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Why cyber security does not depend just on IT developments?

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Now a days, living in the 21st information century the IT progress is constantly changing our lives. Today due to the Internet connectivity and Web2/Web3 phenomena the technologies are everywhere in the daily round, starting from the mobile smart phones, tablets, net books, intelligent home equipment, transport, web game entertainments, torrents, e-books and even replacing the regular communication with social networks.

Evidently, as Toffler predicted the 'third wave' of the new global information age with unclear boundaries and constantly progressing game rules for more than a billion users progressing count is already a fact. But, are really the technologies threating us – the 'human factors' or this is just the next stage of the mankind evolution? This rather complex question does not certainly have a simple and unique answer because of its multi aspect great number of features, generating instability from birth.

Anyway, the technological influence has produced a number of phenomena like SCADA Stuxnet and Duku worm attacks together with the social revolutions attributed to Wiki Leaks and Face book.

In support to the cyberspace importance could be enumerated a lot of different research activities inspired from, e.g. by: UN Internet Governance Forums, NATO Cyber Defence Policy, Digital Agenda for Europe, US DoD Strategy for operating in Cyberspace, some industrial and non-governmental efforts, to mention: European Network and Information Security Agency, CISCO, Google, Microsoft, Symantec and Sophos annual technological reports, EU Future Internet Assembly, Building International Cooperation for Trustworthy ICT: Security, Privacy and Trust in Global Networks & Services, SySSec European Network of Excellence in Managing Threats and Vulnerabilities in the Future Internet: Europe for the World, DCAF Horizon 2015 cyber security Working Papers and George C. Marshall European Centre for Security Studies per Concordiam cyber security related publications and courses.

The above short list is certainly not comprehensive enough but evidently draws significant key players from the security field in the cyber world.

One more thing to be noted for this problematic concerning the 'human factors' are the cyber-physical systems, but the so called 'smart weapons' and their humanity regarding the famous Asimov's robotic laws, which now a days are becoming rather contradictory and quite arguable.

Finally, what however could be positively concluded for the 'human factors' and the technological progress as a whole is that there exists some kind of a Wiener's bi-directional cyber interrelation between people and technologies and the good news is that we - the human factors are responsible for its control, at least by now…

With this encouraging introduction we are welcoming our author to publish their research papers on the cyber security topics in the OMICS Journal of Defense Management for the new 2012!

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