



**Zavalishin's
Readings | 2020**

Certificate of Participation

Peter Trefilov, Mark Mamchenko, Maria Romanova and Igor Ischuk

Paper Title:

Improving Methods of Objects Detection Using Infrared Sensors
Aboard the UAV

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Vladislav Shishlakov, Elizaveta Vataeva, Nataliia Reshetnikova,
Dmitriy Shishlakov and Oksana Solenaya

Paper Title:

Synthesis of Nonlinear Impulse Systems

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Sergej Solyonyj, Oksana Solenaya, Aleksandr Rysin, Vladimir Kuzmenko
and Evgeny Kvas

Paper Title:

Robot for Inspection and Maintenance of Overhead Power Lines

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Valeriia Izhboldina, Igor Lebedev and Aleksandra Shabanova

Paper Title:

Approach to UAV Swarm Control and Collision-Free Reconfiguration

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Konstantin Krestovnikov, Ekaterina Cherskikh and Eldar Zimuldinov

Paper Title:

Combined Capacitive Pressure and Proximity Sensor
for Using in Robotic Systems

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Dmitriy Levonevskiy, Evgenii Karasev and Egor Aksamentov

Paper Title:

Architecture and Algorithms of Geospatial Service
for Navigation of Robotic Complexes

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Dmitry Ershov and Irina Lukjanenko

Paper Title:

Vibration Amplitude and Frequency Parameters
of Technological Equipment Drives

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Sergei Savin, Oleg Balakhnov and Alexander Maloletov

Paper Title:

Linearization-Based Forward Kinematics Algorithm
for Tensegrity Structures with Compressible Struts

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Denis Milyakov, Vladimir Verba, Vladimir Merkulov
and Andrew Plyashechnik

Paper Title:

Active Phased Antenna Arrays for Long-Range Mobile Radars Based
on Quadcopters

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



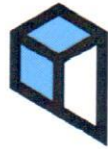
SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Eugene Larkin, Tatiana Akimenko, Alexey Bogomolov
and Konstantin Krestovnikov

Paper Title:

Mathematical Model for Evaluating Fault Tolerance
of OnBoard Equipment of Mobile Robot

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Elvira Chebotareva, Kuo-Hsien Hsia, Konstantin Yakovlev
and Evgeni Magid

Paper Title:

Laser Rangefinder and Monocular Camera Data Fusion
for Human-Following Algorithm by PMB-2 Mobile Robot
in Simulated Gazebo Environment

have participated in the

15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Nikolay Teslya, Alexander Smirnov, Artem Ionov and Alexander Kudrov

Paper Title:

Multi-Robot Coalition Formation for Precision Agriculture Scenario
Based on Gazebo Simulator

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Dmitriy Blinov, Anton Saveliev and Aleksandra Shabanova

Paper Title:

Deep Q-Learning Algorithm for Solving Inverse Kinematics
of Four-Link Manipulator

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Andrey Karlov, Ekaterina Saveleva, Andrey Yatsun and Aleksey Postolny

Paper Title:

Modeling of the Exoskeletal Human-Machine System Movement Lifting
a Load

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Sergey Kharchenko, Roman Meshcheryakov, Yaroslav Turovsky
and Daniyar Volf

Paper Title:

Implementation of Robot-Human Control Bio-Interface
when Highlighting Visual Evoked Potentials Based
on Multivariate Synchronization Index

have participated in the

15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Denis Ivanko, Dmitry Ryumin and Alexey Karpov

Paper Title:

An Experimental Analysis of Different Approaches to Audio-Visual
Speech Recognition and Lip-Reading

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Vinh Nguyen, Quyen Vu and Andrey Ronzhin

Paper Title:

Mathematical Modeling of Stable Position of Manipulator Mounted
on Unmanned Aerial Vehicle

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Sergey Jatsun, Boris Lushnikov, Oksana Emelyanova
and Andres Santiago Martinez Leon

Paper Title:

Synthesis of SimMechanics Model of Quadcopter Using SolidWorks
CAD Translator Function

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Ildar Nasibullayev, Oleg Darintsev, Elvira Nasibullaeva
and Dinar Bogdanov

Paper Title:

Piezoelectric Micropumps for Microrobotics: Operating Modes
Simulating and Analysis
of the Main Parameters of the Fluid Flow Generation
have participated in the

15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Vladimir Bocharov, Alexander Danilov, Victor Burkovsky,
Konstantin Gusev and Pavel Gusev

Paper Title:

Analysis of Resource Availability of Production Enterprise Based
on Fuzzy Neural Network

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Petr Neduchal and Miloš Železný

Paper Title:

Environment Classification Approach for Mobile Robots

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Youshaa Murhij and Vladimir Serebrenny

Paper Title:

Hand Gestures Recognition Model for Augmented Reality Robotic Applications

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Egor Aksamentov, Konstantin Zakharov, Denis Tolopilo
and Elizaveta Usina

Paper Title:

Approach to Robotic Mobile Platform Path Planning Upon Analysis
of Aerial Imaging Data

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Igor Lebedev, Anton Ianin, Elizaveta Usina and Viktor Shulyak

Paper Title:

Engineering Solution of a Base Station for UAV Maintenance
Automation

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Yuriy Obzherin, Mikhail Nikitin and Stanislav Sidorov

Paper Title:

Hidden Markov Model Based on Signals from Blocks
of Semi-Markov System's Elements and Its Application
for Dynamics Analysis Energy Systems

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Maxim Kolomeets, Ksenia Zhernova and Andrey Chechulin

Paper Title:

Unmanned Transport Environment Threats

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Ramil Safin, Roman Lavrenov and Edgar Alonso Martnez-Garca

Paper Title:

Evaluation of Visual SLAM Methods in USAR Applications Using
ROS/Gazebo Simulation

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Eldar Mingachev, Roman Lavrenov, Evgeni Magid and Mikhail Svinin

Paper Title:

Comparative Analysis of Monocular SLAM Algorithms Using TUM
and EuRoC Benchmarks

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Alexander Denisov and Oleg Sivchenko

Paper Title:

**Modelling Wireless Information Exchange between Sensors
and Robotic Devices**

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Sergey Jatsun, Andrei Malchikov, Andrey Yatsun and Ekaterina Saveleva

Paper Title:

Mathematical Modeling of Load Lifting Process with the Industrial Exoskeleton Usage

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference
Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Andrey Trifonov, Sergey Filist, Sergey Degtyarev, Vadim Serebrovsky
and Olga Shatalova

Paper Title:

Human-Machine Interface of Rehabilitation Exoskeletons
with Redundant Electromyographic Channels

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Mark Mamchenko, Pavel Ananyev, Alexander Kontsevoy,
Anna Plotnikova and Yuri Gromov

Paper Title:

The Concept of Robotics Complex for Transporting Special Equipment
to Emergency Zones and Evacuating Wounded People

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Rinat Galin and Roman Meshcheryakov

Paper Title:

Collaborative Robots: Development of Robotic Perception System,
Safety Issues and Integration of AI to Imitate Human Behavior

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Aleksandr Nikitin, Vyacheslav Soldatkin and Vladimir Soldatkin

Paper Title:

Technology for Constructing Multifunctional Controlling System
of Motion's Parameters of Unmanned SingleRotor Helicopter

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Elena Efremova and Vladimir Soldatkin

Paper Title:

Integrated Sensor System for Controlling Altitude Velocity Parameters
of Unmanned Aircraft Plane Based on the Vortex Method

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Tagir Muslimov and Rustem Munasypov

Paper Title:

Three-Dimensional Consensus-Based Control
of Autonomous UAV Swarm Formations

have participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Mehmet Guzey

Paper Title:

Neuro Sliding Mode Control for Exoskeletons with 7 DoF

has participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Airat Migranov

Paper Title:

Cloud-Based Task Distribution System Infrastructure for Group of Mobile Robots

has participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Mikhail Khachumov

Paper Title:

Tactical Level of Intelligent Geometric Control System for Unmanned
Aerial Vehicles

has participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Dinar Bogdanov

Paper Title:

Continuum Manipulator Motion Model Taking into Account Specifics of its Design

has participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer



**Zavalishin's
Readings | 2020**

Certificate of Participation

Nikolay Lopatkin

Paper Title:

Quarter-Wave Symmetric Space Vector PWM with Low Values of Frequency Modulation Index in Control of Three-Phase Multilevel Voltage Source Inverter

has participated in the
15th International Conference on Electromechanics and Robotics
"Zavalishin's Readings" (ER(ZR)-2020) organized together with
14th International Scientific and Technical Conference "Vibration-2020.
Vibration technologies, mechatronics and controlled machines" and
5th International Scientific and Technical Conference
"Electric drive, electrical technology
and electrical equipment of industrial enterprises"
April 15-18, 2020

General Chair of Conference

Prof. Yulia Antokhina

E-mail: zav-read@guap.ru

Web: <http://suai.edu.ru/conference/zav-read/>



SUAI



USPTU



Springer