



CALL FOR PAPERS - SPECIAL SESSION
“Advances in Machine Learning Control”
For **CODIT’22**
May 17-20, 2022 ▪ Istanbul, Turkey

Session Co-Chairs:

Prof. Askhat Diveev, Federal Research Center “Computer Science and Control” of the Russian Academy of Sciences, Russia (email :aidiveev@mail.ru)

Dr. Elizaveta Shmalko, Federal Research Center “Computer Science and Control” of the Russian Academy of Sciences, Russia (email :e.shmalko@gmail.com)

Dr. Elena Sofronova, Federal Research Center “Computer Science and Control” of the Russian Academy of Sciences, Russia (email :sofronova_ea@mail.ru)

Session description

This special session deals with the control problems of complex nonlinear systems such as optimal control, feedback control synthesis, identification, navigation and other related issues. The primary focus are various machine learning techniques for the computational solution of the control problems which include evolutionary algorithms, artificial neural networks, symbolic regression methods and so on with the application in various autonomous systems design.

The topics of interest include, but are not limited to:

- machine learning
- optimal and near optimal control
- control system synthesis
- identification
- evolutionary algorithms
- neural networks
- symbolic regression
- robotics

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 07, 2022:**

<http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CODIT 2022 link** “Submit a Contribution to CoDIT 2022” and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 07, 2022: deadline for paper submission

March 4, 2022: notification of acceptance/reject

March 30, 2022: deadline for final paper and registration