

## **Recommendations to Authors on the Content of Scientific and Technical Papers**

A scientific paper shall demonstrate the author's qualification and his/her contribution to a solution of a scientific and technical problem.

Papers which are considered when awarding academic degrees and ranks, can be divided into the following categories: applications for inventions and utility models; patents; scientific and technical papers, advertising articles, and books.

A common misstep of emerging authors is that they publish a text of an application as a scientific or scientific and technical paper.

The basic requirement to an application for invention or utility model is a novelty of technical solution, herewith an author shall not provide calculations or explanation of physical processes underlying the results stated. All it takes is to confirm the fact that the stated results are achieved when the conditions specified in the application are met. A patent granted on an application documents only the applicant's priority but not scientific-technical qualification.

Unlike patents a scientific paper shall demonstrate the author's qualification in science, skills in analysis and research of a scientific problem, making conclusions and formulating a scientific result of the research performed. A scientific paper shall not describe and advertise achievements of other authors having no relevance to the published paper.

A scientific and technical paper shall describe in details a procedure or technology of development of a scheme, design or software of a product; calculation methods of parameters of a developed product with explanation of basic physical processes underlying the operation principle of the product. A paper shall demonstrate the author's qualification in engineering, skills in calculations and proper formalization of calculation results. It shall contain description of the development process or analysis and substantiation of the selected technical solutions rather than technical description of the product developed. If the product has been already developed by someone, its description can't characterize the author's qualification.

An advertising scientific and technical article can contain technical parameters of products which were developed with participation of the author of the published article. Description of technical characteristics of promoted products shall reflect hair-splitting technicalities related to peculiarities of use of the products as well as their advantages over known products of the same purpose.