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Machine Learning on Material Informatics Development Environment For Machine Learning 20190305-Homework 01

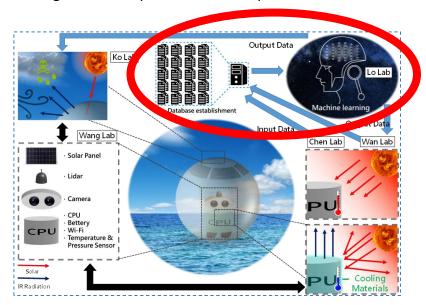
SOLUTION

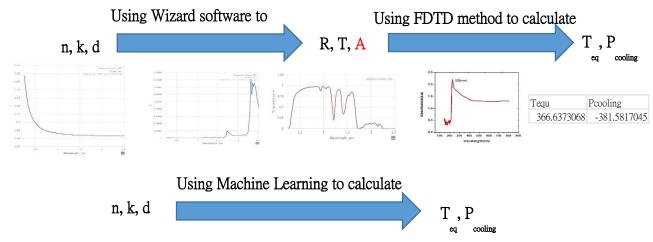
Summary

1. Project Name:

Application of intelligent bionic materials to spherical surface robots

- 2. Subproject name:
 - MGI database and optimization of material properties aims:
 - Use the simulated data to train the AI to complete the material database.
 - Establish and give the best parameters for a spherical surface robot





- Number of data:

A total of 30 kinds of materials (30 kinds of n, k) * 10 thicknesses each 300 groups in total

Note:

n : Refractive index **R** : Reflectivity **Teq** : Equilibrium temperature

k: Extinction coefficient **T**: Penetration rate **Pcooling**: Cooling power

d : Test piece thickness **A** : Absorption rate

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Machine Learning on Material Informatics Development Environment For Machine Learning 20190305-Homework 02

TASK

Ex 1: call random function 10 times only to generate 10 random numbers between 0~9

SOLUTION

import random

N = 10 start = 0

stop = 10

for i in range (N):

num = random.randint(start, stop)

print (num)

