



Final project proposal

Type	Undergraduate
Title	<i>Gaussian Channel</i>
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Department / Group	
Department of Theoretical Foundation of Informatics	
Topic(s)	
Information Theory	
Project can start from	01.04.2013
Project duration	4 months
Short description	
<p>The most important continuous alphabet channel is the Gaussian channel. This is a time discrete channel with output Y_i at time i, where Y_i is the sum of the input X_i and the noise Z_i. The noise Z_i is drawn i.i.d. from a Gaussian distribution with variance N.</p> <p>The student will have to study and research this problem, write a report about this research and make a program for simulation of this type of channel. It is going to be an individual activity.</p> <p>No need of any kind of specialized lab equipment.</p>	
Results and assessment	
The student needs to write a report, make a program for simulation of Gaussian channel and give a presentation of a project.	
Other (additional) information	