```
%
```

```
RAW=struct();

warning('off','all');
RAW.Confirmed = import_JHU_data('time_series_covid19_confirmed_global.csv');
% RAW.Deaths = import_JHU_data('time_series_covid19_deaths_global.csv');
% RAW.Recovered = import_JHU_data('time_series_covid19_recovered_global.csv');
warning('on','all');

Categories=fieldnames(RAW);

StartDate = datetime(2020,01,22);
EndDate = StartDate+days(size(RAW.(Categories{1}),2)-5);

Selected_Countries=categorical({'US','United Kingdom','Germany','Switzerland','Canada','France'
    'Singapore','Australia','India','Mauritius',...
    'Saudi Arabia','Korea, South','Italy'});
```

```
StartDate
```

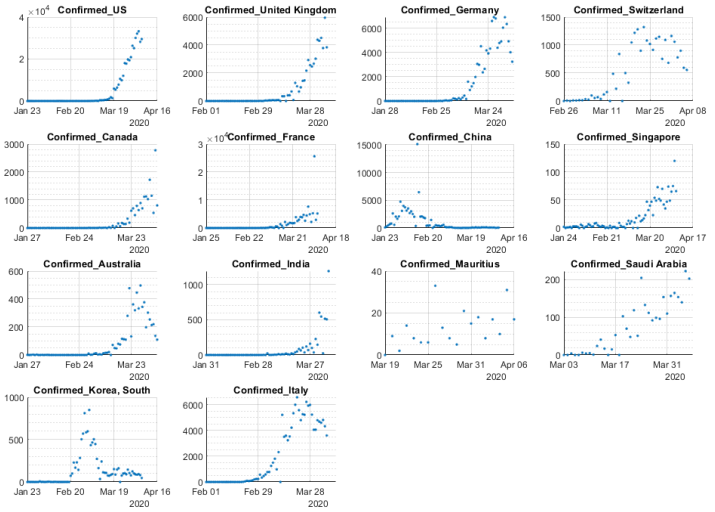
```
StartDate = datetime
   22-Jan-2020
```

```
EndDate
```

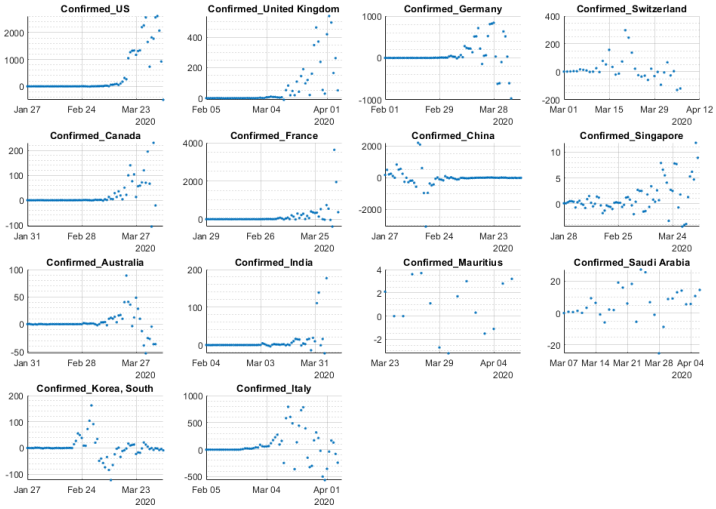
```
EndDate = datetime
   06-Apr-2020 00:00:00
```

```
gradient_span=5; %days

CountrywiseData=struct();
for category_count=1:size(Categories,1)
    plot_titles=cell(size(Selected_Countries,2),1);
    for country_count=1:size(Selected_Countries,2)
        RAW.(Categories{category_count}).Country_Region=categorical(RAW.(Categories{category_co
        Idn=RAW.(Categories{category_count}).Country_Region==Selected_Countries(country_count);
        temp=RAW.(Categories{category_count}){Idn,(5:end)};
        CountrywiseData.(Categories{category_count})(country_count,:)=sum(temp,1);
        plot_titles{country_count,1}=[char(Categories{category_count}),'_',char(Selected_Countr
    end

    fig_title=char(Categories{category_count});
    SimpleScatter(StartDate,CountrywiseData.(Categories{category_count}),fig_title,plot_titles,
end
```

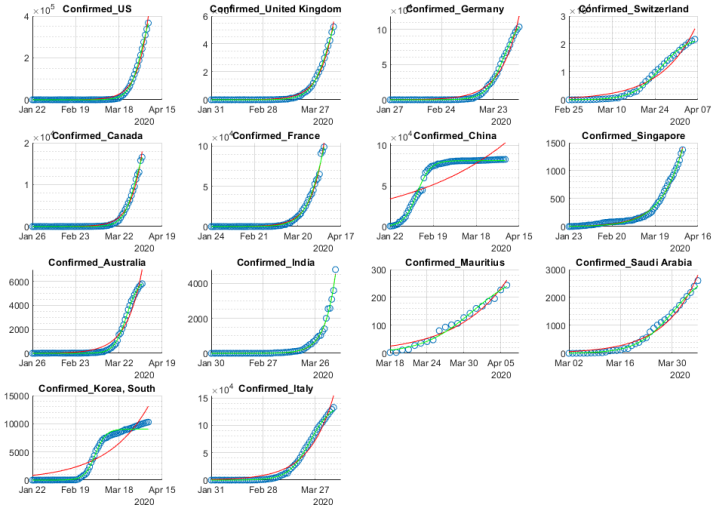
```
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 8).
DailyIncrease_Confirmed
```



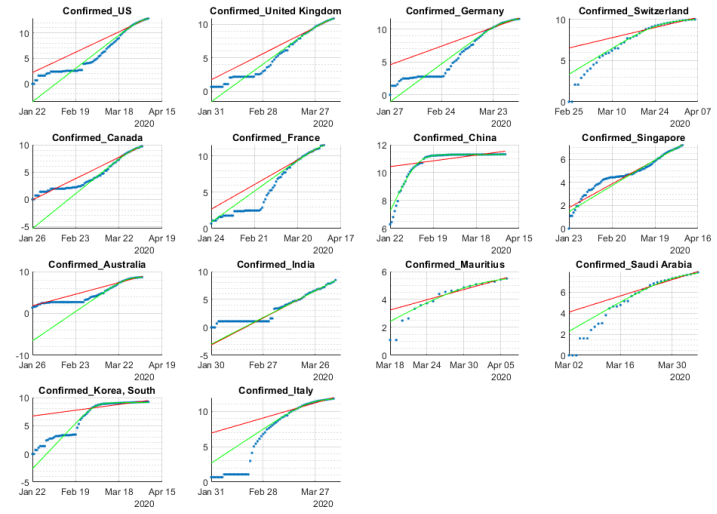
Grad of DailyIncrease_Confirmed



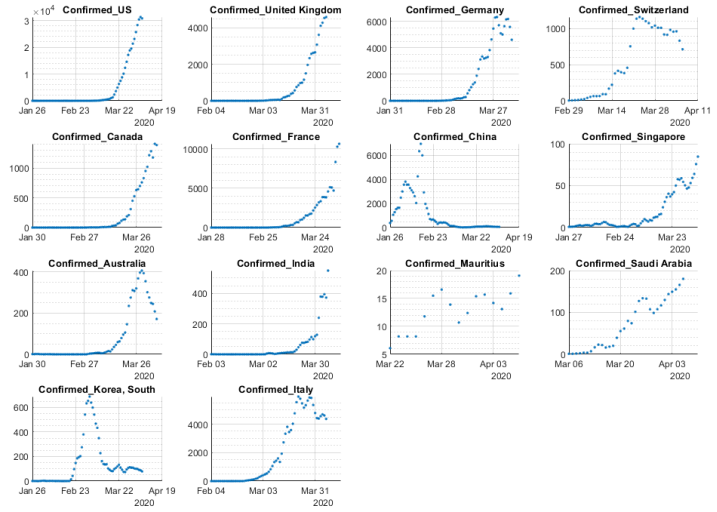
Confirmed



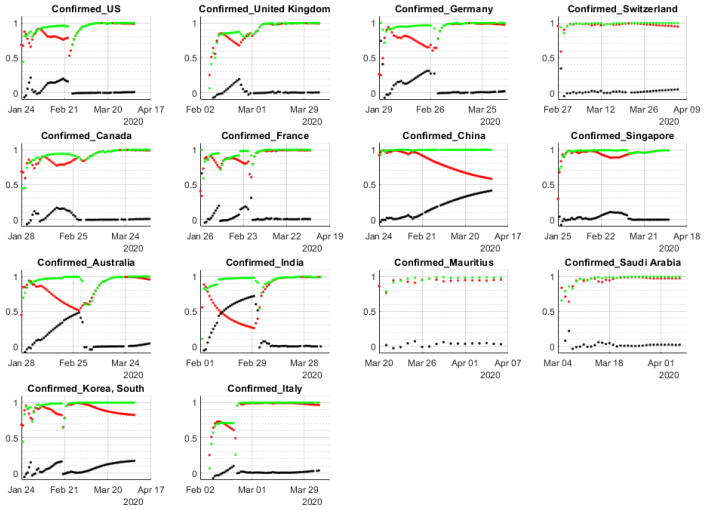
Log_Confirmed



Gradient_Confirmed



Goodness of Fit_Confirmed


Confirmed_US
Confirmed_United Kingdom
Confirmed_Germany
Confirmed_Switzerland
Confirmed_Canada
Confirmed_France
Confirmed_China
Confirmed_Singapore
Confirmed_Australia
Confirmed_India
Confirmed_Mauritius
Confirmed_Saudi Arabia
Confirmed_Korea, South
Confirmed_Italy