

ARTICLE TYPE

# Visión Artificial - Actividad 2: Exploración de filtros espaciales y morfológicos en escenarios reales

Orejón Blázquez, Álvaro, Lopez Chamarro, Pau, Iglesias Traviesa, Nuria, and Prieto Bailo, León Enrique

Estudiantes, Universidad Internacional de La Rioja

Emails: email@email.dom; email@email.dom; email@email.dom; contact@leonprieto.com

## Abstract

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**Keywords:** keyword entry 1, keyword entry 2, keyword entry 3

## 1. Introducción

## 2. Material y métodos

### 2.1 Selección de imágenes

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#### 2.2.1 Suavizado

#### 2.2.2 Realce de bordes

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#### 2.3.2 Erosión

#### 2.3.3 Apertura

#### 2.3.4 Cierre

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### 3.2 Escenario Médico

### 3.3 Escenario Satelital

## 4. Conclusiones

## 5. Declaración de la IA

## 6. Insert A head here

This demo file is intended to serve as a “starter file”. It is for preparing manuscript submission only, not for preparing camera-ready versions of manuscripts. Manuscripts will be typeset for publication by the journal, after they have been accepted.

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## 7. Equations

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$$\begin{aligned}\frac{\partial u(t, x)}{\partial t} &= Au(t, x) \left( 1 - \frac{u(t, x)}{K} \right) - B \frac{u(t - \tau, x)w(t, x)}{1 + Eu(t - \tau, x)}, \\ \frac{\partial w(t, x)}{\partial t} &= \delta \frac{\partial^2 w(t, x)}{\partial x^2} - Cw(t, x) + D \frac{u(t - \tau, x)w(t, x)}{1 + Eu(t - \tau, x)},\end{aligned}\tag{1}$$

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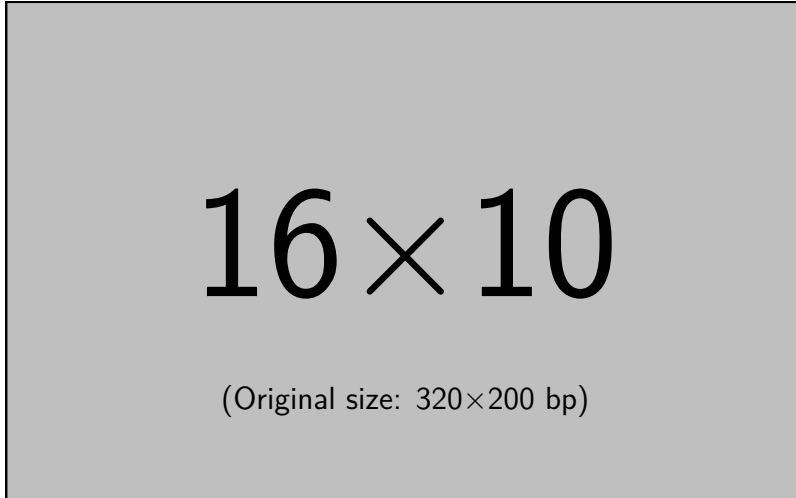
$$\begin{aligned}\frac{dU}{dt} &= \alpha U(t)(\gamma - U(t)) - \frac{U(t-\tau)W(t)}{1 + U(t-\tau)}, \\ \frac{dW}{dt} &= -W(t) + \beta \frac{U(t-\tau)W(t)}{1 + U(t-\tau)}.\end{aligned}\tag{2}$$

$$\begin{aligned}\frac{\partial(F_1, F_2)}{\partial(c, \omega)}\bigg|_{(c_0, \omega_0)} &= \begin{vmatrix} \frac{\partial F_1}{\partial c} & \frac{\partial F_1}{\partial \omega} \\ \frac{\partial F_2}{\partial c} & \frac{\partial F_2}{\partial \omega} \end{vmatrix}\bigg|_{(c_0, \omega_0)} \\ &= -4c_0q\omega_0 - 4c_0\omega_0p^2 = -4c_0\omega_0(q + p^2) > 0.\end{aligned}$$

## 8. Figures & Tables

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**Figure 1.** Insert figure caption here

See example table in Table 1.

## 9. Conclusion

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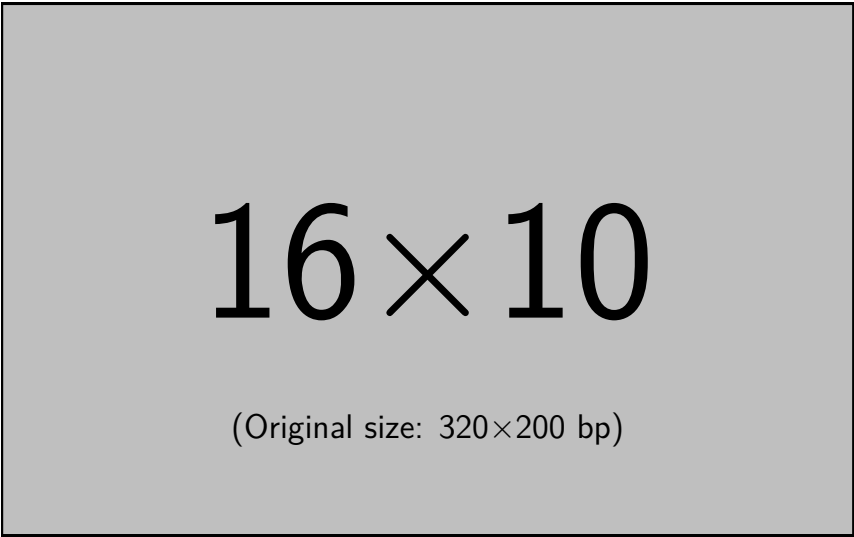


Figure 2. Insert figure caption here

Table 1. An Example of a Table

Column head 1	Column head 2	Column head 3	Column head 4
One <sup>a</sup>	Two	three three	four
Three	Four	three three <sup>b</sup>	four

Table note  
a First note  
b Another table note

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**Ethical Standards** The research meets all ethical guidelines, including adherence to the legal requirements of the study country.

**Author Contributions** Please provide an author contributions statement using the CRediT taxonomy roles as a guide \url{https://www.casrai.org/credit.html}. Conceptualization: A.A; A.B. Methodology: A.A; A.B. Data curation: A.C. Data visualisation: A.C. Writing original draft: A.A; A.B. All authors approved the final submitted draft.

## Notes

1 A footnote/endnote

2 Another footnote/endnote

## References

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Adade, Camila M, Solange L de Castro, and Maurilio J Soares. 2007. Ultrastructural localization of *Trypanosoma cruzi* lysosomes by aryl sulphatase cytochemistry. *Micron* 38 (3): 252–256.

Bayer-Santos, Ethel, Clemente Aguilar-Bonavides, Silas Pessini Rodrigues, Esteban Maurício Cordero, Alexandre Ferreira Marques, Armando Varela-Ramirez, Hyungwon Choi, Nobuko Yoshida, José Franco Da Silveira, and Igor C Almeida. 2013. Proteomic analysis of trypanosoma cruzi secretome: characterization of two populations of extracellular vesicles and soluble proteins. *Journal of Proteome Research* 12 (2): 883–897.

## Appendix 1. Example Appendix Section

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