



Final project proposal

Type	Master/Undergraduate	
Title	Localization in Networks of Mobile Nodes	
Supervisor	Lasko Basnarkov	
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Department / Group		
Institute of Intelligent Systems		
Topic(s)		
Sensor Networks		
Project can start from	01.04.2014	
Project duration	4 months	
Short description		
<p>Determination of locations of nodes in a network is important issue in various sensor applications. Localization of mobile nodes is more challenging problem than its static counterpart and has be less studied. Within this project will be studied some existing algorithms and the aim is their improvement or developing new ones. The study will be mixture of theoretical work and computer simulations of various simple scenarios – mainly one-dimensional cases.</p>		
Results and assessment		
<p>The student is expected to improve some existing model or develop new one for localization of nodes moving on a line. The algorithm should use mutual cooperation of the nodes for improvement of the location estimate. Improvement will be achieved by decreasing the location error as compared with the existing algorithms. A report that summarizes the description of the algorithm(s) and its(their) performance is conclusion of the student's work within this project.</p>		
Other (additional) information		
<p>This work is part of the Dynamical Sensor Networks Project funded by the Faculty of Computer Science and Engineering. The student will join the group of researchers working on it.</p>		