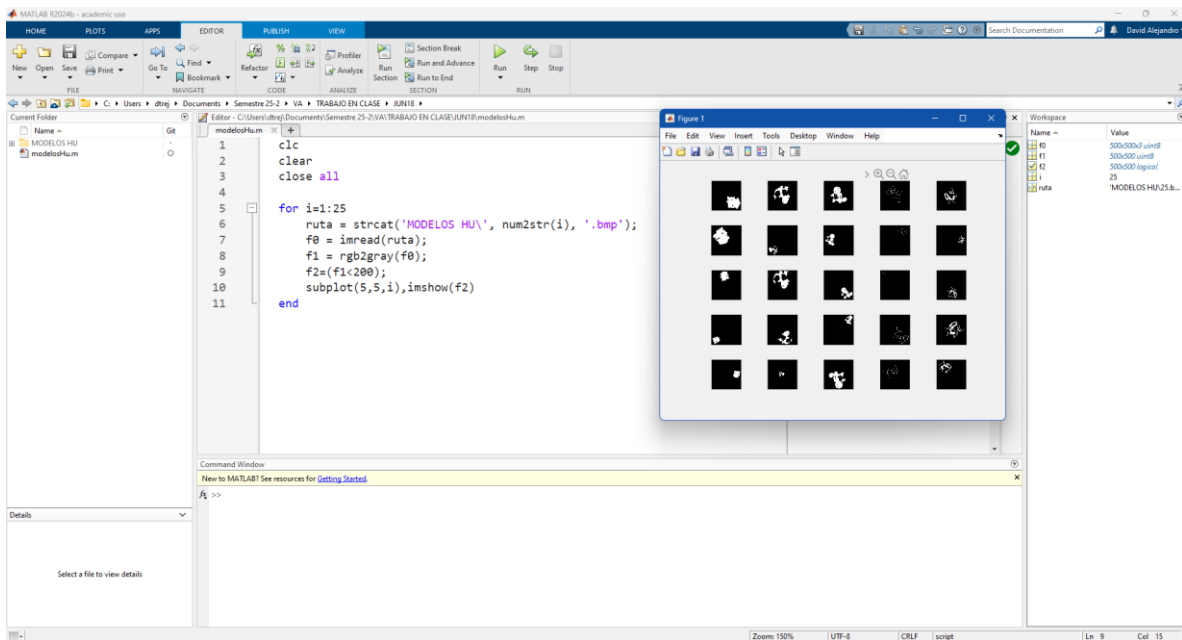
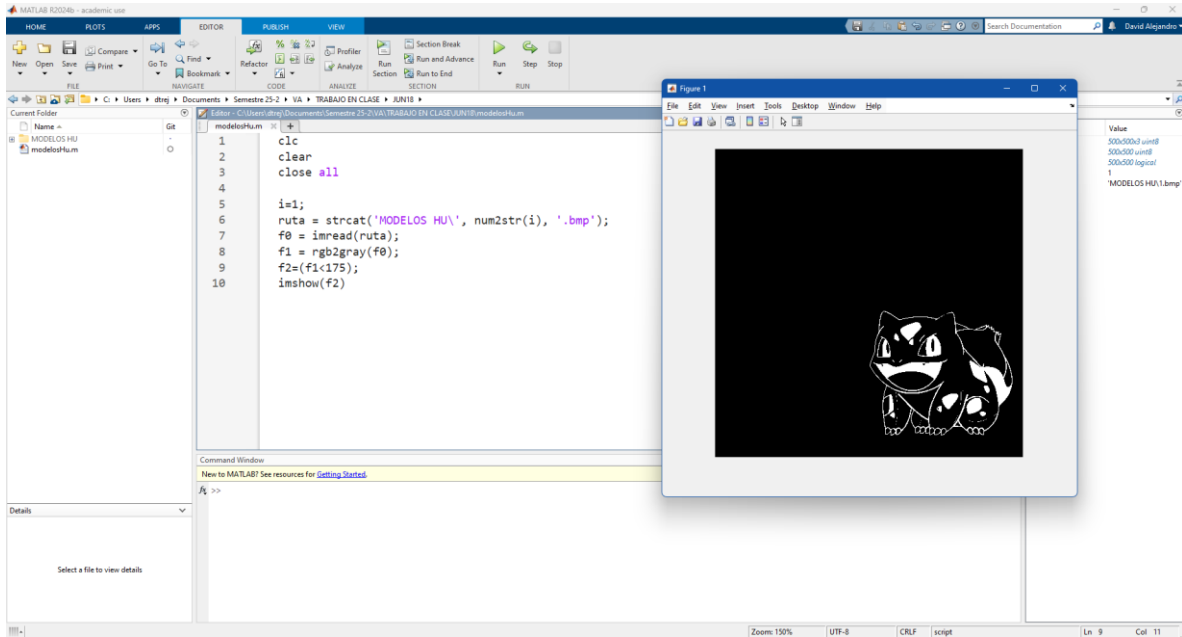
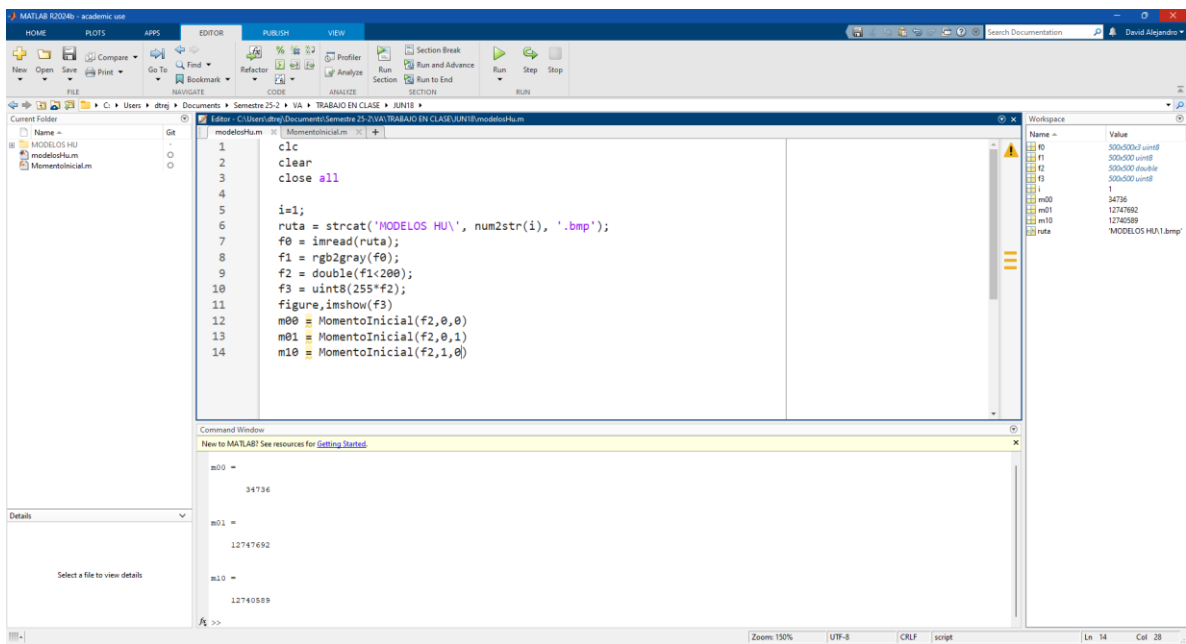
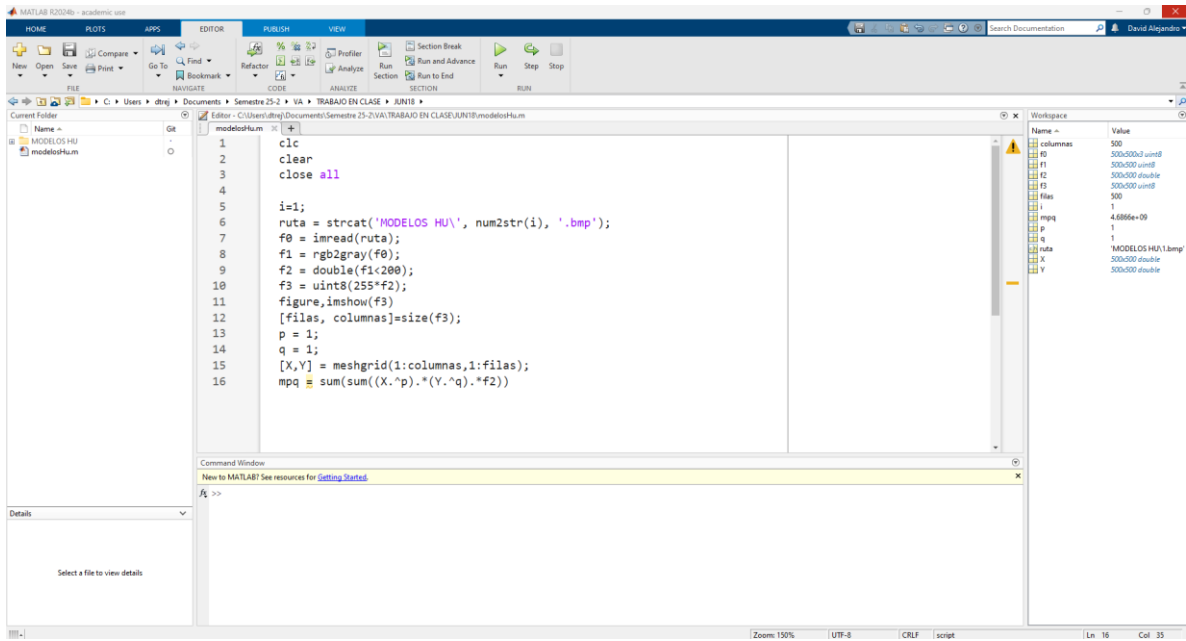
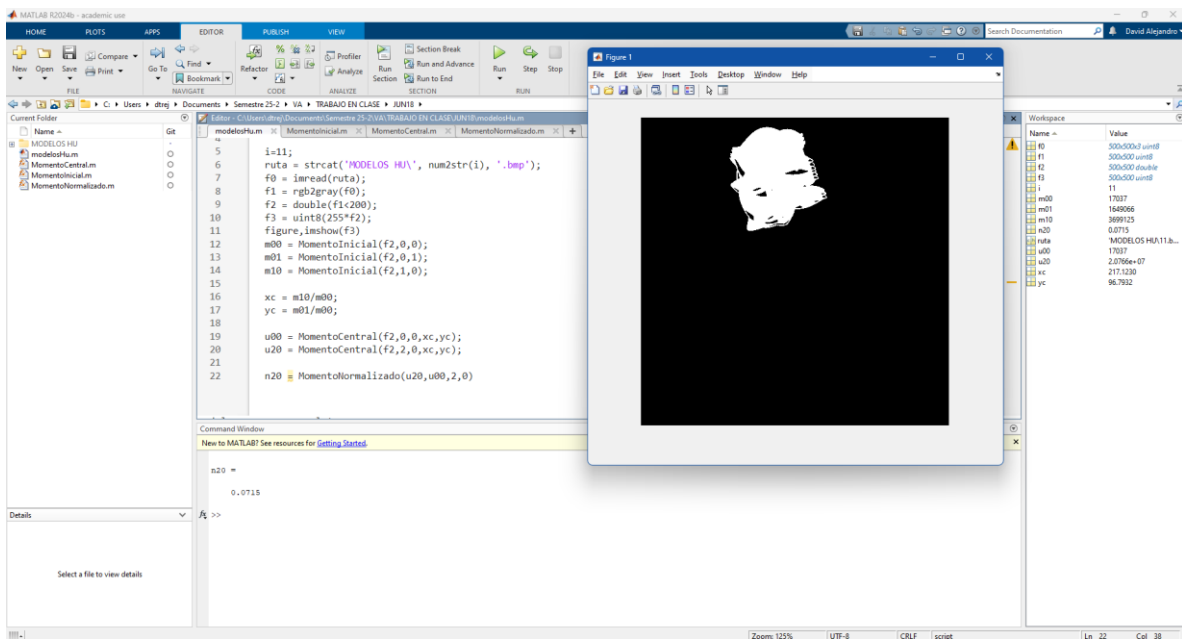
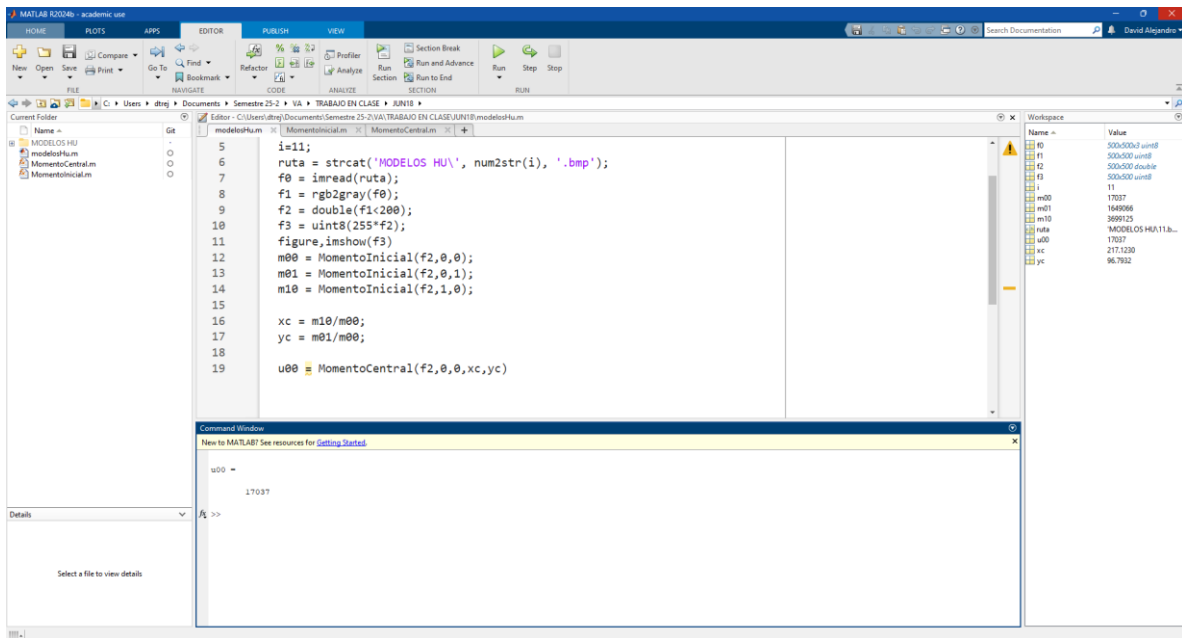


Este algoritmo nos permite detectar formas sin importar su tamaño ni orientación lo que nos puede permitir sustituir algoritmos como el de las firmas.







MATLAB R2020b - academic use

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Current Folder: C:\Users\dmg\Documents\Semestre 25-26\TRABAJO EN CLASE\JUN18\MomentoInicial.m

```

1 function mpq=MomentoInicial(f,p,q)
2 [filas, columnas]=size(f);
3 [X,Y] = meshgrid(1:columnas,1:filas);
4 mpq = sum(sum((X.^p).*(Y.^q).*f));
5 end

```

Workspace

Name	Value
f0	500x500x3 uint8
f1	500x500 uint8
f2	500x500 double
f3	500x500 uint8
i	25
m00	10488
m01	1318338
m10	1570146
m02	0.2180
m20	0.2485
phi1	0.4864
rho	MATLAB HUB 25.b...
u00	10488
u02	2.3881e+07
u20	2.7228e+07
xc	148.9948
yc	125.9589

Command Window

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fx >>

Details

Select a file to view details

Zoom: 175% UTF-8 CRLF MomentoInicial Ln 5 Col 4

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Current Folder: C:\Users\dmg\Documents\Semestre 25-26\TRABAJO EN CLASE\JUN18\MomentoCentral.m

```

1 function upq=MomentoCentral(f,p,q,xc,yc)
2 [filas, columnas]=size(f);
3 [X,Y] = meshgrid(1:columnas,1:filas);
4 upq = sum(sum(((X-xc).^p).*((Y-yc).^q).*f));
5 end

```

Workspace

Name	Value
f0	500x500x3 uint8
f1	500x500 uint8
f2	500x500 double
f3	500x500 uint8
i	25
m00	10488
m01	1318338
m10	1570146
m02	0.2180
m20	0.2485
phi1	0.4864
rho	MATLAB HUB 25.b...
u00	10488
u02	2.3881e+07
u20	2.7228e+07
xc	148.9948
yc	125.9589

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fx >>

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