



**Guardia di Finanza**  
Economic impact of digital crimes



**Economic impact of digital crimes**  
**Guardia di Finanza's activities against cybercrime**

Vienna, January 22, 2018.

<http://www.gdf.gov.it>



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**Guardia di Finanza**

The Corps is a military Police Force reporting directly to the Minister of Economy and Finance



It has general economic and financial crime-fighting competences.

<http://www.gdf.gov.it>



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### Scenario - Evolution of (cyber)crime

AlphaBay Market

Bitcoin

ETHEREUM

MONERO

BitcoinCash

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### Scenario – Evolution of (cyber)crime

The screenshot displays the Silk Road marketplace interface. On the left, a navigation menu lists various categories such as Alcohol, Apparel, Art, Biotech materials, Books, Collectibles, Custom Orders, Digital goods, Drug paraphernalia, Drugs, Electronics, Erotica, Forgeries, Hardware, Herbs & Supplements, Jewelry, Lab Supplies, Lotteries & games, Medical, Money, Packaging, and Escrow. The main area shows product listings for 'Ray Ban RB3025 112 Aviator Flash Lenses Sunglasses Replica' and 'Rolex - Daytona 2-Tone White Dial ETA [AAA+]'. A diagram titled 'Conflict reduction mechanisms' illustrates the interaction between a 'SELLER', 'ESROW SERVICE', and a 'BUYER'.

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### Scenario – Cyberspace

The visualization depicts a digital cyberspace environment. It features a central globe with glowing data streams and connections. In the foreground, there is a large, glowing fingerprint, a cloud icon labeled 'WebSite Web', and another cloud icon labeled 'Keep Web'. A 'Tor' logo is visible in the bottom right corner. The background is filled with abstract digital patterns and data visualizations.

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## Scenario – «Vetrine Opache» Operation

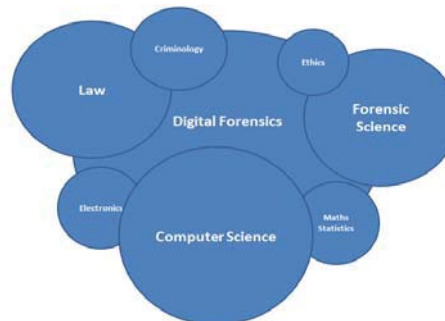
The screenshot shows three Google search results. The first search is for "no prescription" site.edu, showing results for generic drugs like Prozac and Synthroid. The second search is for "rolex site.edu", showing images of Rolex watches and links to Rolex replicas. The third search is for "gucci" "vuitton" cheap site.edu, showing results for cheap outlets of luxury brands.

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## Digital Forensics

Def. “Relating to the use of computer science or technology in the investigation and establishment of facts or evidence in a court of law”.



<http://www.gdf.gov.it>



Digital Forensics



Computer Forensics



Live Forensics



Mobile Forensics



Network Forensics



Whatever Forensics



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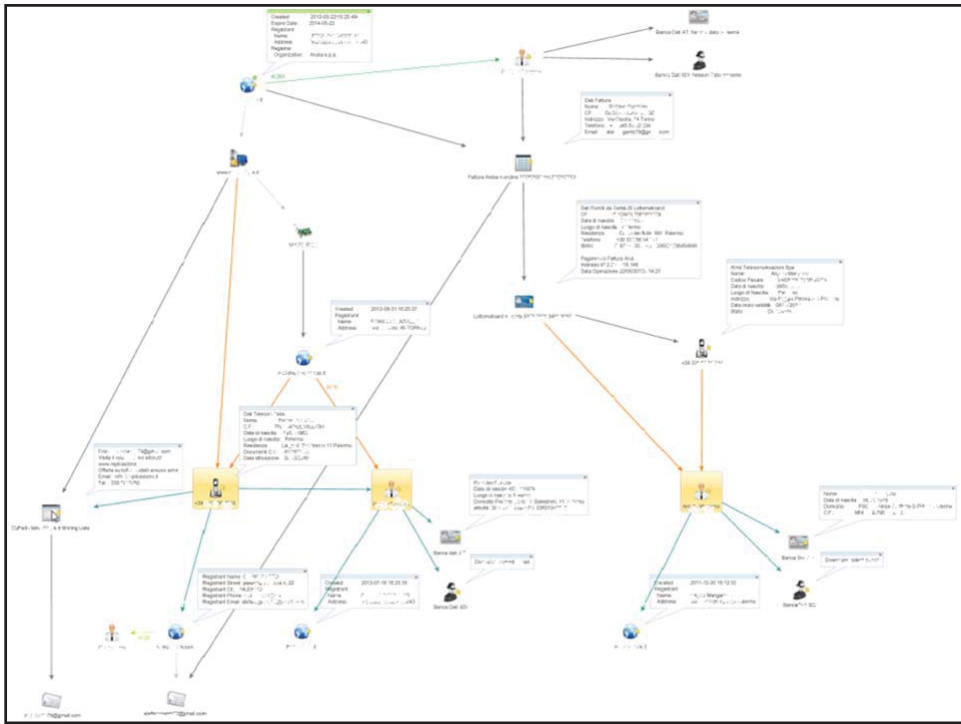
Difficulties in this scenario

Obstacles to investigations:

1. [https://en.wikipedia.org/wiki/CSI\\_effect](https://en.wikipedia.org/wiki/CSI_effect) ;
2. victims don't preserve digital evidences of crimes;
3. too short ISP data-retention time;
4. trans-nationality of Internet;
5. insufficient cooperation from countries where criminals place their operational bases.



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Course of action

Today, criminal organizations make intensive use of technologies and, most of all, Internet.



- strengthening of the “*Nucleo Speciale Frodi Tecnologiche*”, a GDF Special Department;
- training on «*Digital Forensics and Data Analysis*».



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## International and National Cooperation



- Public Institutions
- Universities
- Research Centers
- Private Sector



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## S.I.A.C. – "What can we do to fight online counterfeiting?"

The screenshot shows the S.I.A.C. website with a navigation bar at the top containing links for 'EN', 'What is counterfeiting?', 'What is the S.I.A.C.?', 'FAQ', 'COMPANIES AREA', and 'Library'. The main content area features a large heading 'Protect your company from counterfeiting' with a sub-heading 'Request registration with S.I.A.C. and start protecting your trademark now'. Below this are three columns of text: 'What is it?', 'How does it work?', and 'Why is it beneficial?'. The 'What is it?' section lists: 'S.I.A.C. - Anti-Counterfeiting Information System', 'The Guardia di Finanza's new anti-counterfeiting portal', and 'A new instrument to protect your work'. The 'How does it work?' section lists: 'register', 'access the portal', and 'contribute by uploading photos and information about your trademarks and products'. The 'Why is it beneficial?' section lists: 'it helps the Guardia di Finanza to select the best cases', 'you can access the seizure statistics', and 'you have a preferential channel to communicate with the Guardia di Finanza'. A 'Request registration' button is located at the bottom of the main content area. On the right side, there is a 'Login' section with 'Already registered? Access' and 'You are not registered? Request registration' links. The footer includes the S.I.A.C. logo and logos of partner organizations: Ministero delle Interni, SIFB, and LIBRI.

<https://siac.gdf.it>



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**Thank you for your attention!!!**



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