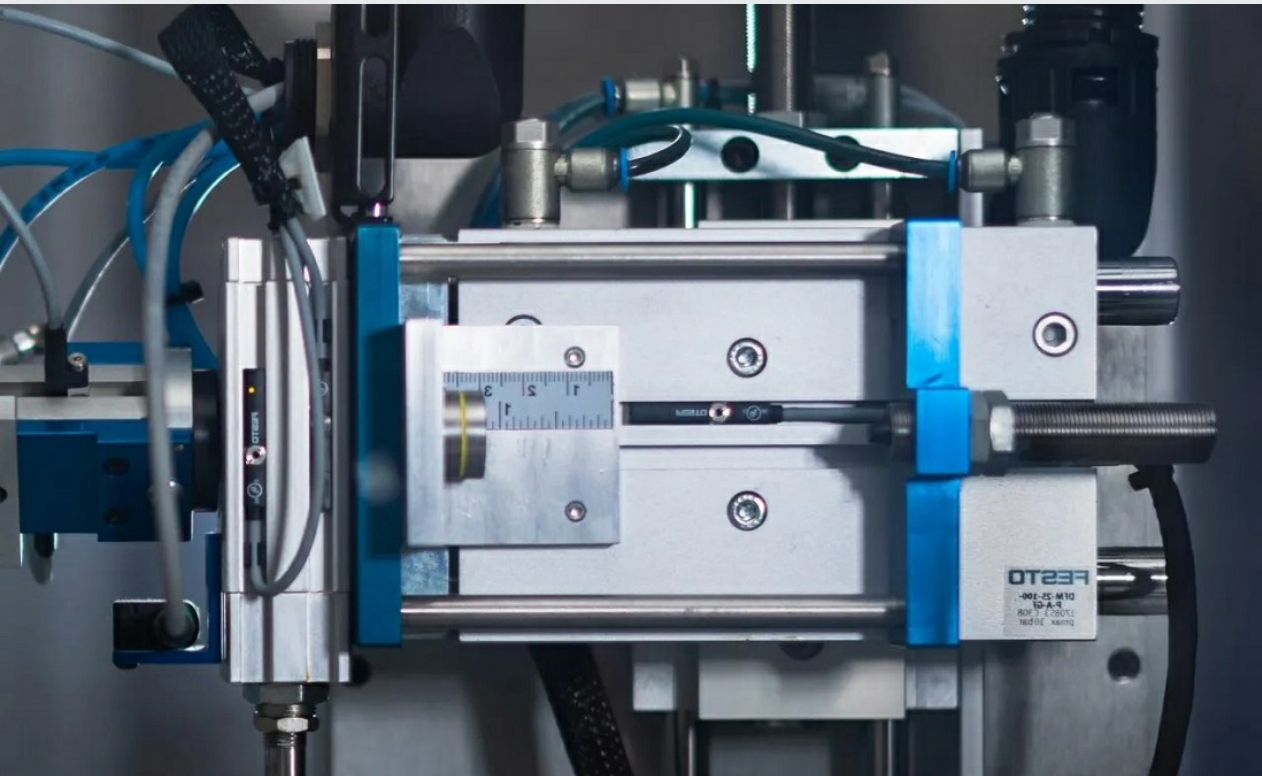


Mechanical Engineering

# Journal of Mechanical Engineering, Automation and Control Systems



**Editor in Chief**

Algazy Zhauyt                      Almaty University of Power Engineering and Telecommunications, (Kazakhstan)                      ali84jauit@mail.ru

**Assistant Editor**

Musayev Janat Sultanbekovich                      Kazakh Academy of Transport and Communications M. Tynyshpaev, (Kazakhstan)                      mussayev75@yandex.kz

**Editorial Board**

Murat Zh. Adambayev                      Almaty University of Power Engineering and Telecommunications, (Kazakhstan)                      adambaev\_m@mail.ru

Saule E. Bekzhanova                      Kazakh Academy of Transport and Communications named after M. Tynyshpayev, (Kazakhstan)                      s.bekzhanova@bk.ru

Toty Buzauova                      Karaganda State Technical University, (Kazakhstan)                      toty\_77@mail.ru

Seckin Filiz                      Tekirdag Namik Kemal University, (Turkey)                      sfiliz@nku.edu.tr

Piotr Gierlak                      Rzeszow University of Technology, (Poland)                      pgierlak@prz.edu.pl

Mikhael Ya. Kuashnin                      Kazakh Academy of Transport and Communications named after M. Tynyshpayev, (Kazakhstan)                      kvashnin\_mj55@mail.ru

Narzankul M. Makhmetova                      Kazakh Academy of Transport and Communications named after M. Tynyshpayev, (Kazakhstan)                      makhmetova\_n1958@mail.ru

G. Eduardo Sandoval-Romero                      The National Autonomous University of Mexico, (Mexico)                      eduardo.sandoval@ccadet.unam.mx

Vladimir G. Solonenko                      Kazakh Academy of Transport and Communications named after M. Tynyshpayev, (Kazakhstan)                      v.solonenko@mail.ru

Yerbol S. Temirbekov                      Kazakh National University named after Al-Farabi, (Kazakhstan)                      temirbekove@mail.ru

Kazhybek T. Tergemes                      Almaty University of Power Engineering and Telecommunications, (Kazakhstan)                      tergemes@mail.ru

Mingfeng Wang                      Brunel University London, (United Kingdom)                      mingfeng.danny.wang@gmail.com

# JMEACS Journal of Mechanical Engineering, Automation and Control Systems

## Aims and Scope

JMEACS publishes a wide range of original research and review articles. The journal Editorial Board welcomes manuscripts in both fundamental and applied research areas, and encourages submissions which contribute novel and innovative insights to the field of mechanical engineering. All submitted articles considered suitable for JMEACS are subjected to rigorous peer review to ensure the highest levels of quality. Original papers which provide an important contribution to the development of mechanical engineering and report on significant developments in the field are encouraged. The review process is carried out as quickly as possible to minimize any delays in the online publication of articles. JMEACS aims to advance the understanding of mechanical engineering by providing a platform for the publication of unique contributions in the field of mechanical engineering across a variety of topics, including.

The list of principal topics:

- Mechanical engineering
- Materials science
- Applied mechanics
- Controls and dynamics
- Machine design
- Design theory and methodology
- Dynamic traffic signal control
- Transportation and logistics
- Railway engineering
- Bridge engineering
- Tunnel engineering
- Urban rail construction
- Engineering machinery
- Mechatronics
- Rotor dynamics
- Industrial robotics
- Intelligent control systems
- Haptics and human-machine-interfaces
- Robotics, mechatronics and micro-machines
- Mechanisms, mechanical transmissions and machines
- Kinematics, dynamics, and control of mechanical systems
- Manufacturing engineering
- Intelligent transportation systems and traffic control
- Automation, CNC machines and robotics
- Dynamics of machines, vehicles and flying structures
- Intelligent systems
- Computational mechanics
- Electronics, information and control systems
- Robotics and robot applications
- Robotic and control systems
- Mechanics of materials
- Intelligent control systems
- Mechatronics and robotics

**All published papers are peer reviewed and crosschecked by plagiarism detection tools.**

More information is available online <https://www.extrica.com/journal/jmeacs>

## The journal material is referred:

**EBSCO:** <https://www.ebsco.com>

**Directory of Open Access Journals (DOAJ):** <https://doaj.org>

**Scilit:** <https://www.scilit.net>

**Dimensions:** <https://www.dimensions.ai>

**Google Scholar:** <https://scholar.google.com>

**JGate:** <https://jgateplus.com>

**CORE:** <https://core.ac.uk>

**CNKI Scholar:** <http://eng.scholar.cnki.net>

**cnpLINKer (CNPIEC):** <http://cnplinker.cnpeak.com>

**WanFang Data:** <https://www.wanfangdata.com.cn>

**TDNet:** <https://www.tdnet.io>

**CiteFactor:** <https://www.citefactor.org>

**WorldCat Discovery Services:** <https://www.oclc.org/en/worldcat-discovery.html>

**MyScienceWork:** <https://www.mysciencework.com>

**Crossref:** <https://search.crossref.org>

Content is archived in **Martynas Mazvydas National Library of Lithuania**

**Internet:** <https://www.extrica.com>

**E-mail:** [publish@extrica.com](mailto:publish@extrica.com)

**Publisher:** Extrica

**JMIE** Journal of  
**ACS** Mechanical Engineering,  
Automation and  
Control Systems

---

DECEMBER 2023. VOLUME 4, ISSUE 2, PAGES (38-51), ISSN PRINT 2669-2600, ISSN ONLINE 2669-1361

## Contents

<b>RIGID-FLEXIBLE COUPLING MODELING OF THE DUAL-ROTOR SYSTEM FOR AERO-ENGINE</b>	<b>38</b>
PINGPING MA, YUEHUI DONG, HANGQI ZHAO, YANG LI, MUGE LIU	



## SHORT DESCRIPTION ABOUT THIS CATEGORY

Novel and innovative insights to the field of mechanical engineering. Advance the understanding of mechanical engineering by providing a platform for the publication of unique contributions in the field of mechanical engineering across a variety of topics. Novel and innovative insights to the field of mechanical engineering. Advance the understanding of mechanical engineering by providing a platform for the publication of unique contributions in the field of mechanical engineering across a variety of topics.

