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Abstract: Nowadays, when we have a strong presence of computers in our everyday lives the protection of electronically processed information

using digital machines becomes very important. It is related to accidental formation of electromagnetic fields which are correlated with processed information. Although many protective measures are taken a phenomenon of electromagnetic leakage information still poses a great threat. Therefore, methods supporting information protection against the so-called electromagnetic infiltration are still being developed. In addition, these methods would support security of data processing and perhaps replace some of the currently used solutions characterized by high costs of implementation, or a small degree of ergonomics. The article presents the results of the researches of Digital Video Interface from possibilities of manipulating the level of electromagnetic protection point of view using different colors of text and background. There was proposed color method and smoothing mode of edges of graphic characters as a solution supporting electromagnetic protection.

Keywords: Digital Video Interface, electromagnetic safety, leakage information, electromagnetic eavesdropping, sensitive emission, Side Channel Attack

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