

## Simple elections at a lower cost thanks to an electronic voting system

**LOCATION:** Palos de la Frontera, Huelva

**DURATION:** 1'29"

**SUMMARY:** Diego Antonio López, a researcher from the Electronic and Mechatronic Systems Group at the University of Huelva, has created a new electronic voting system for general elections. Its simplicity is due to it needing only a low power computer server. Therefore, lowering its cost. At the same time, it has a user identification system with a double security filter that guarantees you being on the electoral register and your anonymity. The system will remain available to any organisation that wants to use it as free software.

### VTR:

The way we vote could become a memory of the past. A researcher from the University of Huelva is installing an electronic voting system available on any device connected to the internet. He has developed a new low cost, more secure system that could be used in the near future.

**DIEGO A. LÓPEZ**  
University of Huelva Researcher

*"It allows the user to check that their vote is counted as and when it has been cast, that's not allowed with a traditional ballot box. So it's completely different, it's safer than traditional ballot boxes."*

The user signs up using a digital certificate which in Spain is issued by the Fábrica de Moneda y Timbre. The first security filter. Then, its own system creates another in a matter of seconds.

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University of Huelva Researcher

*"Then, there's a procedure which is called blind signature, which gives you the key, an alias created by the user. The system makes sure the voter is registered, guaranteeing privacy."*

Which is vital in an electoral process. The system would work through a simple website designed for the election. It allows for voting and also idea input in an online open debate. As its simplicity requires a low power server, it's cheap. Cheaper, certainly, than a vote in person with ballots and all the infrastructure required.

**DIEGO A. LÓPEZ**  
University of Huelva Researcher

*"I would like to leave this as free software, so, everyone can download this system and apply it to any webpage they're developing. Which hopefully is in the public domain."*

It's a contribution to political and social institutions by this professor from the University of Huelva.

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