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Sintesis Dimensi Manipulasi Paralel Bidang 2 DOF dengan Rantai Kinematik Paralelogram Simetris # "Dimensional Synthesis of 2 DoF Planar Parallel Manipulator with Symmetric Parallelogram Chains"

Adriyan

In [1]:
```
%load_ext autoreload
%autoload 2
```

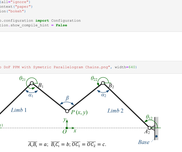
In [2]:
```
import os
import sys
import numpy as np
import pandas as pd
import folium.folium as fo
import folium.plugins
import seaborn.rcsb as sr
import matplotlib.pyplot as plt
import matplotlib.image as mpimg, imsave2D
import numpy.random as rnd

from IPython.display import Image

from pymes.algorithms.as_generic_algorithm import GA
from pymes.algorithms.ga_ga_ga import GA
from pymes.utilities.factory import get_solution,
                                    get_mutation,
                                    get_crossover,
                                    get_performance_indicator
from pymes.performance_indicator.hypo import HYPO
from pymes.visualization import scatter2d, fitness_landscape

from NPR62B80 import *

np.seterr(all="ignore")
sns.set_context("paper")
%matplotlib="inline"
```

In [3]:
```
from pymes.configuration import Configuration
Configuration.show_compile_info = False
```

In [4]:
```
# D
```

In [5]: Image("Two DOF PM with Symetric Parallelogram Chains.png", width=400)

Out[5]:



In [6]: Image("Two DOF PM with Symetric Parallelogram Chains - Workspace.png", width=525)

Out[6]:

Circular trace (normal) singularity
Circular trace (normal) singularity
Singularity
Singularity