

<b>Topic</b>	<b>Interdisciplinary complex systems</b>
<b>Topic is suitable for</b>	<ul style="list-style-type: none"> <li>• practical works of bachelor students</li> <li>• graduation thesis of bachelor students</li> <li>• practical works of master students</li> <li>• graduation thesis of master students</li> </ul>
<b>Contact</b>	Jaan Kalda ( <a href="mailto:kalda@ioc.ee">kalda@ioc.ee</a> )
<b>Annotation</b>	Complex systems are systems which consist of many interacting and relatively simple components for which interactions lead to quantitatively novel properties; typical features are self-organized criticality and power laws. Few examples of complex systems: sand grains in a heap of sand, biological evolution of species, financial markets, society etc. There are two basic methods for studying complex systems: theoretical modelling, and empirical analysis – finding statistical measures for describing the particular type of systems. The topics of study range from geophysics to economy, literature, and fine arts.
<b>Expectation for candidate</b>	Basic skills in mathematics, statistics, and (C/C++ or Python).