# **Preface**

The International Scientific and Technical Conference "Construction and Architecture: Theory and Practice of Industry Development" (CATPID-2018) is held from 08 to 12 October 2018 on the basis of FSBEI HE «Kabardino-Balkarian State University named after H. M. Berbekov». For the first time CATPID 2018 will be held in the separate conference format.

The work of the conference is aimed at providing an opportunity for scientists, graduate students and representatives of the construction industry to generalise the recent achievements results in the field of industrial and civil construction (design, organisation of all types of work, construction materials, etc.), discussing promising directions for the construction industry development and establishing useful partner relationships for future interaction.

The conference is held on numerous topics:

- Construction mechanics and theory of structures
- Computational methods and information technologies in construction
- Design of unique buildings and structures
- Building structures: design, monitoring, reliability and durability
- Modern technologies, construction machinery and organisation of construction
- New materials, synthesis and technologies for their production
- Construction of roads, bridges, tunnels and airfields. Organisation and traffic safety
- Geodesy, cartography and photogrammetry
- Heating, gas supply, ventilation, air conditioning and lighting
- Water supply and sanitation
- Architecture, design, reconstruction and restoration of architectural heritage
- Urban planning, construction and economy
- Industrial ecology, prevention of natural disasters and mitigation of their consequences
- Bases, foundations and underground structures. Engineering and hydro-meteorological surveys for construction
- Economy in construction

230 participants from 29 regions of the Russian Federation and 29 participants from 8 countries of the near and far abroad (Abkhazia, Austria, Armenia, the Republic of Belarus, Vietnam, China, Poland, Ukraine) were registered for the conference in 2018.

The important problems of construction and architecture (from ideas and projects to immediate implementation) are raised and the ways of their solution and optimisation are suggested in the reports presented in frameworks of these topics. Many reports were prepared as a benefit of the state support of science in forms of grants, federal target programs, resolutions of the Government of the Russian Federation and other programs.

Particular attention is paid to young researchers, whose works are evaluated separately. The general impression associated with the organisation and holding of the conference is very positive.

Annual holding of such conferences is planned to be organised on the main topics of the construction industry.

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