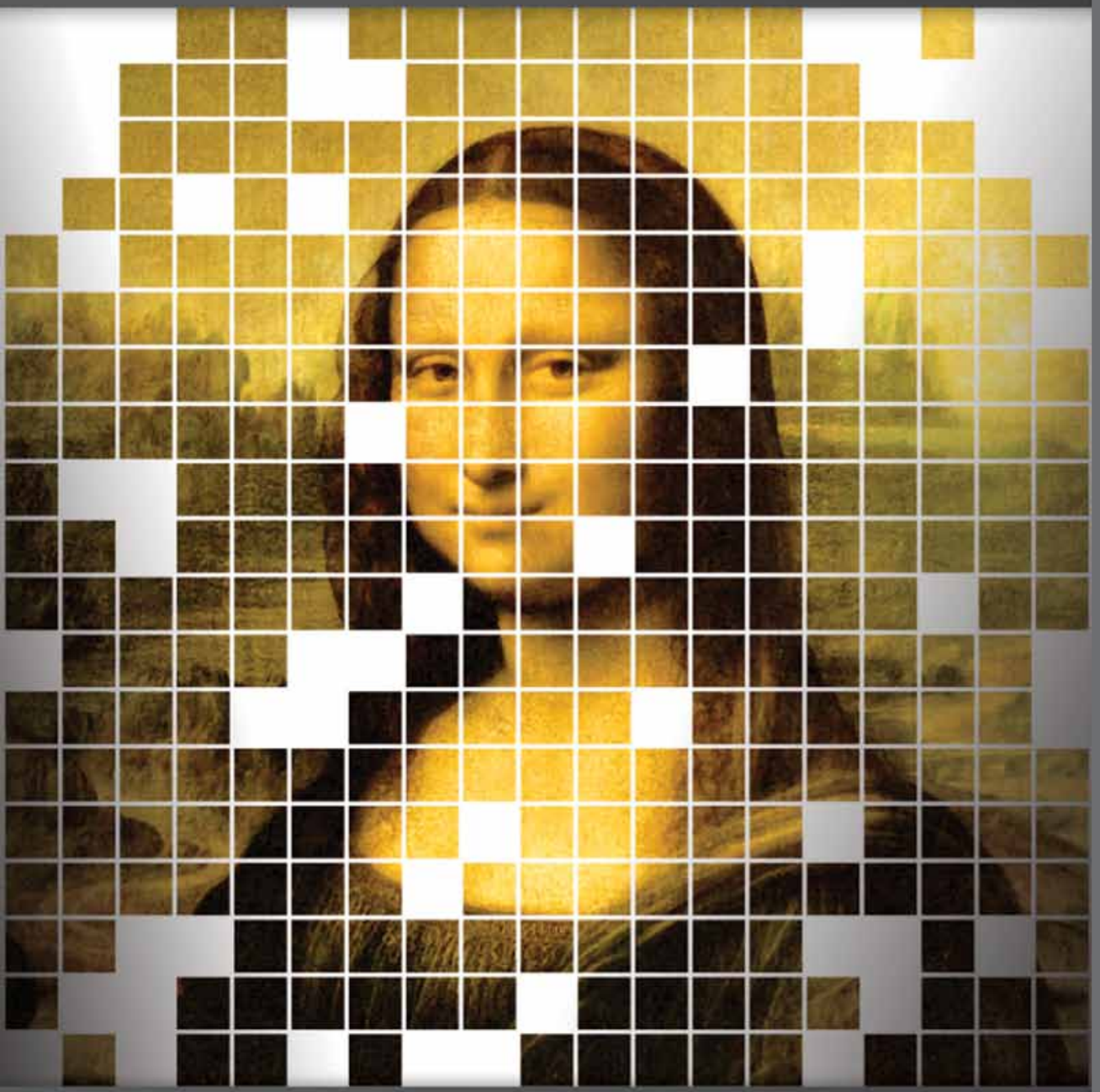
JAVAD

Mona Lisa is back ...



Last time for SA
This time for AS

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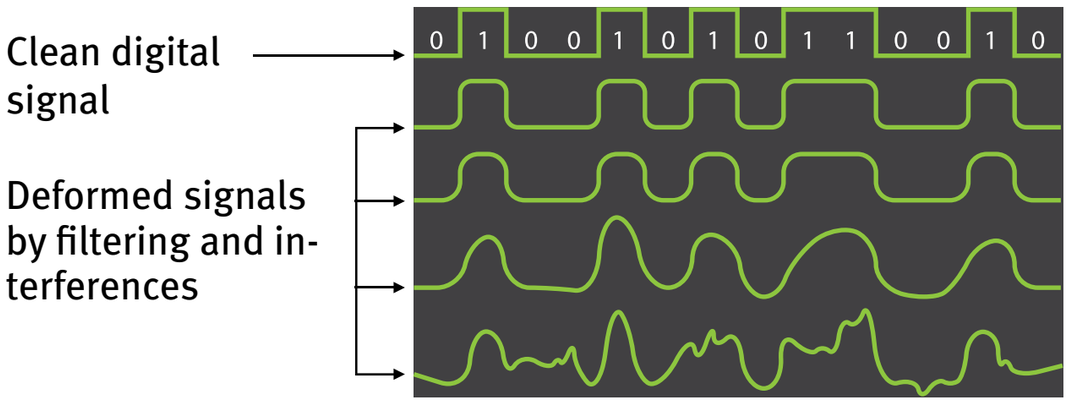
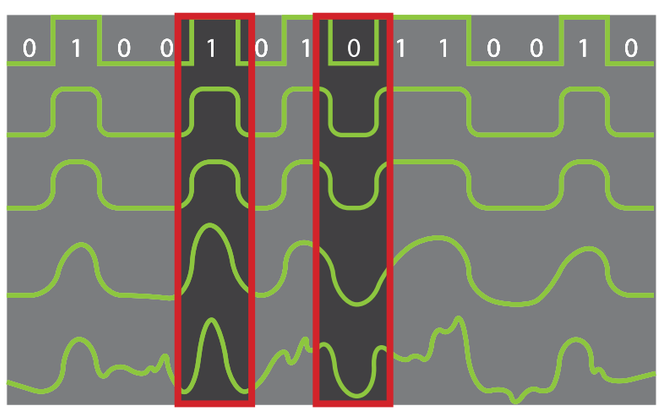
GNSS is affected more by inteferences

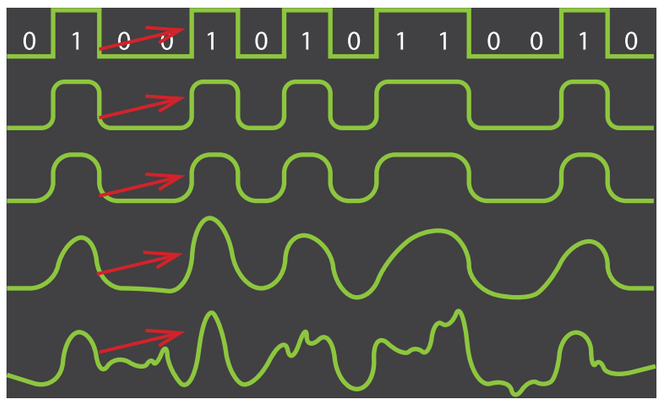
High precision GNSS receivers are more sensitive to interferences because GPS digital signals are used for “ranging”.



Communication devices recover “1”’s and “o”’s of a digital signal in all signal examples shown in this graph.



GNSS receivers need to measure distances by marking the arrival times of signals. Hence signals need to have clean and sharp edges to clearly mark the arrival times.



Policy to encrypt P-codes is outdated

Encrypting P-codes has made GPS 1,000 times more vulnerable to interferences, especially for high precision applications. Encrypting should be done only where and when needed.

Policy to Encrypt P-codes is over 30 years old.

Then it was against Soviet Union. We had missiles targeted at each other. Now Soviet union is gone and Russia is our friend.

Then Russia did not have GNSS. Now Russia has its own GLONASS with un-encrypted P-codes.

Then there was “Iron Curtain”. Now Presidents Obama and Medvedev signed 3-year visa exchange programs.

Then the concept of using GPS for high precision application did not exist. Now GPS is used in high precision applications with huge economical benefits.

Then there was no concept of broadband usage (like LightSquared). P-codes encryption makes GPS much more vulnerable to LightSquared.

Then P-codes were the only codes for military usages. Now U.S. Military has a new plan for its signals.

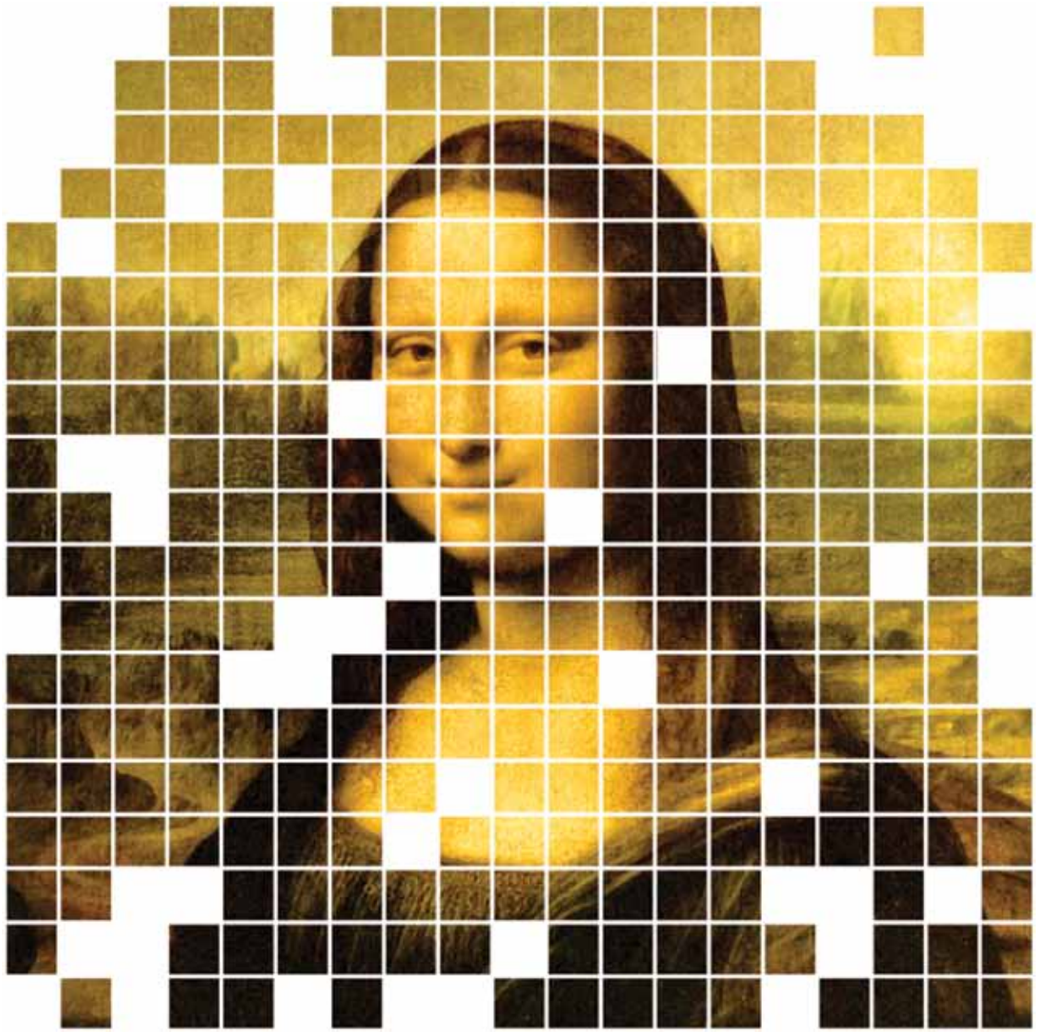
Since its inception, GPS in general and P-codes in particular was never used to attack U.S. national security.

GLONASS P-codes never encrypted and Russians national security did not suffer. Reliable RTK is not possible without combining GPS and GLONASS.

Since the inception no benefit came from encrypting P-codes, but all precision users suffered by a factor of 1,000.

P-codes encryption, bad science and bad politics

Our campaign against Selective Availability was successful. Please join the efforts to end P-codes encryption now.

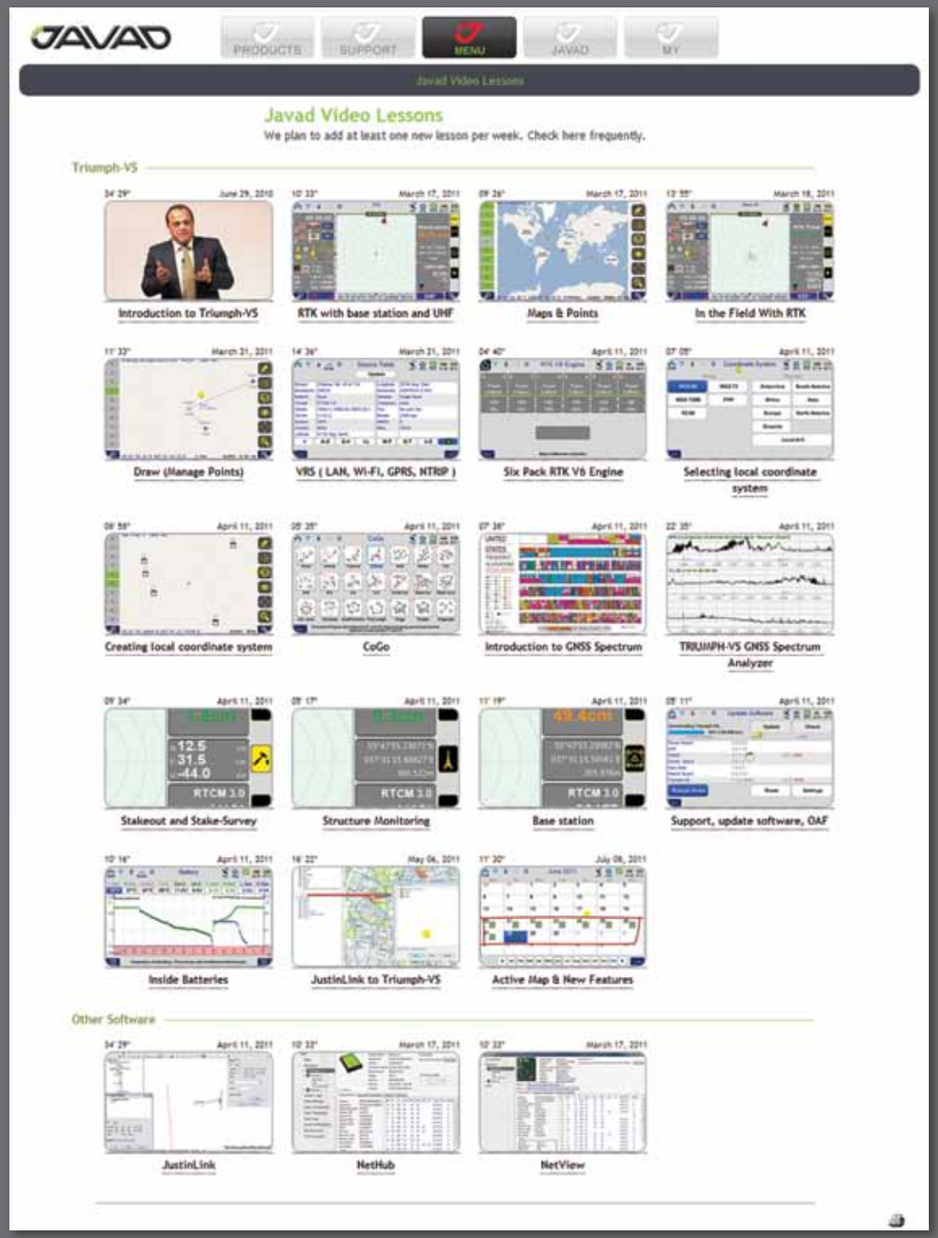


Encrypting GPS P-codes is a step backward in providing the best of this excellent work of science and art. As the leader in GPS technology, we consider P-codes encryption as being neither good science nor good politics.

Petitions to President Obama

Please see video and sign the petition at javad.com to end P-codes encryptions. Also contact your local representatives.

www.javad.com
Video Lessons



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