



„COMPETITION FOR FINANCIAL SUPPORT FOR RESEARCH PROJECTS – 2017”

Administrative description of the project

<i>Competition:</i>
Competition for financial support of research projects – 2017
<i>Main research/thematic area, of the project:</i>
Technical sciences
Additional research/thematic area – for interdisciplinary projects:
<i>Project title:</i>
Research and Modelling of New Robots by Using Innovative Technologies and Materials
<i>Type of the planned research (fundamental or applied):</i>
applied
<i>Applying organization:</i>
Institute of Robotics “Saint Apostle and Gospeller Mathew” of Bulgarian Academy of Sciences
<i>Partner organizations:</i>
Technical University - Sofia
<i>Coordinator of the research team (academic position and degree, name):</i>
Assoc. Prof. Ph.D. Eng. Ivan Nikolov Chavdarov

Abstract of the project:

The purpose of this project is to develop new, non-traditional robots through theoretical and experimental studies with the new 3D technology, new materials and element base. The project envisages the creation, study and analysis of structures of robots. Will be performed synthesis, mathematical modeling, simulation, design, development of appropriate techniques and modeling of new, highly maneuverable and flexible handling systems, movement systems and end effectors, by using new types of materials and 3D printing technology. It will be aimed high qualification and education of the participants and also a realization with economical effect.

Members of the research team

<i>Organizations/team members¹</i>
<i>Applying organization:</i>
Institute of Robotics “Saint Apostle and Gospeller Mathew” of Bulgarian Academy of Sciences
<i>Coordinator of the research team</i>
Assoc. Prof. Ivan Nikolov Chavdarov
<i>Team members:</i>
Prof. Ph.D. Eng. Veselin Iliev Pavlov Prof. Ph.D. Eng. Anna Kostadinova Lekova Assist.Prof. Ph.D. Aleksandar Ivanov Krastev Eng. Pancho Nikolaev Dachkinov Eng. Georgi Ivanov Elenchev
<i>Partner organization:</i>
Technical University - Sofia
<i>Team members:</i>
Assoc. Prof. Ph. D. Eng. Rumen Ivanov Trifonov Assoc. Prof. Ph. D. Eng. Dilyana Valkova Budakova Assist. Prof. Eng. Galia Veselinova Pavlova

¹ Please, include the academic position and degree of each team member.