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from smilPython import *
import time as tps
from __main__ import *
import os

imIn=Image(os.path.join(os.getcwd(),"1-006-11-25","acA1300-
200um__21923171__20180316_150601129_0002.bmp"))
imOut=Image(imIn)

def traitement(imIn,imOut):
    im3=Image(imIn) ; im4=Image(imIn) ; im5=Image(imIn) ; im6=Image(imIn) ; im7=Image(imIn)
; im8=Image(imIn) ; im9=Image(imIn) ; im10=Image(imIn) ; im11=Image(imIn) ;
im12=Image(imIn) ; im13=Image(imIn) ; im14=Image(imIn) ; im15=Image(imIn) ;
im16=Image(imIn) ; im17=Image(imIn) ; im18=Image(imIn) ; im19=Image(imIn) ;
im20=Image(imIn) ; im21=Image(imIn) ; im22=Image(imIn) ; im23=Image(imIn)

    A=minVal(imIn)
    sub(imIn,A,im3)
    compare(im3,"<",100,im3,255,im4)
    inv(im4,im4)
    drawBorder(im4,0)
    open(im4,im5,SquSE(1))
    close(im5,im5,HexSE(5))
    compare(im5,">",0,255,0,im6)
    label(im6,im7)
    compare(im7,"==",1,255,0,im8)
    compare(im7,"==",2,255,0,im9)

    open(im4,im10,HexSE(2))
    compare(im10,">",0,255,0,im11)
    B=label(im11,im12)
    compare(im12,"==",B,255,0,im13)
    compare(im12,"==",B-1,255,0,im14)

    add(im8,im9,im15)
    add(im13,im14,im16)
    add(im15,im16,imOut)

t1=tps.clock()
for i in range(1,501) :
    A=str(i).zfill(4);
    Nom='acA1300-200um__21923171__20180316_150601129_'+A+'.bmp'
    imIn=Image(os.path.join(os.getcwd(),"1-006-11-25",Nom))
    traitement(imIn,imOut)
    imOut.save("1-006-11-25"+A+".png")
t2=tps.clock()

# environ 3 minutes pour 2250 photos a 100ko...

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