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zero_shot_relation_extraction / data_process / result_plot / **F1_Result_Plot.ipynb**

tonghaining updata F1 plot

`9f70333` 3 minutes ago

1 contributor

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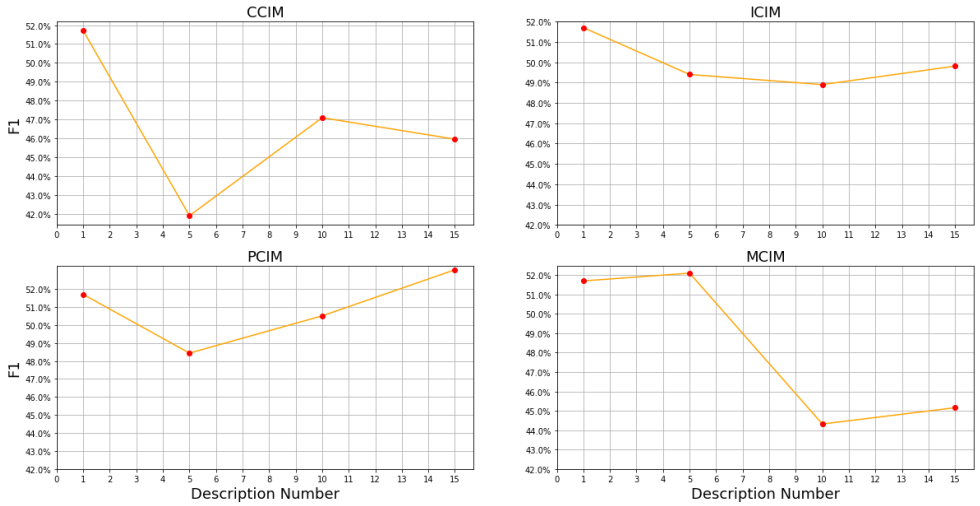
`271 lines (271 sloc)  190 KB`

In [0]:
```
import numpy as np
import importlib
import matplotlib.pyplot as plt
import matplotlib.ticker as ticker
```

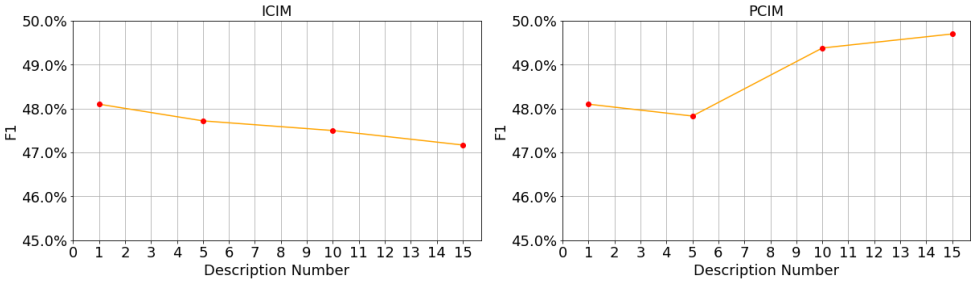
In [0]:
```
x = [1,5,10,15]
y_CCIM_1 = [51.70, 41.89, 47.09, 45.95]
y_ICIM_1 = [51.70, 49.40, 48.90, 49.81]
y_PCIM_1 = [51.70, 48.44, 50.51, 53.07]
y_MCIM_1 = [51.70, 52.10, 44.32, 45.16]

# Pre trained model
colors = ['yellowgreen', 'gold', 'lightskyblue', 'lightco
ral']

fig, axs = plt.subplots(2, 2, figsize=(20,10))

axs[0, 0].set_title('CCIM', fontsize=18)
# axs[0, 0].set_xlabel('Description Number', fontsize=18)
axs[0, 0].set_ylabel('F1', fontsize=18)
axs[0, 0].plot(x, y_CCIM_1, color='orange')
axs[0, 0].plot(x, y_CCIM_1, 'ro')
axs[0, 0].grid(True)

axs[0, 1].set_title('ICIM', fontsize=18)
# axs[0, 1].set_xlabel('Description Number', fontsize=18)
# axs[0, 1].set_ylabel('F1', fontsize=18)
axs[0, 1].plot(x, y_ICIM_1, color='orange')
axs[0, 1].plot(x, y_ICIM_1, 'ro')
axs[0, 1].grid(True)

axs[1, 0].set_title('PCIM', fontsize=18)
axs[1, 0].set_xlabel('Description Number', fontsize=18)
axs[1, 0].set_ylabel('F1', fontsize=18)
axs[1, 0].plot(x, y_PCIM_1, color='orange')
axs[1, 0].plot(x, y_PCIM_1, 'ro')
axs[1, 0].grid(True)

axs[1, 1].set_title('MCIM', fontsize=18)
axs[1, 1].set_xlabel('Description Number', fontsize=18)
# axs[1, 1].set_ylabel('F1', fontsize=18)
axs[1, 1].plot(x, y_MCIM_1, color='orange')
axs[1, 1].plot(x, y_MCIM_1, 'ro')
axs[1, 1].grid(True)

axs[0, 0].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[0, 1].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[1, 0].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[1, 1].yaxis.set_major_formatter(ticker.PercentFormatt
er())

axs[0, 0].set_xticks(list(range(0,16)))
axs[1, 0].set_xticks(list(range(0,16)))
```

```
axs[0, 1].set_xticks(list(range(0,16)))
axs[1, 1].set_xticks(list(range(0,16)))

axs[0, 0].set_yticks(list(range(42,53)))
axs[0, 1].set_yticks(list(range(42,53)))
axs[1, 0].set_yticks(list(range(42,53)))
axs[1, 1].set_yticks(list(range(42,53)))

plt.rcParams['xtick.labelsize']=18
plt.rcParams['ytick.labelsize']=18
plt.show()
```



In [0]:
```
# Pre trained model
colors = ['yellowgreen', 'gold', 'lightskyblue', 'lightcoral']

fig, axs = plt.subplots(1, 2, figsize=(20,5))

y_ICIM_2 = [48.10, 47.72, 47.50, 47.17]
y_PCIM_2 = [48.10, 47.83, 49.38, 49.70]


axs[0].set_title('ICIM', fontsize=18)
axs[0].set_xlabel('Description Number', fontsize=18)
axs[0].set_ylabel('F1', fontsize=18)
axs[0].plot(x, y_ICIM_2, color='orange')
axs[0].plot(x, y_ICIM_2, 'ro')
axs[0].grid(True)

axs[1].set_title('PCIM', fontsize=18)
axs[1].set_xlabel('Description Number', fontsize=18)
axs[1].set_ylabel('F1', fontsize=18)
axs[1].plot(x, y_PCIM_2, color='orange')
axs[1].plot(x, y_PCIM_2, 'ro')
axs[1].grid(True)

axs[0].yaxis.set_major_formatter(ticker.PercentFormatter())
axs[1].yaxis.set_major_formatter(ticker.PercentFormatter())

axs[0].set_xticks(list(range(0,16)))
```

```
axs[1].set_xticks(list(range(0,16)))

axs[0].set_yticks(list(range(45,51)))
axs[1].set_yticks(list(range(45,51)))

plt.rcParams['xtick.labelsize']=18
plt.rcParams['ytick.labelsize']=18
plt.show()
```



In [0]:
```
x = [1,5,10,15]
y_CCIM_1 = [70.21, 71.40, 71.48, 71.86]
y_ICIM_1 = [70.21, 72.71, 71.48, 73.23]
y_PCIM_1 = [70.21, 73.45, 74.03, 69.72]
y_MCIM_1 = [70.21, 73.74, 74.39, 72.65]

# Pre trained model
colors = ['yellowgreen', 'gold', 'lightskyblue', 'lightco
ral']

fig, axs = plt.subplots(2, 2, figsize=(20,10))

axs[0, 0].set_title('CCIM', fontsize=18)
# axs[0, 0].set_xlabel('Description Number', fontsize=18)
axs[0, 0].set_ylabel('F1', fontsize=18)
axs[0, 0].plot(x, y_CCIM_1, color='orange')
axs[0, 0].plot(x, y_CCIM_1, 'ro')
axs[0, 0].grid(True)

axs[0, 1].set_title('ICIM', fontsize=18)
# axs[0, 1].set_xlabel('Description Number', fontsize=18)
# axs[0, 1].set_ylabel('F1', fontsize=18)
axs[0, 1].plot(x, y_ICIM_1, color='orange')
axs[0, 1].plot(x, y_ICIM_1, 'ro')
axs[0, 1].grid(True)

axs[1, 0].set_title('PCIM', fontsize=18)
axs[1, 0].set_xlabel('Description Number', fontsize=18)
axs[1, 0].set_ylabel('F1', fontsize=18)
axs[1, 0].plot(x, y_PCIM_1, color='orange')
axs[1, 0].plot(x, y_PCIM_1, 'ro')
axs[1, 0].grid(True)

axs[1, 1].set_title('MCIM', fontsize=18)
axs[1, 1].set_xlabel('Description Number', fontsize=18)
# axs[1, 1].set_ylabel('F1', fontsize=18)
axs[1, 1].plot(x, y_MCIM_1, color='orange')
axs[1, 1].plot(x, y_MCIM_1, 'ro')
axs[1, 1].grid(True)
```

```
axs[0, 0].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[0, 1].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[1, 0].yaxis.set_major_formatter(ticker.PercentFormatt
er())
axs[1, 1].yaxis.set_major_formatter(ticker.PercentFormatt
er())

axs[0, 0].set_xticks(list(range(0,16)))
axs[1, 0].set_xticks(list(range(0,16)))
axs[0, 1].set_xticks(list(range(0,16)))
axs[1, 1].set_xticks(list(range(0,16)))

axs[0, 0].set_yticks(list(range(69,75)))
axs[0, 1].set_yticks(list(range(69,75)))
axs[1, 0].set_yticks(list(range(69,75)))
axs[1, 1].set_yticks(list(range(69,75)))

plt.rcParams['xtick.labelsize']=18
plt.rcParams['ytick.labelsize']=18
plt.show()
```