

Main tendencies of the Internet development in the future and new Internet professions

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Abstract – *The prospects of the emergence of new IT-professions are considered, according to the latest forecasts of the future development of the Internet.*

Keywords – the Internet, information activities, the future, IT-professions.

I. Introduction

According to the research of Ukrainian Internet Association, in Ukraine, by the beginning of 2017, 21.6 million Internet users have been charged and internet penetration is 64.8%. [1]. In this context, enormous prospects for the Internet professions will open up. New degree programme Documentation Science and Information Activities in Lviv Polytechnic National University offers a wide range of online trades that already occupy the highest positions in the ratings of employers. But, according to recent forecasts of Internet development, the list of such professions will expand considerably. The purpose of our research is to determine the perspectives of IT-professions, taking into account the latest forecasts of the future development of the Internet.

II. Modern Internet services predicted by science-fiction writers of XIX-XX centuries

Various science-fiction writers imagined a world with some characteristics of the internet, to be sure. Mark Twain in 1898, in one of his least compelling stories, imagined a “telectroscope” that would allow people to use a phonelike object to view locations around the world. He imagined that thanks to the telectroscope, “the daily doings of the globe” would become fodder for worldwide gossip and discussion (read social networks!), but that wasn’t different from the old-fashioned telephone party lines.

Later on, writers like William Gibson, in his 1984 novel “Neuromancer”, and David Brin, in his 1990 book “Earth”, imagined something closer. But by then, the nascent beginning of the internet was already emerging in the scientific community, at least. In any case, by no means did anything like the internet ever become as ubiquitous in science fiction as teleportation in its various guises, antigravity cars, warp drive, hyperdrive, wormholes, or any of the other standbys for getting from one place to another faster than light can travel. On “Star Trek”, humans talked to computers – they even used something like floppy disks and memory sticks – but nowhere did crew members get information from ethereal

machines whose locations and identities were otherwise unknown. Large-scale central computers that governed whole societies were imagined, but not a diffuse network of machines, including home refrigerators and pocket-size computers, on which users’ identities were unknown [2].

This is not to disparage science-fiction writers. Their job is not to predict the future – it’s to imagine it based on current trends. That’s what’s so amazing about the internet: The ubiquitous World Wide Web arose from an unexpected place. Indeed, perhaps the most remarkable thing about the internet is that necessity was the mother of its invention.

III. Main tendencies of Internet development: expert predictions

The Internet has changed our lifestyle: how we communicate, express ourselves, get information and do the shopping at last. But, unfortunately, the Internet is killing the traditional way of getting news – newspapers and magazines. A lot of people create their own media – create blogs, share the information via social networks, for example, Facebook, Twitter, Instagram and others. The Internet greatly changes the way how we do business. At lot of press conferences are conducted through Skype, the mail is sent to e-mail boxes, and a lot of contracts are sighed through the Internet. Nevertheless, with the positive changes of the Internet also come negative ones. Hackers have become more advanced and have created viruses and other threats to attack people’s computers through the Internet and steal the information or money. So, we have talked a little bit about Internet in the past and nowadays. Now we want to tell you about some predictions.

The Internet and the World Wide Web are still relatively young. The public web is only 25, and like most twenty-something it still has a lot of growing up to do. While debate continues on net neutrality, privacy and architecture of the Internet, there are some agreements about the future of the Internet over the next 10 years.

As part of a series of reports marking the 25th birthday of the web, Pew Research Center’s Internet Project, in partnership with Elon University’s Imagining the Internet Project, asked nearly 1,500 Internet experts open ended questions about the future of the web. The majority believes that the Internet will become like electricity during the next decade, less visible but more important and embedded in everyday life. But while the experts agreed on how Internet will continue to grow, they disagreed on the implications.

The predictions the future of the Internet from the Digital Life in 2025:

- Information sharing over the Internet will be so effortlessly interwoven into daily life that it will become invisible, flowing like electricity, often through machine intermediaries.
- The spread of the Internet will enhance global connectivity, fostering more positive relationships among societies.
- The Internet of Things, artificial intelligence and big data will make people more aware of their world and their own behavior.

- Augmented reality and wearable devices will be implemented to monitor and give quick feedback on daily life, especially in regard to personal health.
- Political awareness and action will be facilitated and more peaceful.
- An Internet-enabled revolution in education will spread more opportunities with less money spent on buildings and teachers.
- Dangerous divides between haves and have-nots may expand, resulting in resentment and possible violence.
- Pressured by these changes, governments and corporations will try to assert power – and at times succeed – as they invoke security and cultural norms.
- People will continue – sometimes grudgingly – to make tradeoffs favoring convenience and perceived immediate gains over privacy; and privacy will be something only the upscale will enjoy.
- Humans and their current organizations may not respond quickly enough to challenges presented by complex networks.
- Most people are not yet noticing the profound changes today's communications networks are already bringing about; these networks will be even more disruptive in the future [3].

Some examples of the Internet in the future one can find even in popular films and animated serials. The Simpsons is an American animated sitcom. It is popular because of the prediction about Trump becoming a president of the USA. So, what they say about internet? Ultraneet (as they call the future internet) is a system that is a clear descendent of the contemporary internet. It was developed sometime before 2041. The system allows those to “plug in,” meaning have a jack inserted on their neck, to enter. The manner of entering the Ultraneet may be a parody of the Matrix, where humans had cables inserted in many parts of their bodies. This looks like crazy but who knows what will be in the next century of our civilization.

IV. Internet professions of the future

In the future will be many new Internet professions. “60% of the best jobs in the next ten years haven't been invented yet.” – Thomas Frey. In the past, careers were stable, linear and singular. People chose one path and pursued it over the course of their lives from college to retirement. In our modern age of technology driven exponential change – this model no longer works. Careers are now complex, fragmented, specialized, collaborative and ever evolving. More often than not, our work life will be made up of a portfolio of micro-careers.

Here are careers that will likely come of age in the next 10 years. Some of these jobs exist now, but will come into greater demand soon. Others do not exist yet, but we see strong potential in their emergence. For example:

Personal Digital Curator: A specialist that recommends and maintains your unique suite of apps, hardware, software and information sources for your evolving personality and career;

Personal Life Log Archivist: In the age of the completely archived life, there will be a need for AI experts to organize, catalog and make sense of volumes of personal content and to identify potential uses for one's life log; **Hackschooling Counselor:** This counselor encourages students to hack the real world and experiment with life rather than only pursuing traditional educational paths;

Privacy Consultant: This consultant reveals vulnerabilities in an individual's personal, physical, and online security points;

Skype Staging: Hired career advisors that prepare and help an individual work through remote interviews or video conferencing, including etiquette, appearance and conversational skills;

Meme Agent: Similar to a celebrity or talent agent, a Meme Agent represents and maximizes the value of the personality or intellectual property used in a meme [4].

Conclusion

There will be many new internet professions in the future that will not only develop informatization in all spheres of our lives, but also solve the moral and cultural problems of the information society. In particular, the list of TOP-20 professions of the future, formed by the well-known research company Sparks & Honey, confirms the increased attention to the culture and personality on the Internet.

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