

The thesis focusses on central nodes' dynamics in cyberspace, representing its key elements. Such approach derives from the theory of networks developed by Albert-László Barabási and it is conceptualised along with cyberspace in security studies and the role of a state in cyberspace. Main question, which is how to improve cybersecurity strategies, is answered by well-structured package of possible positions of a state towards central nodes. It assesses the level of involvement in cyberspace, boundaries of intrusion into central nodes and acceptable tools usable against those which are not directly accessible.