This research presents analysis and inventigation of some symmetric cipher algorithms which have been proposed for the security of SC and 4C mobile generation. The research starts with overview of var and survices offered by SC and 4G methologies. Moreover, the design and architecture of some symmetric cipher algorithms (e.g. AES, NNOW 3C, and ZUC) are also analyzed. In this context, the initialized encryption and security context context in the context, the initialized encryption and security context context in the context, the initialized context in the context in the

## REFERENCES

- [1] M. Amine, L. Maglaras, A. Argyriou, and D. Kosmanos, "Security for 4G and 5G Cellular Networks: A Survey of Existing Authentication and Privacy-preserving Schemes," J. News. Comput. Appl., vol. 101, no. November, pp. 55–82, 2018.
- | M. I. Bah, Nishen, I. Mannoo, A. A. Nish, and S. A. Shamed, "Evolution of Alcohol Wireless Communication Systems may not to 5 Gr. A. Comparation Analysis," ISRS/ESEIT,vol. 4, no. 1, pp. 143, 2018.

  | E. Echilarasan and M.Dinakaran, "A Review on mobile technologies: 3G, 4G and 5G," Second International Conference on Recent Trends and Challenges in Computational Models, 2017. DOI 10.1109/ICRTCCM.2017.90
- [4] G. S. Nitesh and A. Kakkar, "Generations of Mobile Communication," International Journal of Advanced Research in Computer Science and Software Engineering, vol. 6, no. 3, pp. 320–324, 2016.
- [5] S. Atapoor, "Security for 4G and 5G Cellular Networks," Report for the Course Research Seminar in Cryptography (MTAT.07.022), Institute of Computer Science, University of Tartu, 2018.
- [6] NIST. "ADVANCED ENCRYPTION STANDARD (AES)." 2001. http://csrc.nist.gov/publications/fips/fips/197/fips-197.pdf.
- [7] M. Khan and V. Niemi, "AES and SNOW 3G are Feasible Choices for a 5G Phone From Energy Perspective," Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 211. Springer, Cham, 2018.
- [8] J. Lu, O. Dunkelman, N. Keller, and J. Kim, "New Impossible Differential Attacks on AES," In: INDOCRYPT'08. LNCS, vol. 5365, pp. 279-293. Springer (2008).
- [9] H. Mala, M. Dakhilalian, V. Rijmen, and M. Modarres-hashemi, "Improved Impossible Differential Cryptanalysis of 7-Round AES-128," In: INDOCRYPT10. LNCS, vol. 6498, pp. 282-291. Springer (2010). tps://conferences.cihanuniversity.edu.iq/index.php/COCOS/19/user/account possible." Journal of Cryptology, Volume 31, Issue 1, pp. 101-133, January 2018.

Go to Settings to activate Windows

Jasim

Review policy About the author How to cite item Indexing metadata Print version