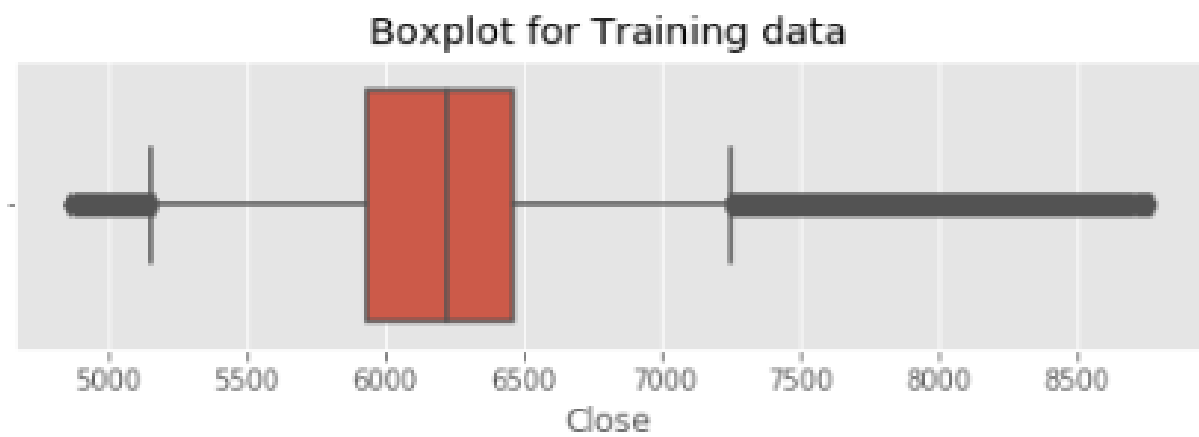


CSI500 strategy

樣本切割

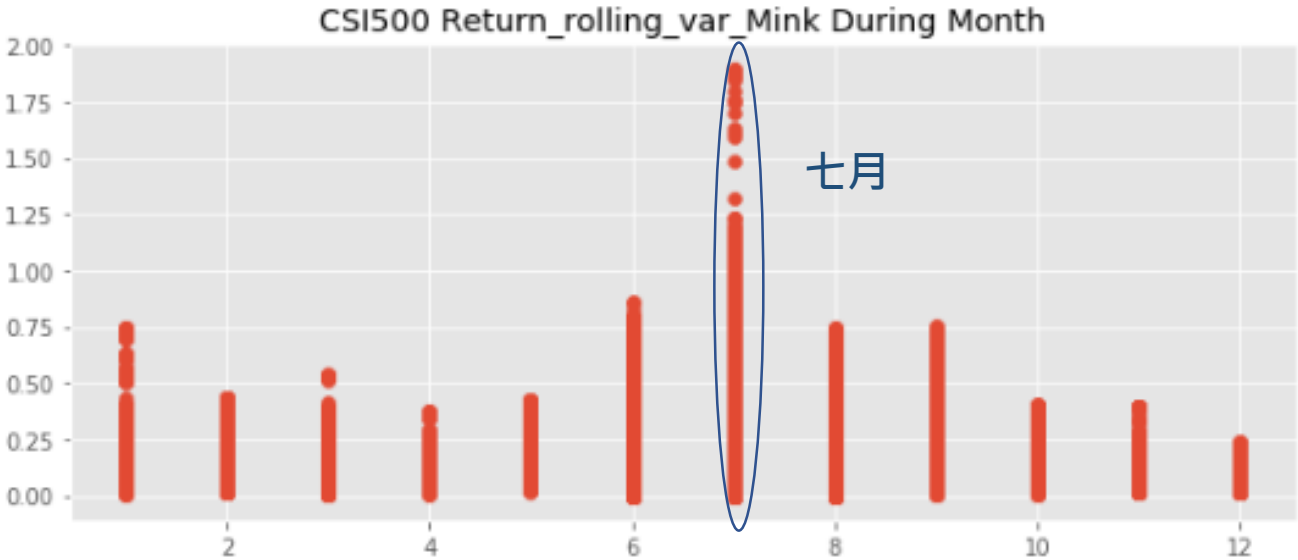
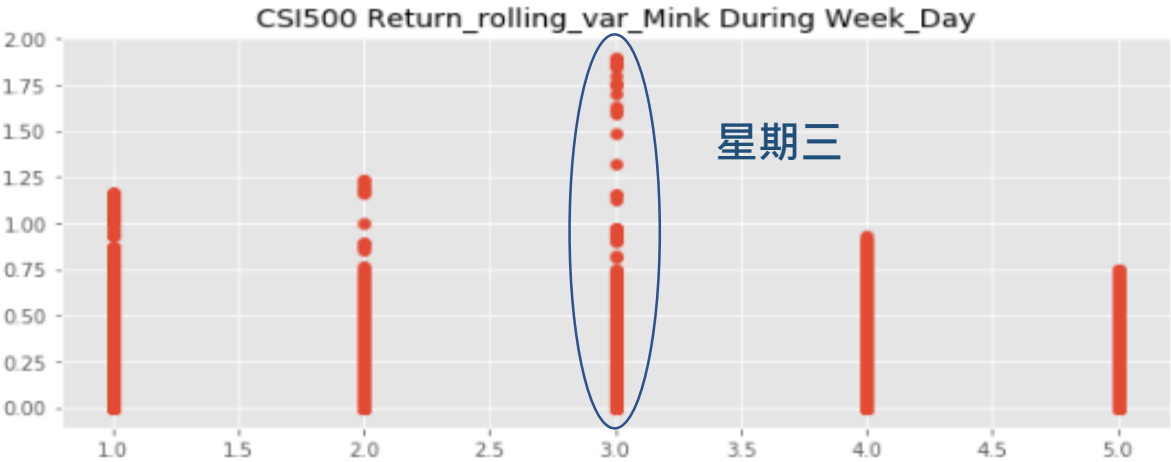


資料盒鬚圖



CSI500 strategy

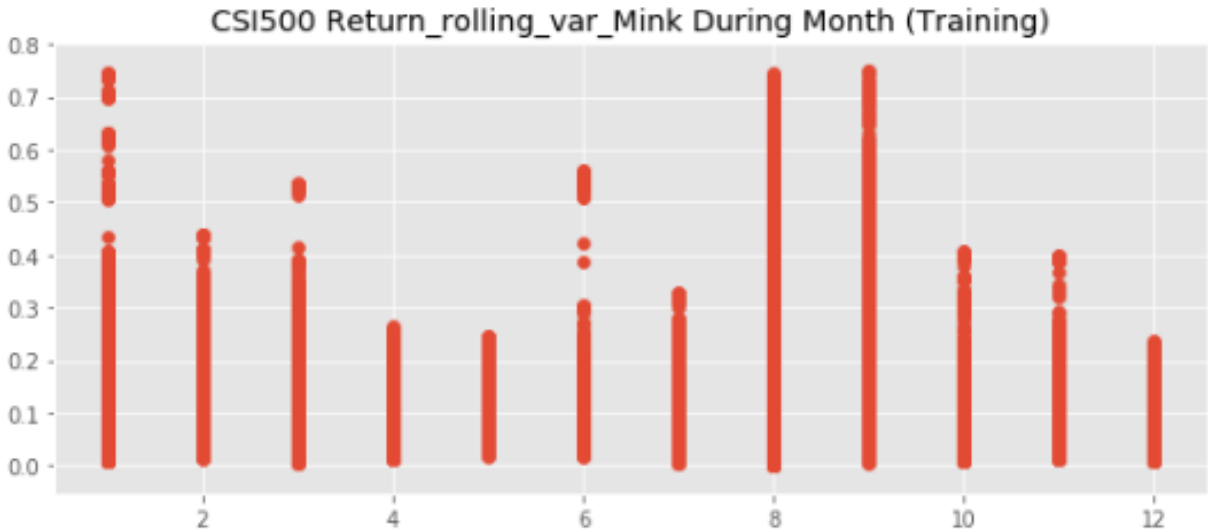
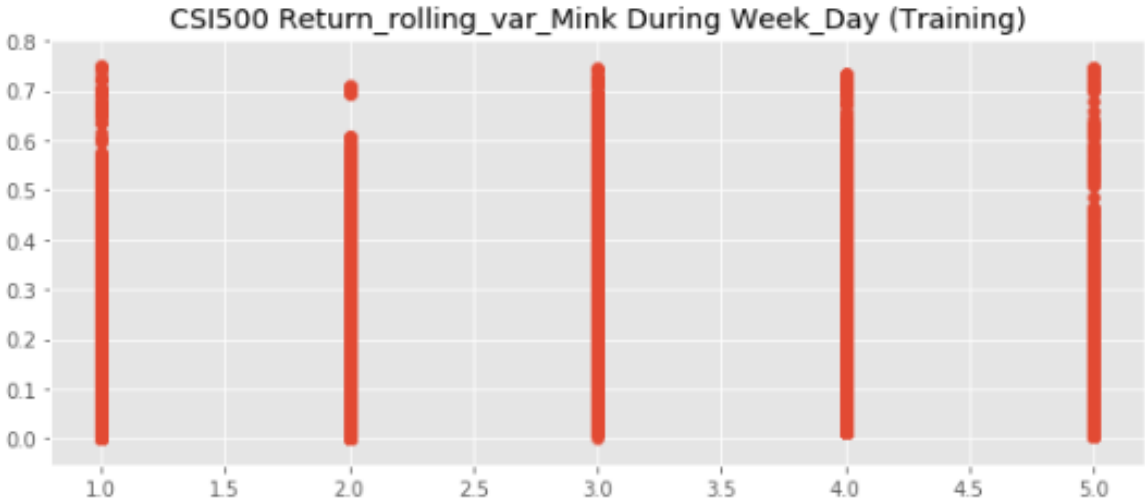
日內報酬率 Rolling variance – Month & Weekday



CSI500 strategy

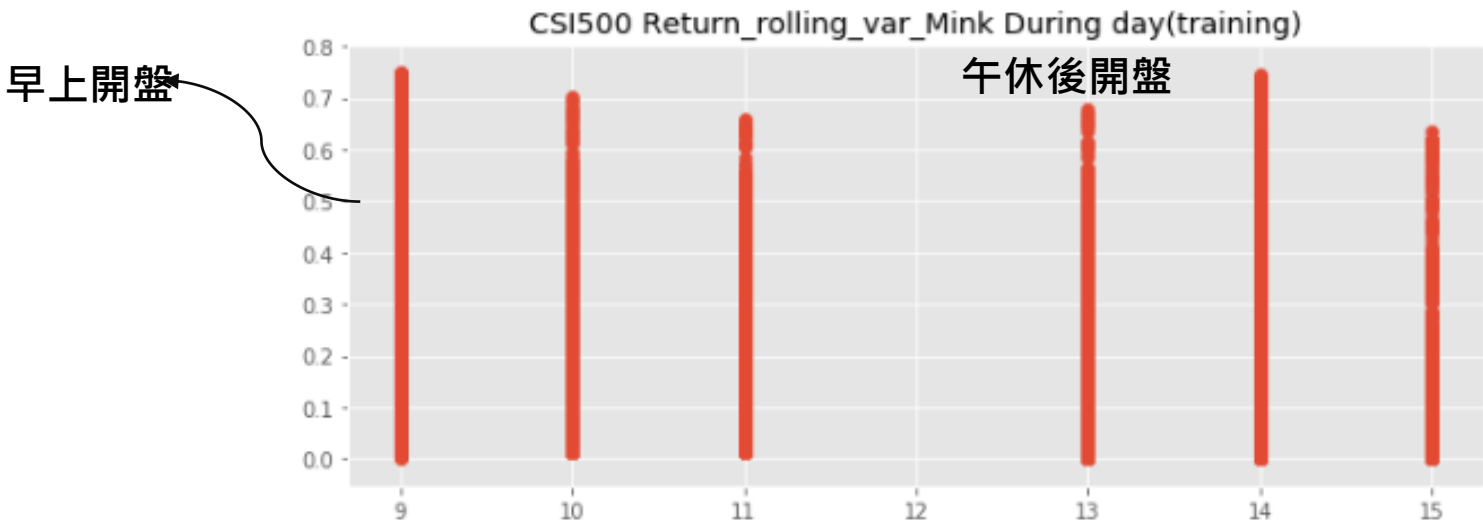
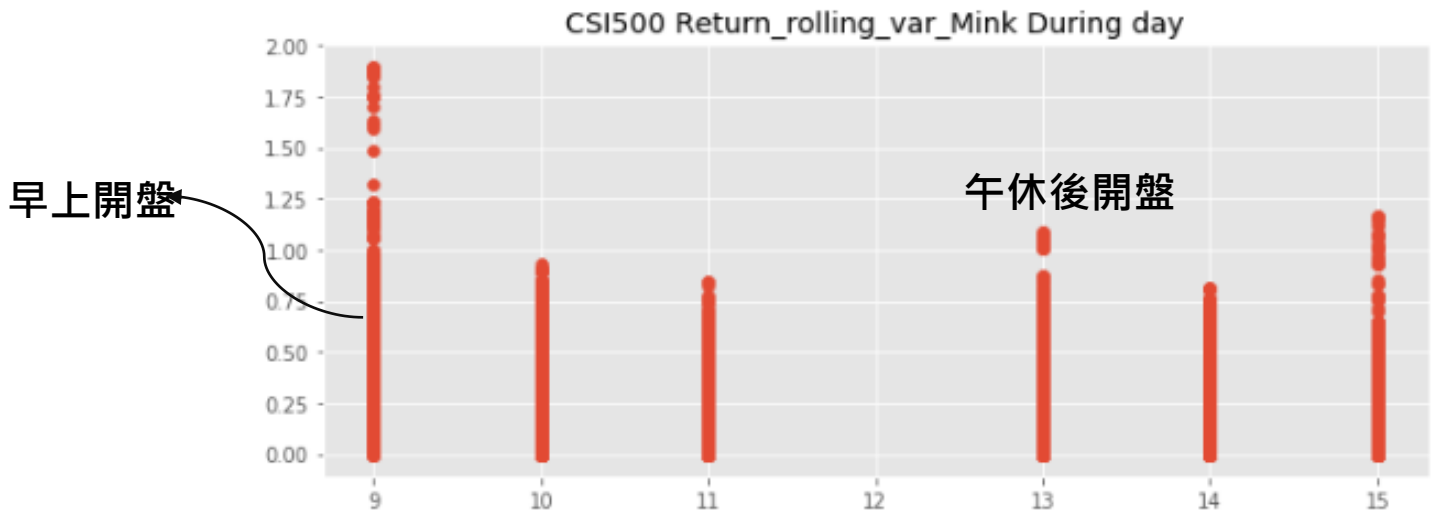


日内報酬率 Rolling variance – Month & Weekday (Training Data)



CSI500 strategy

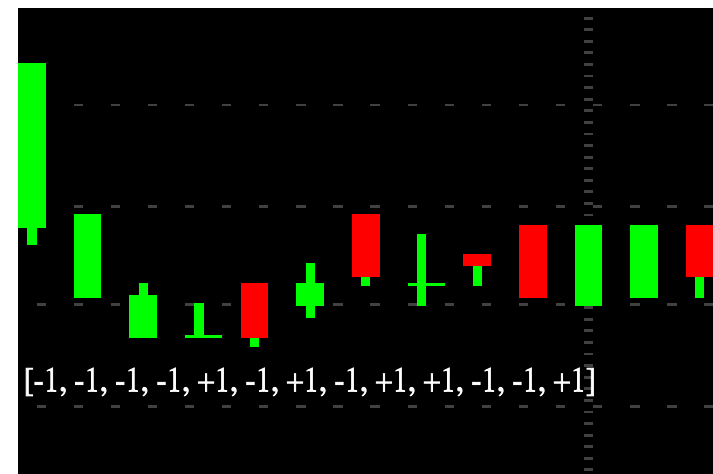
日內報酬率 Rolling variance - Hour



CSI500 strategy

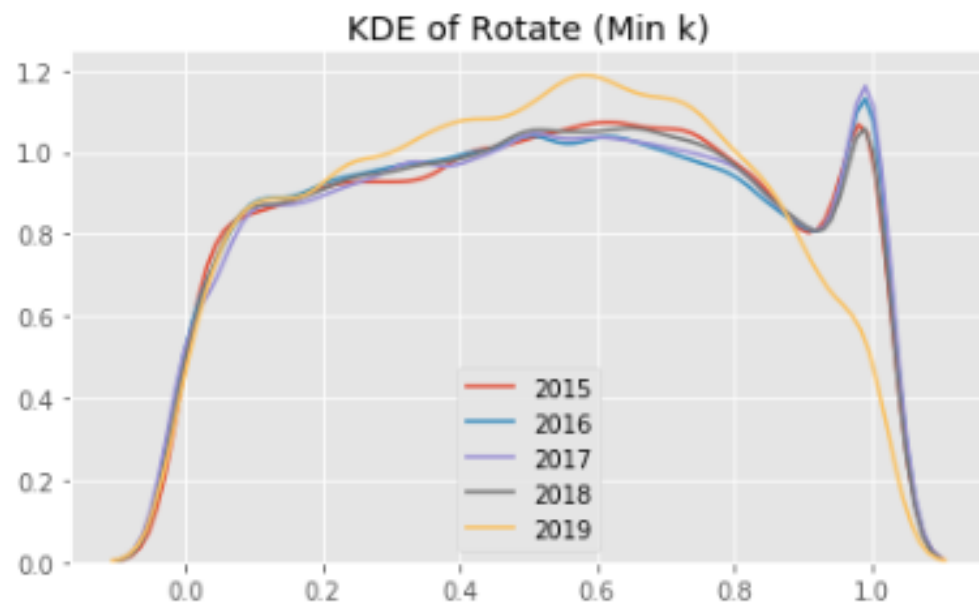
順逆勢判斷

```
def Go_up_num(Series):  
    positive_list = []  
    longest = 0  
    current = 0  
    for i in Series:  
        if i == 1:  
            current += 1  
        else:  
            longest = max(longest, current)  
            positive_list.append(longest)  
            current = 0  
    return positive_list  
  
def Go_down_num(Series):  
    negative_list = []  
    longest = 0  
    current = 0  
    for i in Series:  
        if i == -1:  
            current += 1  
        else:  
            longest = max(longest, current)  
            negative_list.append(longest)  
            current = 0  
    return negative_list
```



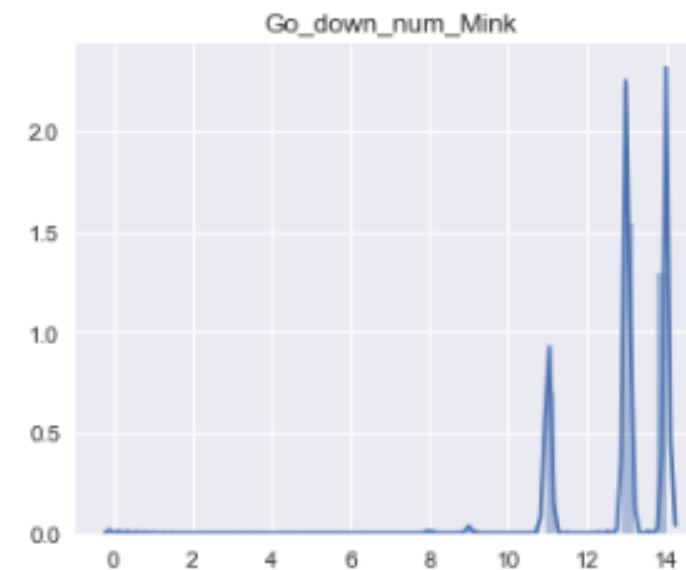
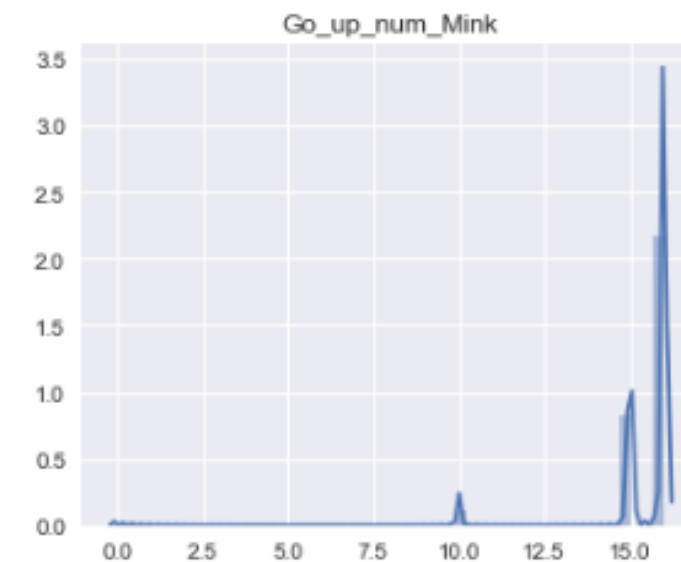
- 計算連續紅棒、綠棒次數，以上圖為例
- -1: [4, 1, 1, 2]
- +1: [1, 1, 2, 1]
- 0: 開收盤價相同則填入0

順逆勢判斷



```
CSI500['Range'] = CSI500['High'] - CSI500['Low']  
CSI500['Diff'] = CSI500['Close'] - CSI500['Open']  
CSI500['Rotate'] = abs(CSI500['Diff']) / CSI500['Range']
```

- 計算連續向上、向下k棒分布，發現都呈現右偏**順勢**分布
- 最高最低距離和以實體k棒的比率，去繪製KDE圖
- 從分K和小時K可以看出，它們是靠向右端，表示向上甩高、向下甩低的比例很多，是**順勢**的好兆頭



CSI500 strategy

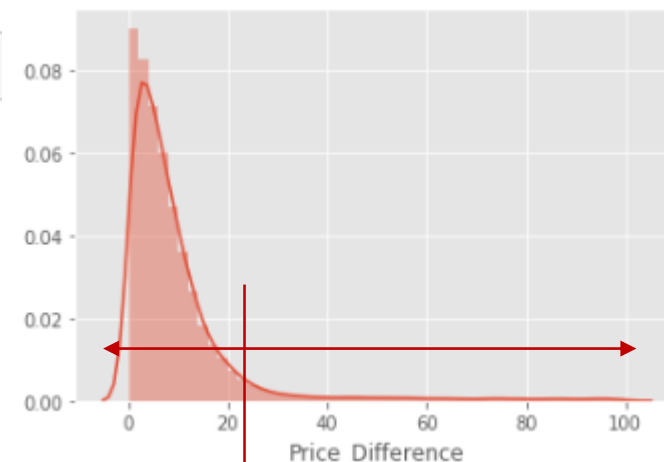
主邏輯

CSI500 strategy

價差

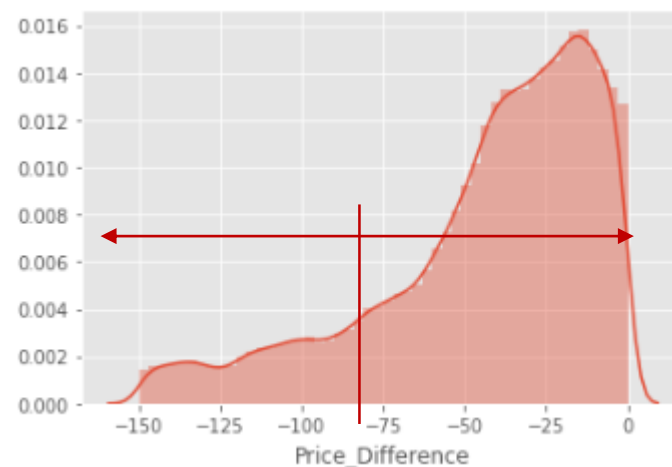
```
In [12]: CSI500_SSE.loc[CSI500_SSE['Price_Difference'] > 0, 'Price_Difference'].describe()
```

```
Out[12]: count    25471.000000  
mean      23.058546  
std       60.564933  
min        0.010000  
25%        3.010000  
50%        6.680000  
75%       12.740000  
max       564.620000  
Name: Price_Difference, dtype: float64
```



```
In [13]: CSI500_SSE.loc[CSI500_SSE['Price_Difference'] < 0, 'Price_Difference'].describe()
```

```
Out[13]: count    217854.000000  
mean     -79.912086  
std      100.807606  
min     -889.950000  
25%     -95.470000  
50%     -42.280000  
75%     -20.410000  
max       -0.010000  
Name: Price_Difference, dtype: float64
```



CSI500 strategy

程式碼

期貨

現貨

```
INPUT: DataSeries1(C OF DATA1), DataSeries2(C OF DATA2),UP(100), DN(100),
      PercentB(1.0),PercentS(1.0),PercentB2(1.0),PercentS2(1.0), BEGINTIME(0930), ENDTIME(1200);
VARS: RANGE(0);

// Value Setting
RANGE = HIGHD(1) - LOWD(1);
|
VALUE1 = OPEND(0) + (RANGE * PercentB);
VALUE2 = OPEND(0) - (RANGE * PercentS);

VALUE3 = DataSeries1- DataSeries2;

VALUE4 = OPEND(0) + (RANGE * PercentB2);
VALUE5 = OPEND(0) - (RANGE * PercentS2);
```

名稱	數值
DataSeries1	c of data1
DataSeries2	c of data2
UP	105
DN	94
PercentB	0.5
PercentS	0.2
PercentB2	1
PercentS2	0.9
BEGINTIME	930
ENDTIME	1200

程式碼

```
// Time Condition
CONDITION1 = TIME > BEGINTIME;
CONDITION2 = TIME < ENDTIME;

// Price Diff Condition
CONDITION3 = VALUE3 CROSS OVER DN AND VALUE3 < UP;
CONDITION4 = VALUE3 CROSS UNDER -DN AND VALUE3 > -UP;

// Price Diff Enter
IF CONDITION1 AND CONDITION3 AND ENTRIES TODAY (DATE) = 0 THEN BUY ("BPD") NEXT BAR MARKET;
IF CONDITION1 AND CONDITION4 AND ENTRIES TODAY (DATE) = 0 THEN SELLSHORT ("SPD") NEXT BAR MARKET;

// ORB Enter
IF CONDITION1 AND CONDITION2 AND ENTRIES TODAY (DATE) = 0 THEN BEGIN
    BUY ("BORB") NEXT BAR AT VALUE1 STOP;
    SELLSHORT ("SORB") NEXT BAR AT VALUE2 STOP;
END;
```


程式碼

```
// Exit
IF MARKETPOSITION <> 0 THEN BEGIN
    SELL NEXT BAR AT VALUE5 STOP;
    BUYTOCOVER NEXT BAR AT VALUE4 STOP;
END;

// Day Close Exit
IF TIME >= 1455 THEN BEGIN
    SELL NEXT BAR MARKET;
    BUYTOCOVER NEXT BAR MARKET;
END;
```

ORB + 價差 (樣本內)

2015.08.01~2018.08.01

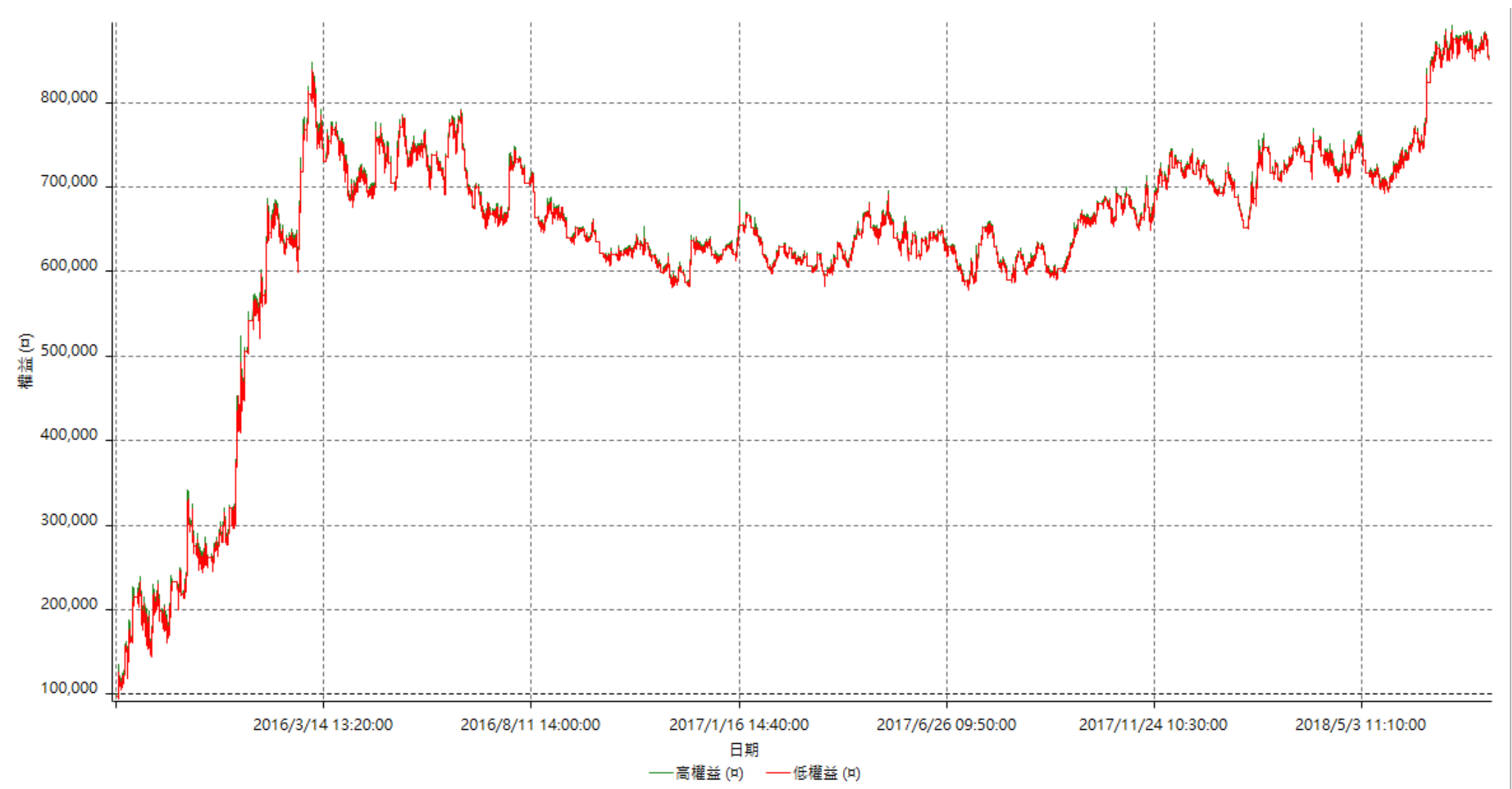
名稱	數值
DataSet1	c of data1
DataSet2	c of data2
UP	105
DN	94
PercentB	0.5
PercentS	0.2
PercentB2	1
PercentS2	0.9
BEGINTIME	930
ENDTIME	1200

樣本內績效

	所有交易	多單	空單
淨利	¥750840	¥248640	¥502200
毛利	¥3483120	¥818560	¥2664560
毛損	(¥2732280)	(¥569920)	(¥2162360)
調整後淨利	¥378095.05	¥87536.59	¥163765.78
調整後毛利	¥3273079.96	¥727608.89	¥2473255.74
調整後毛損	(¥2894984.91)	(¥640072.3)	(¥2309489.96)
特定淨利	¥438240	¥185080	¥253160
特定毛利	¥2158600	¥577840	¥1580760
特定毛損	(¥1720360)	(¥392760)	(¥1327600)
帳戶所需金額	¥251480	¥75800	¥247840
帳戶報酬	298.57%	328.02%	202.63%
初始資本報酬	750.84%	248.64%	502.2%
最大策略虧損	(¥269200)	(¥92000)	(¥273280)
最大策略虧損 (%)	(39.59%)	(25.53%)	(69.32%)
最大平倉交易虧損	(¥251480)	(¥75800)	(¥247840)
最大平倉交易虧損 (%)	(30.14%)	(19.54%)	(56.91%)
最大的策略虧損報酬	2.79	2.7	1.84
獲利因子	1.27	1.44	1.23
調整獲利因子	1.13	1.14	1.07
特定獲利因子	1.25	1.47	1.19
最大持有契約數量	1	1	1
溢價支付	¥558000	¥148000	¥410000
佣金支付	¥0	¥0	¥0
未平倉部位損益	n/a	n/a	n/a
年報酬率	266.98%	88.41%	178.57%
月報酬率	22.25%	7.37%	14.88%
買進持有績效	(¥18932.91)	(¥18932.91)	(¥24308.68)

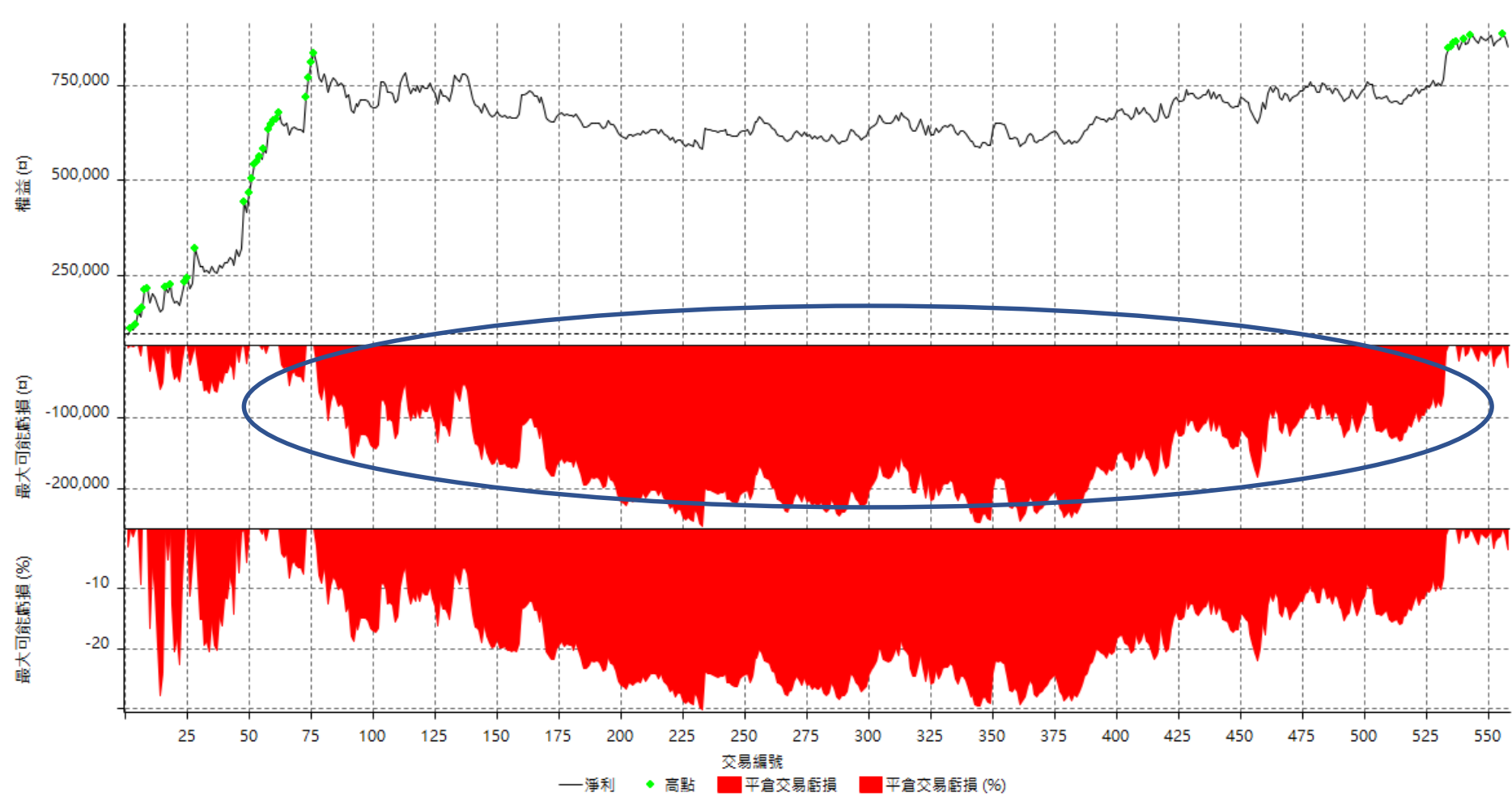
CSI500 strategy

樣本內績效



CSI500 strategy

樣本內績效



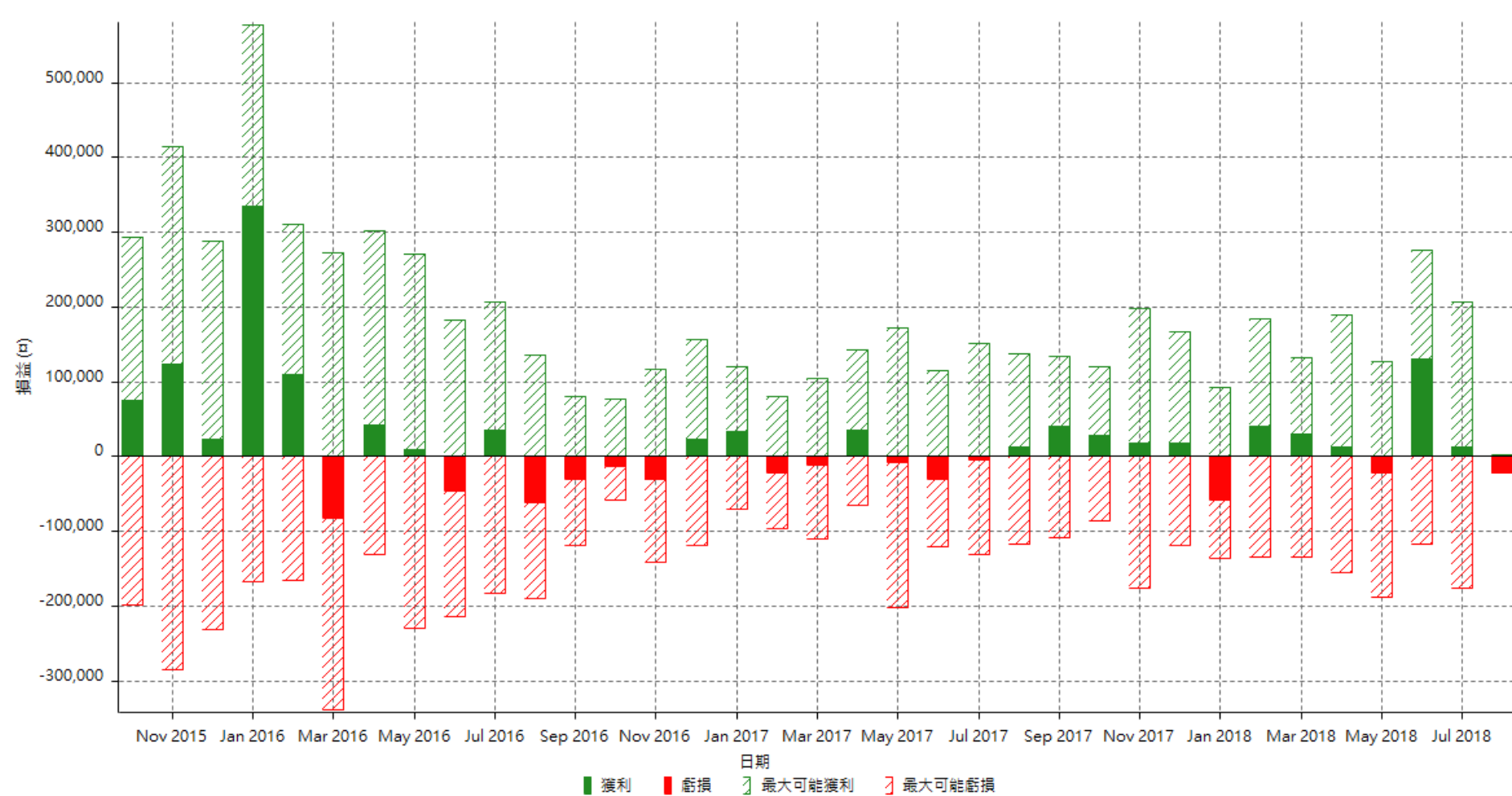
CSI500 strategy

樣本內績效

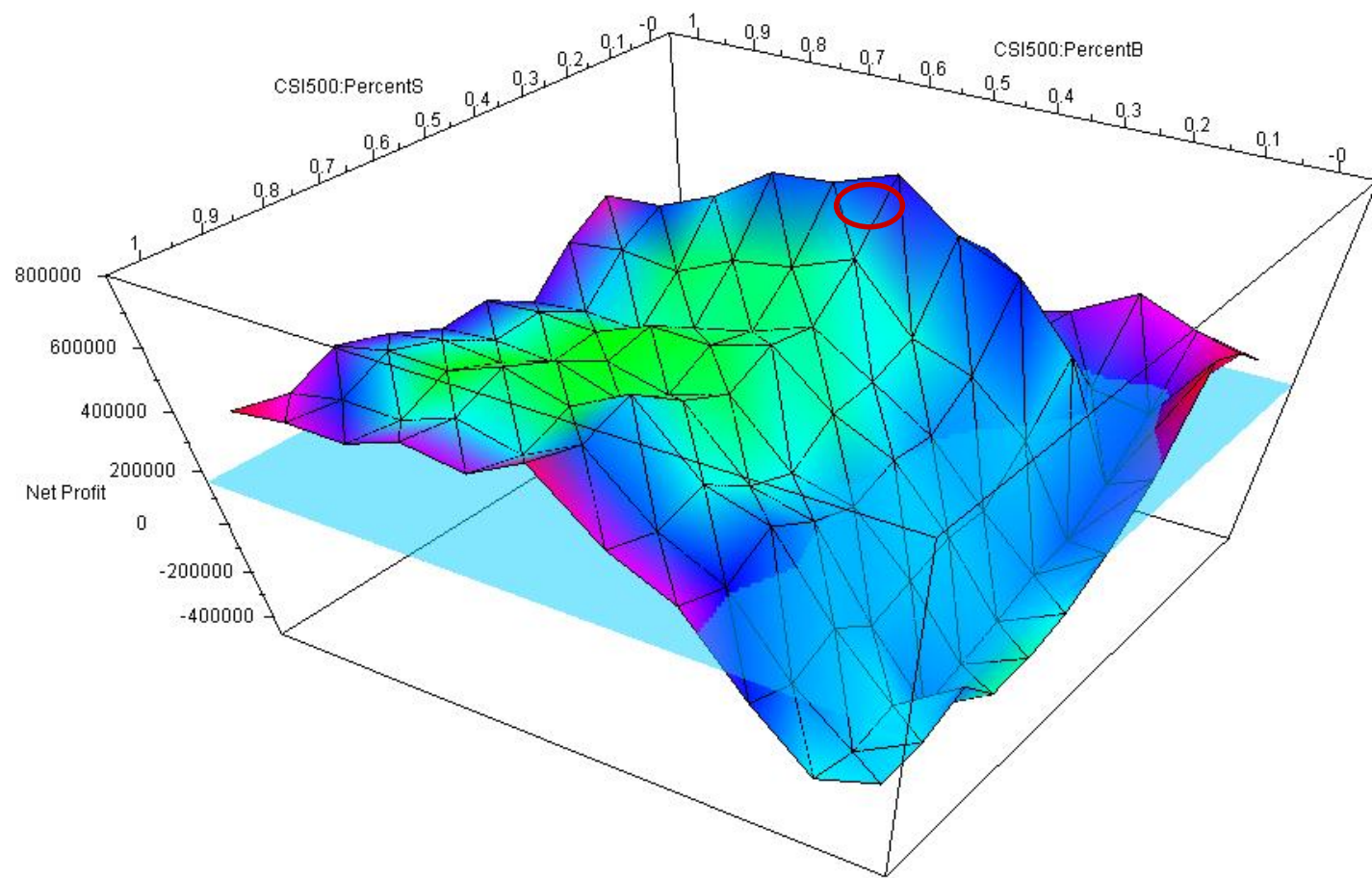
期間	獲利		毛利	毛損	交易次數	勝率
	¤	%				
2018	¤125760	17.34%	¤661720	(¤535960)	116	54.31%
2017	¤109880	17.86%	¤877640	(¤767760)	196	51.02%
2016	¤293480	91.22%	¤1391920	(¤1098440)	199	44.72%
2015	¤221720	221.72%	¤551840	(¤330120)	47	48.94%

	所有交易	多單	空單
交易總次數	558	148	410
未平倉交易總數量	0	0	0
獲利交易次數	275	81	194
虧損交易次數	282	66	216
勝率	49.28%	54.73%	47.32%
平均交易(獲利 虧損)	¤1345.59	¤1680	¤1224.88
平均獲利交易	¤12665.89	¤10105.68	¤13734.85
平均虧損交易	(¤9688.94)	(¤8635.15)	(¤10010.93)
平均獲利/平均虧損 比率	1.31	1.17	1.37
最大的交易獲利	¤121480	¤55360	¤121480
最大的交易虧損	(¤41040)	(¤28760)	(¤41040)
平倉交易的平均K棒數	40.6	39.3	41
獲利平倉交易的平均K棒數	42.8	40.2	43.8
虧損平倉交易的平均K棒數	38.4	38.2	38.5
平倉交易間的平均K棒數	43	43	n/a
獲利平倉交易間的平均K棒數	84.8	392.8	136.9
虧損平倉交易間的平均K棒數	86	493.2	123.9

樣本內績效

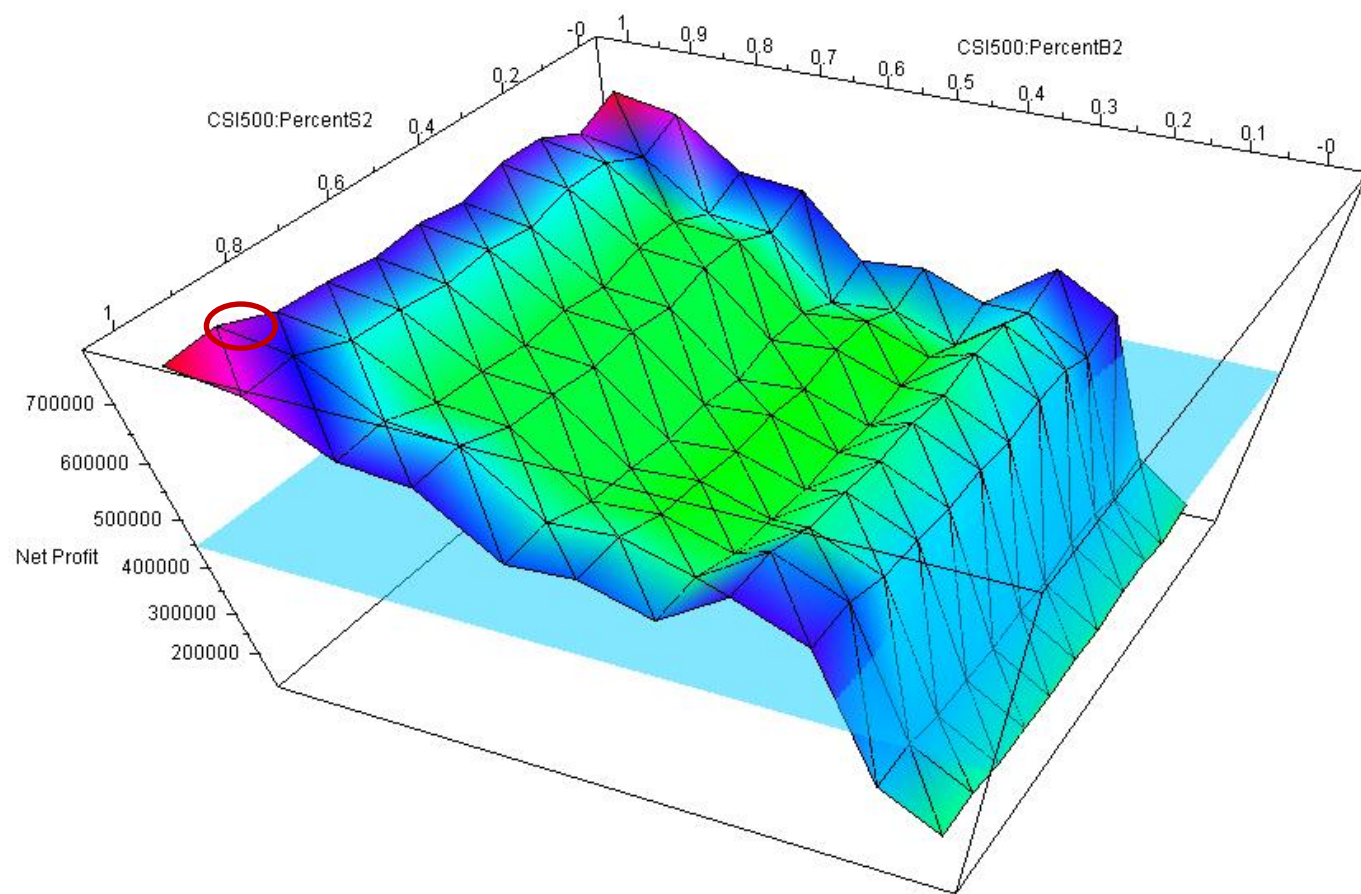


最佳化- 進場開口比率



3D Chart created with MultiCharts (<http://multicharts.yuantafutures.com.tw/index.html>)

最佳化- 出場開口比率



3D Chart created with MultiCharts (<http://multicharts.yuantafutures.com.tw/index.html>)

CSI500 strategy

ORB + 價差 (全樣本)

2015.01.01~2019.06.28

名稱	數值
DataSet1	c of data1
DataSet2	c of data2
UP	105
DN	94
PercentB	0.5
PercentS	0.2
PercentB2	1
PercentS2	0.9
BEGINTIME	930
ENDTIME	1200

全樣本績效 - ORB + 價差

	所有交易	多單	空單
淨利	¥1775640	¥448240	¥1327400
毛利	¥7137400	¥1782880	¥5354520
毛損	(¥5361760)	(¥1334640)	(¥4027120)
調整後淨利	¥1167286.98	¥154010.95	¥793665.16
調整後毛利	¥6789130.54	¥1620800	¥5044860.11
調整後毛損	(¥5621843.56)	(¥1466789.05)	(¥4251194.95)
特定淨利	¥408400	¥368120	¥40280
特定毛利	¥3902640	¥1164640	¥2738000
特定毛損	(¥3494240)	(¥796520)	(¥2697720)
帳戶所需金額	¥343880	¥326320	¥247840
帳戶報酬	516.35%	137.36%	535.59%
初始資本報酬	1775.64%	448.24%	1327.4%
最大策略虧損	(¥442720)	(¥404840)	(¥298360)
最大策略虧損 (%)	(108.02%)	(86.83%)	(148.72%)
最大平倉交易虧損	(¥343880)	(¥326320)	(¥247840)
最大平倉交易虧損 (%)	(98.39%)	(82.57%)	(136.03%)
最大的策略虧損報酬	4.01	1.11	4.45
獲利因子	1.33	1.34	1.33
調整獲利因子	1.21	1.1	1.19
特定獲利因子	1.12	1.46	1.01
最大持有契約數量	1	1	1
滑價支付	¥847000	¥224000	¥623000
佣金支付	¥0	¥0	¥0
未平倉部位損益	n/a	n/a	n/a
年報酬率	423.83%	106.99%	316.84%
月報酬率	35.32%	8.92%	26.4%

CSI500 strategy

全樣本績效 - 價差

	所有交易	多單	空單
淨利	(¥107400)	(¥168280)	¥60880
毛利	¥812480	¥50720	¥761760
毛損	(¥919880)	(¥219000)	(¥700880)
調整後淨利	(¥346425.94)	(¥373856.39)	(¥143930.57)
調整後毛利	¥699809.3	¥0	¥655092.26
調整後毛損	(¥1046235.24)	(¥373856.39)	(¥799022.83)
特定淨利	¥29080	¥0	¥29080
特定毛利	¥401520	¥0	¥401520
特定毛損	(¥372440)	¥0	(¥372440)
帳戶所需金額	¥415840	¥219000	¥196840
帳戶報酬	(25.83%)	(76.84%)	30.93%
初始資本報酬	(107.4%)	(168.28%)	60.88%
最大策略虧損	(¥502560)	(¥222060)	(¥283560)
最大策略虧損 (%)	(220.75%)	(144.4%)	(160.26%)
最大平倉交易虧損	(¥415840)	(¥219000)	(¥196840)
最大平倉交易虧損 (%)	(271.72%)	(145.3%)	(192.38%)
最大的策略虧損報酬	(0.21)	(0.76)	0.21
獲利因子	(0.88)	(0.23)	1.09
調整獲利因子	(0.67)	0	(0.82)
特定獲利因子	1.08	0	1.08
最大持有契約數量	1	1	1
滑價支付	¥105000	¥3000	¥102000
佣金支付	¥0	¥0	¥0
未平倉部位損益	n/a	n/a	n/a
年報酬率	(25.64%)	(40.17%)	14.53%
月報酬率	(2.14%)	(3.35%)	1.21%
買進持有績效	(¥38000.61)	(¥51804.58)	(¥38000.61)

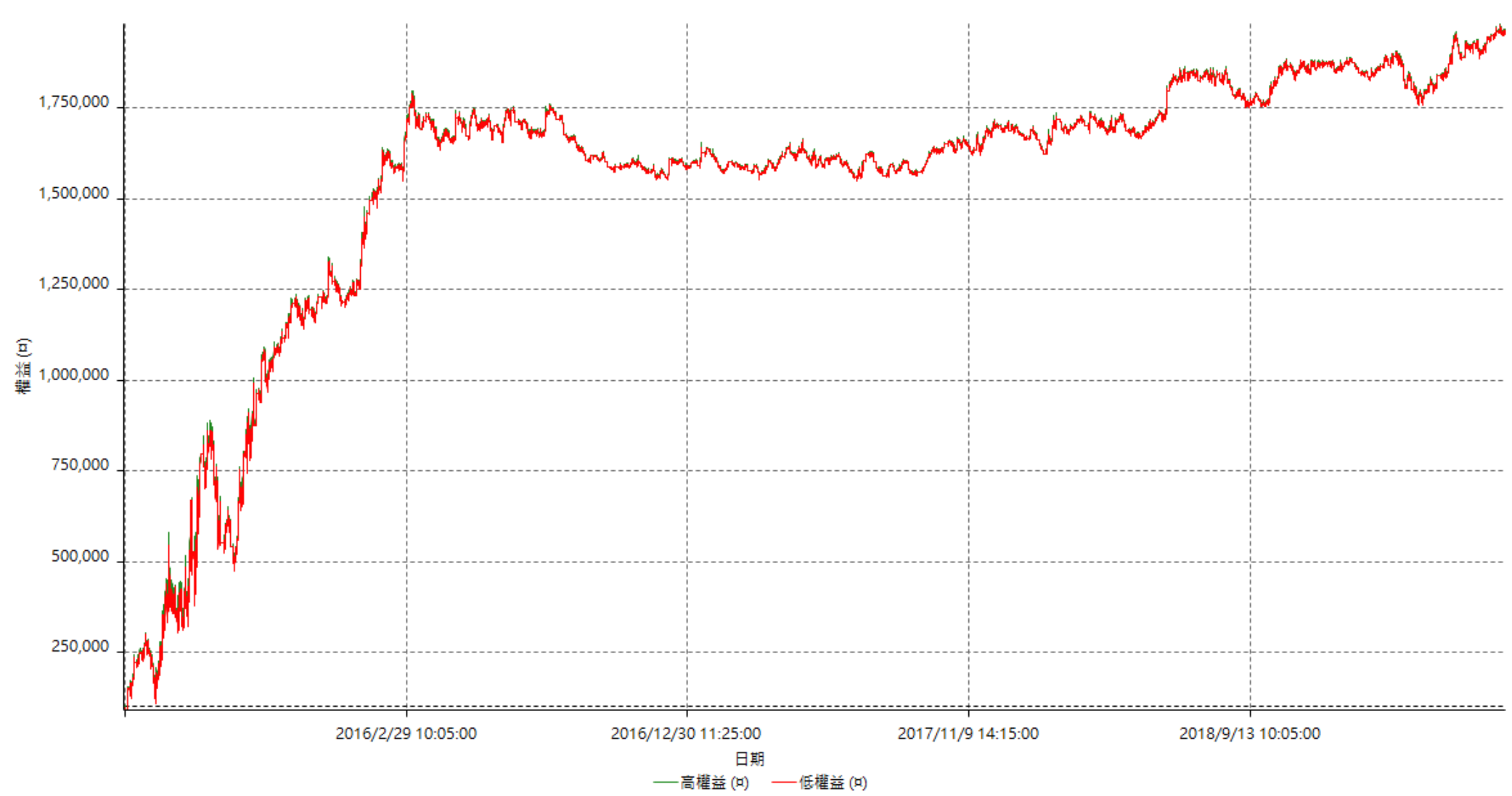
CSI500 strategy

全樣本績效 - ORB

	所有交易	多單	空單
淨利	¥1856640	¥528200	¥1328440
毛利	¥7036640	¥1798440	¥5238200
毛損	(¥5180000)	(¥1270240)	(¥3909760)
調整後淨利	¥1256367	¥242077.4	¥798948.81
調整後毛利	¥6689125.12	¥1636280.13	¥4928998.83
調整後毛損	(¥5432758.12)	(¥1394202.73)	(¥4130050.02)
特定淨利	¥463200	¥388240	¥74960
特定毛利	¥3870600	¥1230920	¥2639680
特定毛損	(¥3407400)	(¥842680)	(¥2564720)
帳戶所需金額	¥340680	¥215760	¥206760
帳戶報酬	544.98%	244.81%	642.5%
初始資本報酬	1856.64%	528.2%	1328.44%
最大策略虧損	(¥413080)	(¥294280)	(¥298360)
最大策略虧損 (%)	(64.38%)	(61.08%)	(101.62%)
最大平倉交易虧損	(¥340680)	(¥215760)	(¥206760)
最大平倉交易虧損 (%)	(55.4%)	(52.53%)	(89.13%)
最大的策略虧損報酬	4.49	1.79	4.45
獲利因子	1.36	1.42	1.34
調整獲利因子	1.23	1.17	1.19
特定獲利因子	1.14	1.46	1.03
最大持有契約數量	1	1	1
滑價支付	¥832000	¥229000	¥603000
佣金支付	¥0	¥0	¥0
未平倉部位損益	n/a	n/a	n/a
年報酬率	443.16%	126.08%	317.09%
月報酬率	36.93%	10.51%	26.42%
買進持有績效	(¥36606.5)	(¥36606.5)	(¥41572.39)

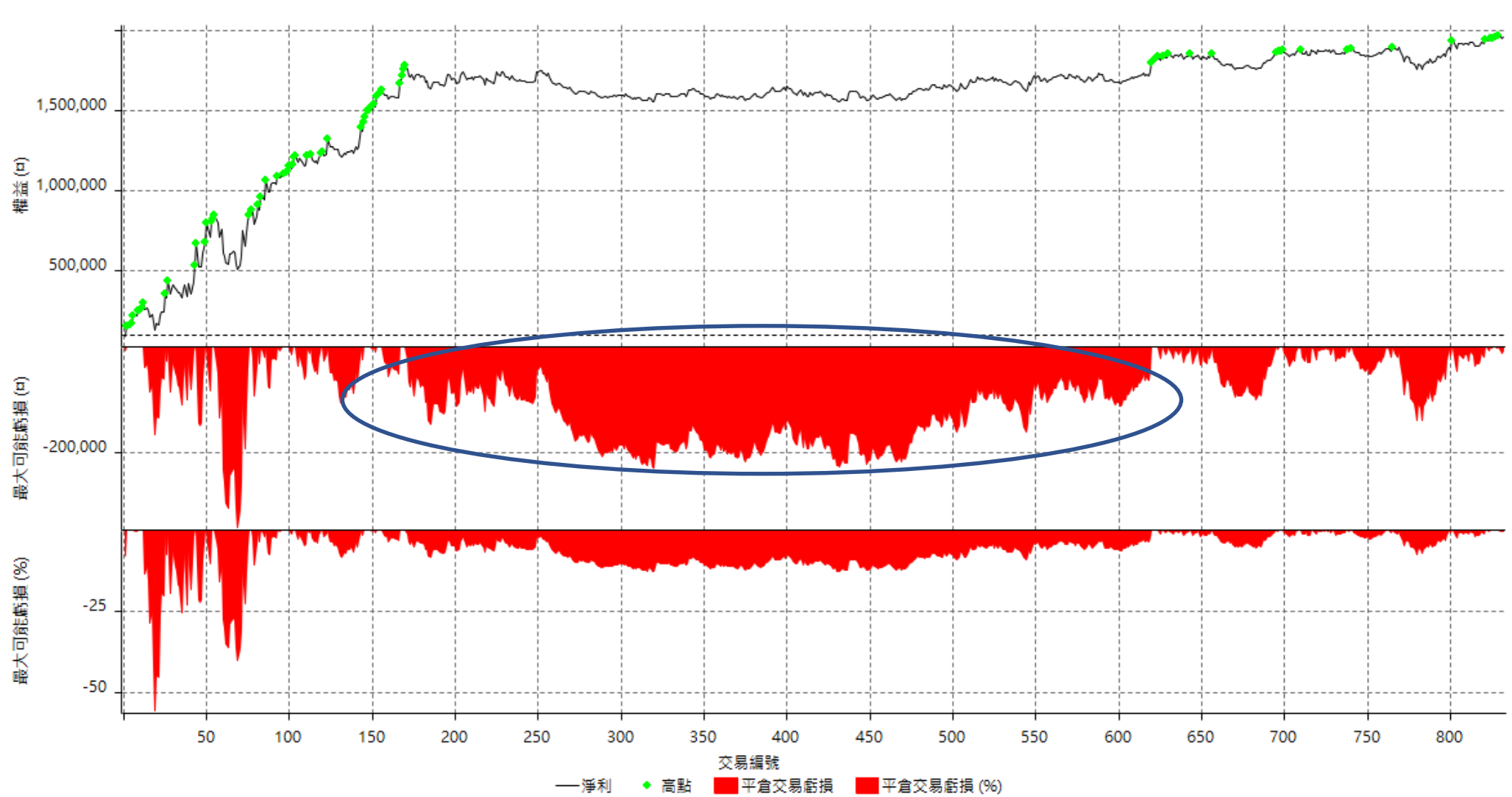
CSI500 strategy

全樣本績效



CSI500 strategy

全樣本績效



CSI500 strategy

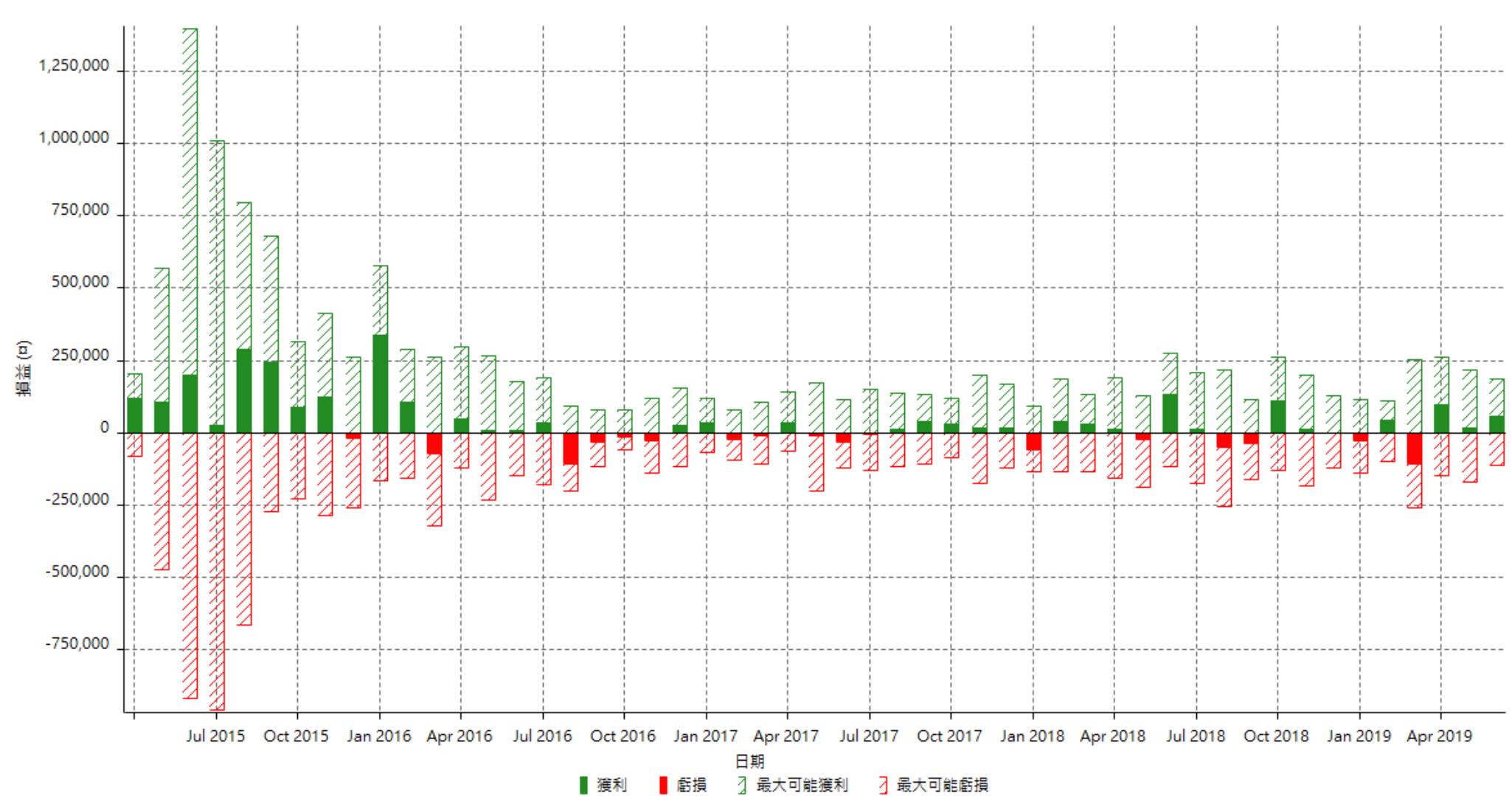
全樣本績效

期間	獲利		毛利	毛損	交易次數	勝率
	¥	%				
2019	¥80400	4.29%	¥597440	(¥517040)	95	44.21%
2018	¥179120	10.55%	¥1112280	(¥933160)	208	52.88%
2017	¥109880	6.92%	¥877640	(¥767760)	196	51.02%
2016	¥310480	24.32%	¥1359360	(¥1048880)	191	42.93%
2015	¥1176760	1176.76%	¥3089920	(¥1913160)	142	53.52%

	所有交易	多單	空單
交易總次數	832	229	603
未平倉交易總數量	0	0	0
獲利交易次數	410	123	287
虧損交易次數	420	105	315
勝率	49.28%	53.71%	47.6%
平均交易(獲利 虧損)	¥2231.54	¥2306.55	¥2203.05
平均獲利交易	¥17162.54	¥14621.46	¥18251.57
平均虧損交易	(¥12333.33)	(¥12097.52)	(¥12411.94)
平均獲利/平均虧損 比率	1.39	1.21	1.47
最大的交易獲利	¥168000	¥109720	¥168000
最大的交易虧損	(¥146040)	(¥146040)	(¥143520)
平倉交易的平均K棒數	40.3	38.8	40.9
獲利平倉交易的平均K棒數	42.5	39.8	43.6
虧損平倉交易的平均K棒數	38.2	37.6	38.4
平倉交易間的平均K棒數	42	43	41
獲利平倉交易間的平均K棒數	77.3	359.5	127.5
虧損平倉交易間的平均K棒數	78.7	430.2	117.5

CSI500 strategy

全樣本績效



CSI500 strategy

隨機森林 – Random Forest



What is?

Application of
Random
Forest

Random Forest

Aleksandra Traživuk
Zorica Mrakić



隨機森林 - Random Forest



MACHINE
LEARNING

CSI500 strategy

Model

```
# Handling fee ratio  
period_stock_data['handling_fee_ratio'] = 1000 / (period_stock_data['Close_CSI500'] * 200)
```

```
period_stock_data['handling_fee_ratio'].describe()
```

```
count    50663.000000  
mean      0.000845  
std       0.000147  
min       0.000432  
25%      0.000775  
50%      0.000819  
75%      0.000897  
max       0.001255
```

```
Name: handling_fee_ratio, dtype: float64
```

Model

紅黑 k 報酬 (日內)

```
In [9]: # Red k return
return_mask = period_stock_data['diff_1D'] > 0
period_stock_data.loc[return_mask, 'return_1D'].describe()
```

```
Out[9]: count    525.000000
        mean      0.012921
        std       0.014898
        min       0.000030
        25%       0.003879
        50%       0.008030
        75%       0.016751
        max       0.099990
        Name: return_1D, dtype: float64
```

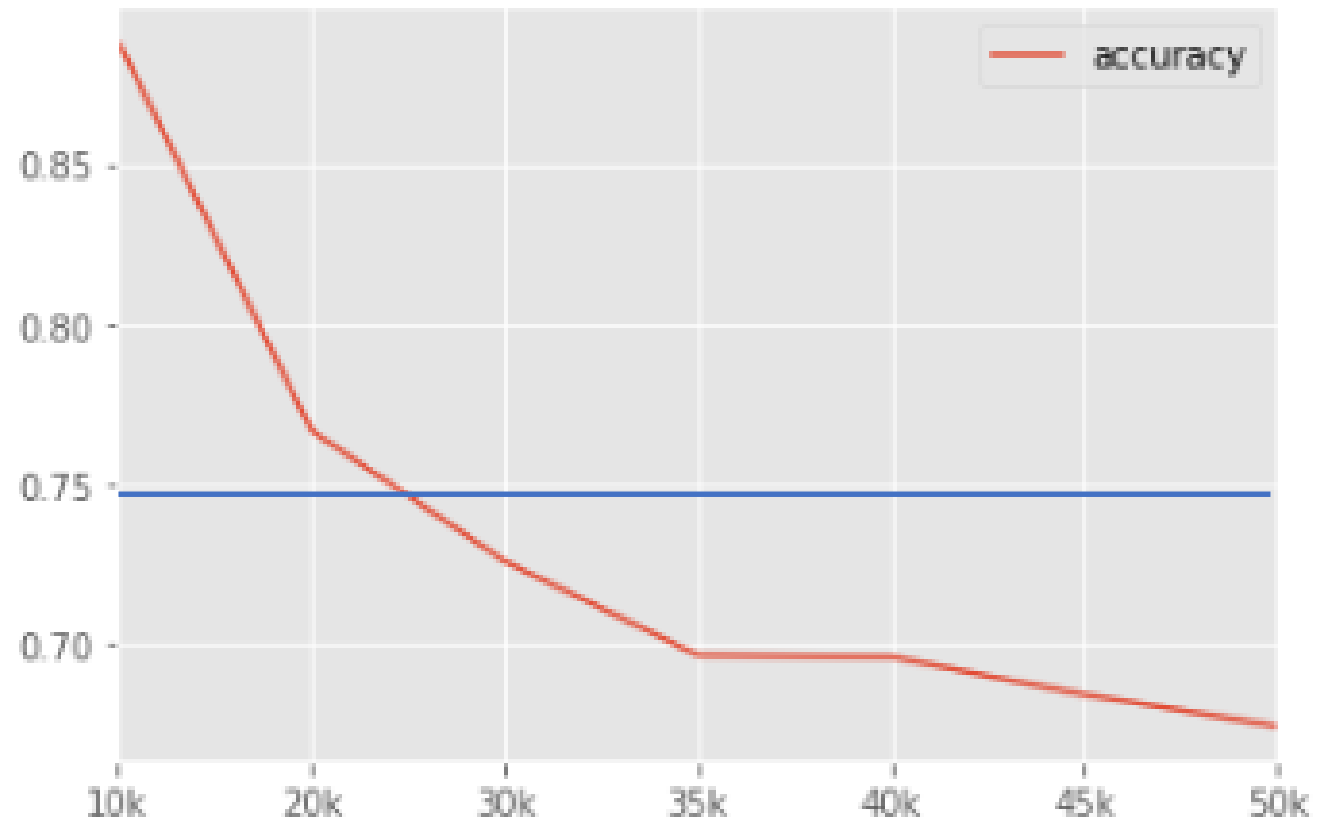
```
In [10]: # Black k return
return_mask = period_stock_data['diff_1D'] < 0
period_stock_data.loc[return_mask, 'return_1D'].describe()
```

```
Out[10]: count    499.000000
         mean     -0.014013
         std      0.018349
         min     -0.116022
         25%     -0.016552
         50%     -0.007695
         75%     -0.003001
         max     -0.000035
         Name: return_1D, dtype: float64
```

Model

```
# Future Return cover handling fee (14%)
period_stock_data['future_Return_10_cov'] = period_stock_data['future_Return_10'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_20_cov'] = period_stock_data['future_Return_20'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_30_cov'] = period_stock_data['future_Return_30'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_35_cov'] = period_stock_data['future_Return_35'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_40_cov'] = period_stock_data['future_Return_40'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_45_cov'] = period_stock_data['future_Return_45'].map(lambda x: 1 if abs(x) > 0.014 else 0)
period_stock_data['future_Return_50_cov'] = period_stock_data['future_Return_50'].map(lambda x: 1 if abs(x) > 0.014 else 0)
```

Accuracy



CSI500 strategy

程式碼

```
INPUT: DataSeries1(C OF DATA1), DataSeries2(C OF DATA2),  
      PercentB(1.0), PercentS(1.0), PercentB2(1.0), PercentS2(1.0), BEGINTIME(0930), ENDTIME(1200);  
VARS: RANGE(0);  
  
// Value Setting  
RANGE = HIGHD(1) - LOWD(1);  
VALUE1 = OPEND(0) + (RANGE * PercentB);  
VALUE2 = OPEND(0) - (RANGE * PercentS);  
VALUE4 = OPEND(0) + (RANGE * PercentB2);  
VALUE5 = OPEND(0) - (RANGE * PercentS2);  
  
// Time Condition  
CONDITION1 = TIME > BEGINTIME;  
CONDITION2 = TIME < ENDTIME;  
  
// Random Forest Condition  
CONDITION5 = (C OF DATA3) = 1;  
CONDITION6 = (C OF DATA4) = 1;  
CONDITION7 = (C OF DATA5) = 1;
```


程式碼

```
// Random Forest Enter
IF CONDITION1 AND CONDITION5 AND ENTRIES TODAY (DATE) = 0 THEN BEGIN
    BUY("B11") NEXT BAR AT VALUE1 STOP;
    SELLSHORT("S11") NEXT BAR AT VALUE2 STOP;
END;
IF CONDITION1 AND CONDITION6 AND ENTRIES TODAY (DATE) = 0 THEN BEGIN
    BUY("B12") NEXT BAR AT VALUE1 STOP;
    SELLSHORT("S12") NEXT BAR AT VALUE2 STOP;
END;

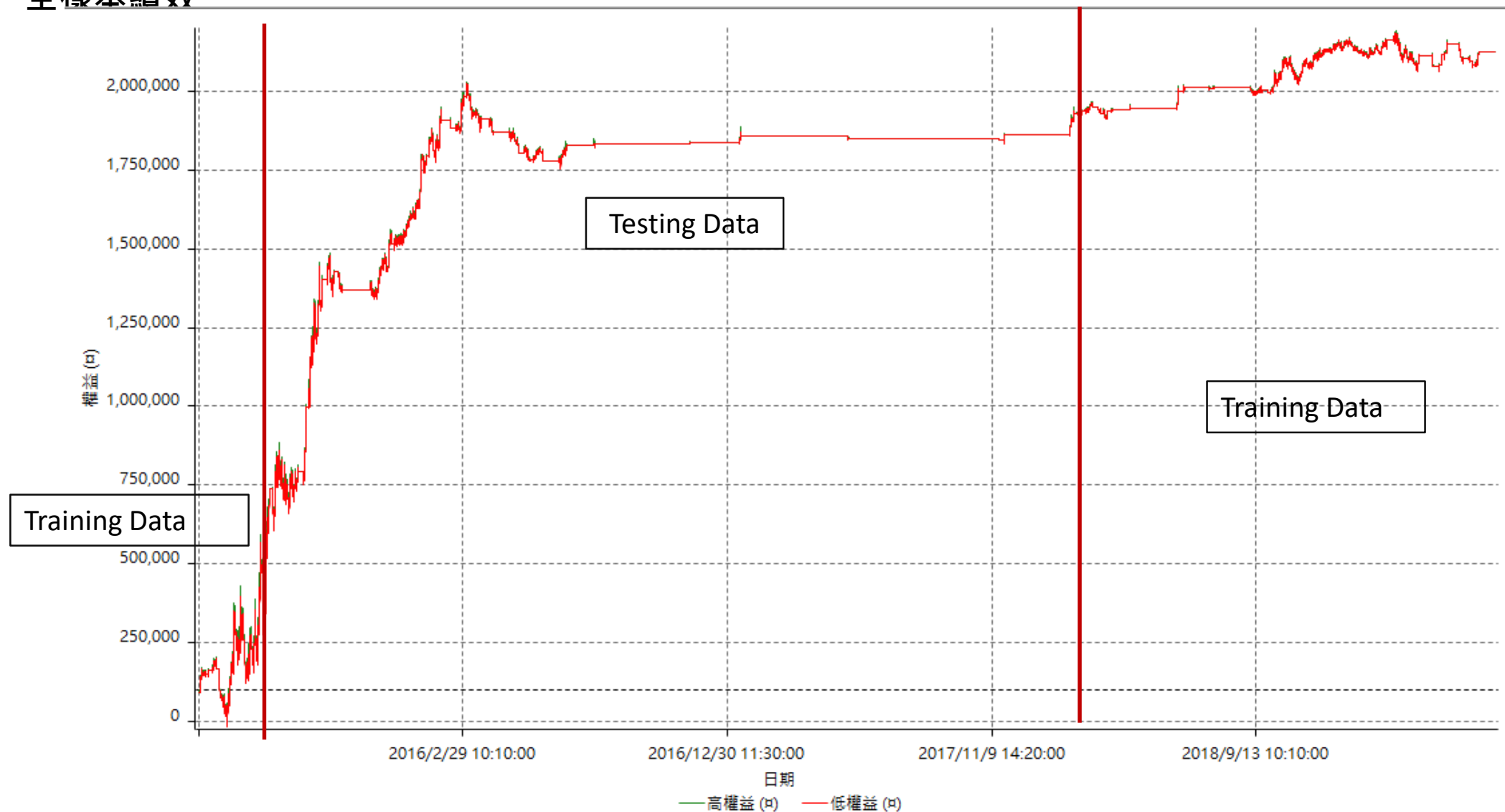
// Exit
IF MARKETPOSITION <> 0 THEN BEGIN
    SELL NEXT BAR AT VALUE5 STOP;
    BUYTOCOVER NEXT BAR AT VALUE4 STOP;
END;

// Day Close Exit
IF TIME >= 1455 THEN BEGIN
    SELL NEXT BAR MARKET;
    BUYTOCOVER NEXT BAR MARKET;
END;
```

全樣本績效

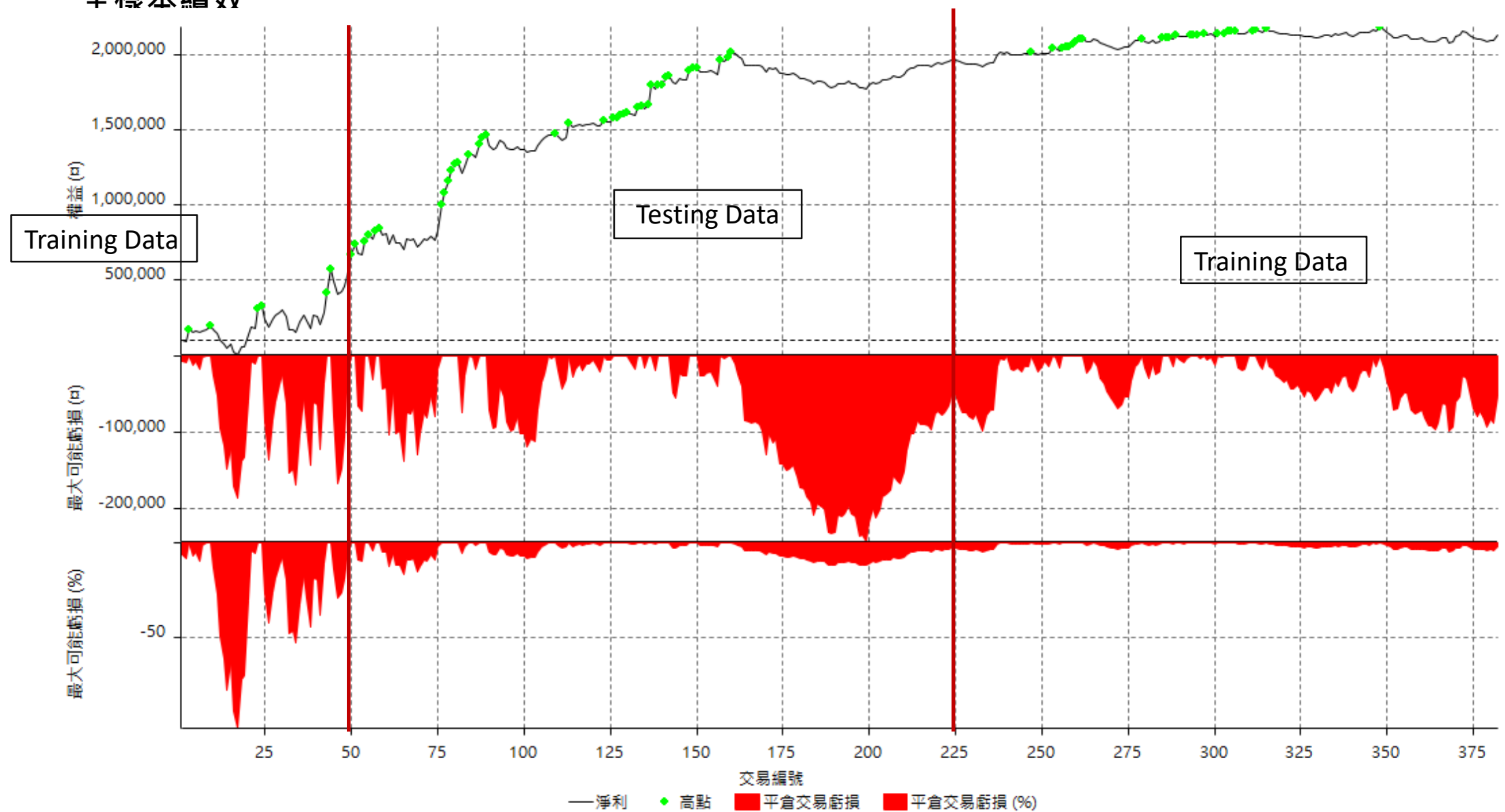
	所有交易	多單	空單
淨利	¥2023960	¥574840	¥1449120
毛利	¥4907440	¥1402800	¥3504640
毛損	(¥2883480)	(¥827960)	(¥2055520)
調整後淨利	¥1464244.51	¥274670.33	¥975353.98
調整後毛利	¥4563850.48	¥1227450	¥3208443.86
調整後毛損	(¥3099605.96)	(¥952779.67)	(¥2233089.88)
特定淨利	¥902440	¥668360	¥234080
特定毛利	¥2509720	¥1046800	¥1462920
特定毛損	(¥1607280)	(¥378440)	(¥1228840)
帳戶所需金額	¥243840	¥349200	¥225480
帳戶報酬	830.04%	164.62%	642.68%
初始資本報酬	2023.96%	574.84%	1449.12%
最大策略虧損	(¥316400)	(¥376560)	(¥268040)
最大策略虧損 (%)	(108.49%)	(103.33%)	(184.5%)
最大平倉交易虧損	(¥243840)	(¥349200)	(¥225480)
最大平倉交易虧損 (%)	(97.81%)	(99.87%)	(165.52%)
最大的策略虧損報酬	6.4	1.53	5.41
獲利因子	1.7	1.69	1.7
調整獲利因子	1.47	1.29	1.44
特定獲利因子	1.56	2.77	1.19
最大持有契約數量	1	1	1
滑價支付	¥382000	¥108000	¥274000
佣金支付	¥0	¥0	¥0
未平倉部位損益	n/a	n/a	n/a
年報酬率	483.1%	137.21%	345.89%
月報酬率	40.26%	11.43%	28.82%

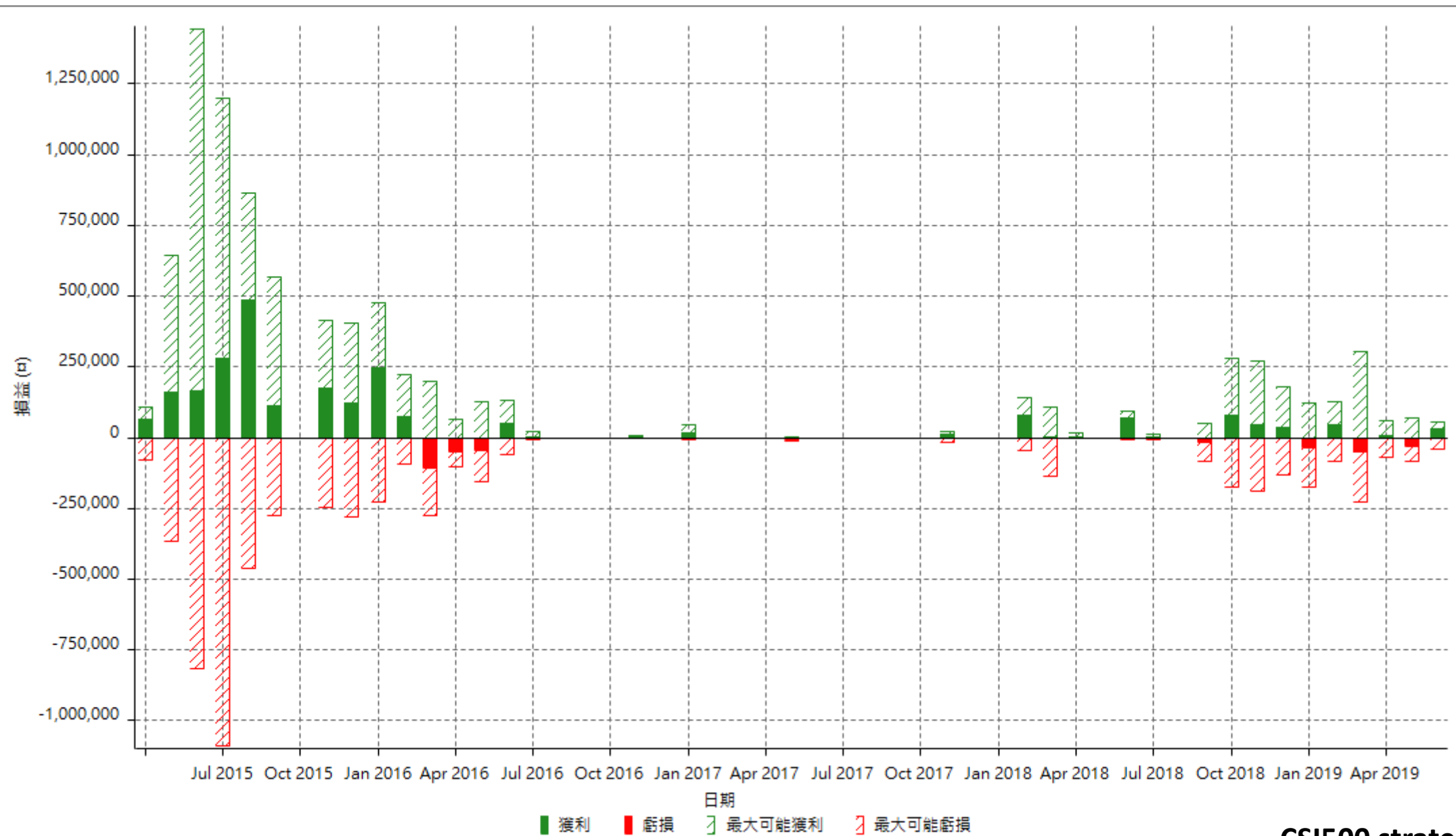
全樣本績效



CSI500 strategy

全樣本績效





CSI500 strategy

全樣本績效

期間	獲利		毛利	毛損	交易次數	勝率
	¥	%				
2019	(¥32400)	(1.5%)	¥346960	(¥379360)	71	43.66%
2018	¥294400	15.81%	¥629880	(¥335480)	101	58.42%
2017	¥23960	1.3%	¥34320	(¥10360)	4	50%
2016	¥176320	10.61%	¥650400	(¥474080)	70	47.14%
2015	¥1561680	1561.68%	¥3245880	(¥1684200)	136	58.09%

	所有交易	多單	空單
交易總次數	382	108	274
未平倉交易總數量	0	0	0
獲利交易次數	204	64	140
虧損交易次數	178	44	134
勝率	53.4%	59.26%	51.09%
平均交易(獲利 虧損)	¥5298.32	¥5322.59	¥5288.76
平均獲利交易	¥24056.08	¥21918.75	¥25033.14
平均虧損交易	(¥16199.33)	(¥18817.27)	(¥15339.7)
平均獲利/平均虧損 比率	1.49	1.16	1.63
最大的交易獲利	¥170560	¥90400	¥170560
最大的交易虧損	(¥90240)	(¥87720)	(¥90240)
平倉交易的平均K棒數	36.8	35	37.6
獲利平倉交易的平均K棒數	42.3	42.6	42.2
虧損平倉交易的平均K棒數	30.5	23.8	32.7
平倉交易間的平均K棒數	n/a	n/a	n/a
獲利平倉交易間的平均K棒數	198.4	724.8	308.6
虧損平倉交易間的平均K棒數	245.4	1092.5	333.9

*Thank
you!*