

The aim of the thesis is to create a library that will provide ease way to creating and experimenting with computing networks. The concept of computing network can be explained as algorithms which can be divided into small simple parts (nodes). From these nodes the computing network can be build. Examples of such computational units are cryptographic algorithms. Most important computing network are these where exist inverse operations. Especially lifting-based transformations are important. The main emphasis of this work is on the simplicity of creating new nodes follows by simple nodes connecting. Versatility is another important feature in working with this library. This library will be used to easily implement and experiment with the various computing networks.