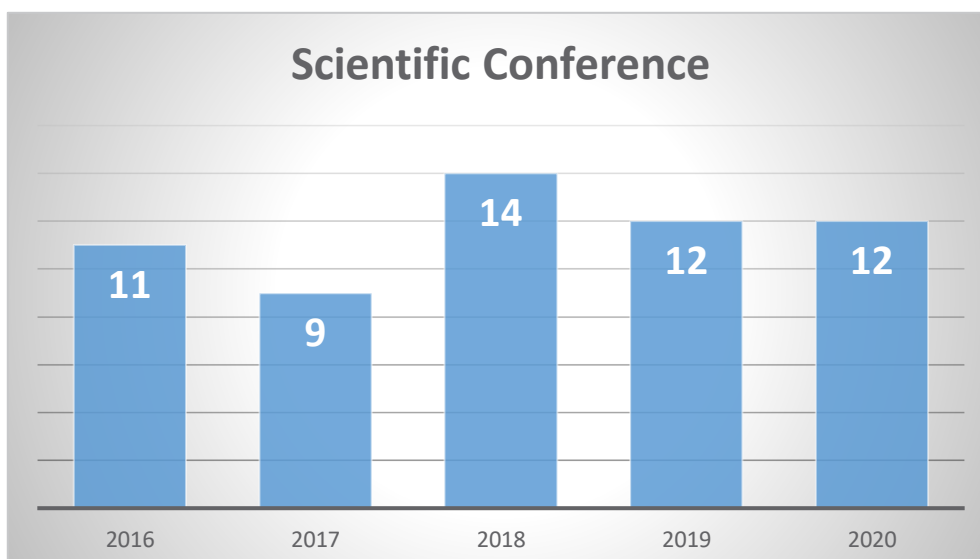


SCIENTIFIC CONFERENCES

EVOLUTION OF SCIENTIFIC CONFERENCES 2016 - 2020





Building Services and Environmental Comfort (ICCA 2020)

April 2 - 3, 2020, Timișoara, Romania

Organizers: AIIR - Romanian Association of Building Services;
Politehnica University Timișoara - Civil Engineering and Installations Department;
in association with REHVA, Danube ASHRAE Chapter, Research Center of Installations,
Electrical Installations and Automation Society Romania

<http://www.aiir-timisoara.ro>

Knowing the comfort needs, being aware of the imperative of the protection of the environment and finding the current energy “deficiencies”, led to the organization of the 29-th Conference “Building Services and Environmental Comfort” with theme “The comfort provided by renewable energy sources”. Specialists of all classes, students, performers, designers, researchers, and teachers have published in this volume.

The key issues of renewable energy supply and proposals for solving them can be found in the 28 papers of authors from our country and from abroad, published in the conference volume.

Topics: ambient comfort, environmental protection, HVAC systems, energy efficiency, renewable energy, technical and economic parameters of the installations, the influence of the improper functioning of the facilities on human health, issues in facilities management and marketing.

The conference was attended by 46 authors who addressed topics such as renewable energy sources (solar energy, wind energy, soil, and environmental energy), air and water quality, technical sustainability, but also the influence / importance of human action in contact with environment. Researchers’ concerns closely related to future work/activity, have led to the development of valuable works with current topics and personal contributions to solve, gravitating in the areas of primary factors of life: air, water, heat, light, which fits perfectly with the words “Homo sanus in domo pulchra.”

Published papers by: The volume consisting of the conference’s papers was published by MATRIX Publishing (ISSN: 1842-9491).



International Conference on Applied Sciences ICAS2020

May 20 - 22, 2020, Hunedoara, Romania (on-line)

Organizers: Politehnica University Timișoara and Unieiversity of Banja Luka
in cooperation with: Ministry for Scientific and Technological Development, Higher Education and Information Society of the Republika Srpska, Academy of Romanian Scientists, Academy of Sciences and Arts of the Republika Srpska, Academy of Technical Sciences of Romania - Timisoara Branch, General Association of Romanian Engineers - Hunedoara Branch and Association Universitaria Hunedoara

<http://icas.science/>

Event dedicated to the Centenary of the University Politehnica Timișoara and the Semi-Centenary of the Engineering Faculty of Hunedoara. The conference has been focused on several fields of application, operation and influence of the applied sciences and technologies on industry.

Topics of the conference covers a comprehensive spectrum of issues from:

- 1. Fundamental Sciences:** Pure and Applied Mathematics, Physics, Chemistry, Numerical Approximation and Analysis, Computational Methods, Applied Statistics and others...
- 2. Computers Engineering:** Modeling and Simulation, Software Engineering, Data Bases, and others...
- 3. Electrical Engineering:** Circuits and Systems, Signal Processing, Electric Motors, Control Engineering, and others...
- 4. Mechanical Engineering:** Mechanics, Mechatronics, Robotic Systems Engineering, Production Engineering, Constructions, Automotive and Traffic Engineering, Safety Engineering, Reliability, and others...
- 5. Materials Engineering:** Metallic Materials, Composite Materials, Metal Alloys, Metallurgy, Heat Transfer, and others...

Publication of papers: The volume “Proceedings of ICAS2020” has been published in *Journal of Physics: Conference Series* vol. 1781 (2021).

SACI 2020

IEEE 14th International Symposium on Applied Computational Intelligence and Informatics

IEEE 14th International Symposium on Applied Computational Intelligence and Informatics (SACI 2020)

May 21 – 23, 2020, Timișoara, Romania

Organizers: Óbuda University, Budapest, Hungary, Politehnica University Timișoara, IEEE Chapter of Systems, Many, and Cybernetics Society, Romania

<http://conf.uni-obuda.hu/saci2020/>

SACI 2020 has featured several kinds of presentations, including invited talks, contributed papers and posters. The outcome of SACI 2020 is a better understanding of some leading research areas, as already Computational Intelligence and Informatics have demonstrated.

SACI 2020 has welcomed papers on the following topics:

- Computational Intelligence
- Intelligent Mechatronics
- Systems Engineering
- Intelligent Manufacturing Systems
- Intelligent Control
- Intelligent Robotics
- Informatics.

Published papers by:

IEEE Xplore Digital Library, please visit

<http://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=SACI%202020>



ErgoWork 2020 International Conference on Ergonomics and Workplace Management

June 18 – 20, 2020, Timișoara, Romania – On-line event

Organizers: Romanian Society on Ergonomics and Workplace Management (ErgoWork), Politehnica University of Timisoara, Romania, Technical University of Cluj-Napoca, Romania, Romanian Association of Workplace and Facility Management, Federation of European Ergonomics Societies, Hungary Hungarian Ergonomics Society, Serbia Ergonomics Society of Serbia, Croatian Ergonomics Society

<http://www.mpt.upt.ro/cercetare/conferinte/ergowork.html>

ErgoWork 2020 international scientific event was organized for creating a large national and international community of knowledge, practice and interests in the field of ergonomics and workplace management. The published papers were related to a large variety of topics as: industrial ergonomics, product and process ergonomics, workplace aesthetics and ergonomics (workplace design and modern architecture perspectives), biomechanics and modelling in ergonomics, occupational medicine, application of ergonomics, occupational health and safety management, sustainable workplaces, education and human resources management. The conference was supported by the Ergonomics and Human Factors Regional Educational CEEPUS Network (CIII-HU-1506-01-2021), <https://sites.google.com/view/ceepusergohf/home>

Publication of papers in 2 emergent ISI Thomson/Clarivate Analytics journal:

- 32 articles were published in ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS, MECHANICS AND ENGINEERING journal, special issue, Anca DRAGHICI (Guest Editor), 64(1-51), 2021, <https://atna-mam.utcluj.ro/index.php/Acta/issue/view/52>
- 9 articles were published in HUMAN SYSTEMS MANAGEMENT journal, special issue “Changes and challenges of human systems management during and after the pandemic”, Anca DRAGHICI (Guest Editor), 39(4), pp. 469-472, 2020, <https://content.iospress.com/articles/human-systems-management/hsm209001?resultNumber=0&totalResults=12&start=0&q=Draghici+Anca&resultsPageSize=10&rows=10>

This research output has an Altmetric Attention Score of 33. This is our high-level measure of the quality and quantity of online attention that it has received. This Attention Score, as well as the ranking and number of research outputs shown below, was calculated when the research output was last mentioned on 09-12-2020.

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Aqua Circular 2020 - On-line Conference

October 7 - 8, 2020, on-line

Organizers: Aquademica Foundation, Aquatim SA, Aquaserv SA, Politehnica University of Timișoara, "Gheorghe Asachi" Technical University of Iași, Fraunhofer Institute for Interfacial Engineering & Biotechnology, Business Development Group, TRITECC, Zalmo Expert Consult, EIT Climate-KIC, NextGen, "Volatile" Project.

<https://aquademica.ro/on-line-conference-circular-water-2020/>

The conference has been focused on new innovative technologies, regional policies, barriers, new business models to follow in next years.

Topics of the conference covers a comprehensive spectrum of issues from:

1. Circular Economy in Sustainable Water Management
2. Public Services Management in the Circular economy
3. Environmental protection & Circular economy
4. Moving Water Industry towards to Circular economy
5. Circular economy & Water Security Nexus

Publication of papers:

Aquademica publication (on-line version)



8th International Conference on Advanced Materials and Structures - AMS 2020

October 7 - 9, 2020, Timișoara, Romania

Organizers: University Politehnica Timișoara ("Department of Materials Engineering and Manufacturing" and "Department of Mechanics and Strength of Materials") in collaboration with the Politehnica Foundation

www.ams.upt.ro

The 8th International Conference on Advanced Materials and Structures - AMS'20 was organized by the University Politehnica Timișoara ("Department of Materials Engineering and Manufacturing" and "Department of Mechanics and Strength of Materials") with the support of the Politehnica Foundation. The AMS'20 conference was held between October 7-9, 2020 in Timișoara, Romania and it is the eighth of the scientific event. The AMS'20 conference celebrated the 100th anniversary of University Politehnica Timișoara foundation.

The conference included plenary sessions, oral and poster presentations, and social events.

The conference topics included:

- Advanced materials - amorphous, nano-structured materials, composites, cellular materials, biomaterials etc.
- Surface engineering
- Modern fabrication, additive manufacturing, joints and recycling technologies
- Materials damage under time-dependent-actions (fatigue, creep, impact, corrosion)
- Computational techniques for advanced engineering materials and structures

Publication of papers:

Proceeding of AMS'20 have been published in the Journal Materials Today: Proceedings (<https://www.journals.elsevier.com/materials-today-proceedings>). Materials Today: Proceedings (ISSN: 2214-7853) provides the materials science community with a fast and flexible route to the publication of research presented at national and international scientific conferences in the field of materials science, technology and engineering. Accepted proceedings are published on ScienceDirect.



The X International Conference "Industrial Engineering and Environmental Protection"

October 8 – 9, 2020, Zrenjanin, SERBIA

Organizers: University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, SERBIA, in cooperation with partners: University Politehnica Timisoara, Faculty of Engineering, Hunedoara, ROMANIA, University "St. Kliment Ohridski", Technical Faculty, Bitola, MACEDONIA, "Aurel Vlaicu" University of Arad, Faculty of Engineering, Arad, ROMANIA, University of East Sarajevo, Faculty of Mechanical Engineering East Sarajevo, BOSNIA & HERZEGOVINA and University of Giresun, Faculty of Engineering, Giresun, TURKEY

<http://www.tfzr.uns.ac.rs/iizs/>

Industrial Engineering

- Mechanical Engineering
- Energetics And Process Technique
- Designing And Maintenance
- Oil And Gas Engineering

Environmental Engineering

- Health And Environmental Protection
- Environmental Management
- Occupational Safety

Publication of papers:

- Proceedings of INTERNATIONAL CONFERENCE INDUSTRIAL ENGINEERING AND ENVIRONMENTAL PROTECTION (9 ; 2019 ; Zrenjanin), ISBN 978-86-7672-324-9, published by University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, SERBIA (<http://www.tfzr.uns.ac.rs/iizs/files/IIZS%202019%20Proceedings.pdf>)

- Selected papers in ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, ISSN: 1584-2665, ISSN-L: 2601-2332, ISSN-L: 1584-2665, published by University Politehnica Timisoara, Faculty of Engineering, Hunedoara, ROMANIA, <http://annals.fih.upt.ro/>

- Selected papers in ACTA TECHNICA CORVINIENSIS – Bulletin of Engineering, e-ISSN: 2067-3809, published by University Politehnica Timisoara, Faculty of Engineering, Hunedoara, ROMANIA, <http://acta.fih.upt.ro/>



24th International Conference on System Theory, Control and Computing (ICSTCC 2020)

October 12 – 14, 2020, Sinaia, Romania

Organizers: Faculty of Automation, Computers and Electronics of University of Craiova; Faculty of Automatic Control and Computer Engineering of Gheorghe Asachi Technical University of Iasi; Faculty of Control Systems, Computers, Electrical and Electronics Engineering of "Dunarea de Jos" University of Galati; Faculty of Automation and Computers, Department of Automation and Applied Informatics and Department of Computers and Information Technology of Politehnica University of Timisoara

<http://ace.ucv.ro/icstcc2020/>

ICSTCC 2020 has featured several kinds of presentations, including invited talks, contributed papers and special sessions. The outcome of ICSTCC 2020 is a better understanding of some leading research areas, as already System Theory, Control and Computing have demonstrated.

ICSTCC 2020 has welcomed papers on the following topics:

- **Automation and Robotics:** Linear and Nonlinear Control System Design, System Identification and Process Modeling, Robust and Adaptive Control, Robotics and Intelligent Control, Applications and Case Studies in Automation and Robotics, Embedded Systems;
- **Computer Science and Engineering:** Distributed Systems and Software Engineering, Databases, Systems of Programs and Expert Systems, Web Services, Internet Security, Software Tools and Methods, Grid Computing, Artificial Intelligence, Computer Architectures;
- **Electronics and Instrumentation:** Modeling, Simulation and CAD Tools, Signal Processing and Communication Systems, Linear and Nonlinear Circuits and Systems, Evolutionary Electronics.

Publication of papers:

IEEE Xplore Digital Library, please visit <http://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=ICSTCC%202020>



MTM & Robotics 2020

The Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International Conference on Robotics (Robotics)

October 21st - 23rd, 2020, Timișoara, Romania

Organizer: University Politehnică of Timișoara

<https://mctr.mec.upt.ro/mtm-robotics-2020/>

The aim of the joint conference is to bring together researchers, scientists, industry experts and PhD students involved in the general area of mechanisms, mechanical transmissions, robotics and mechatronics, to disseminate their latest research results and exchange views on the future research directions of these fields.

Topics

MTM: Mechanisms – analysis and synthesis; Dynamics of mechanisms and machines; Mechanical Transmissions; Biomechanics; Precision mechanics; Mechatronics; Micromechanisms and Microactuators; Computational and Experimental Methods; CAD in mechanism and machine design.

Robotics: Mechanical design of robot architecture; Parallel robots; Mobile robots; Micro and Nano robots; Sensors and actuators in robotics; Intelligent control systems; Biomedical engineering; Teleoperation, haptics, virtual reality.

Publication of papers:

Springer Nature Switzerland AG 2021, ISSN 2211-0984, ISSN 2211-0992 (electronic)

Mechanisms and Machine Science, ISBN 978-3-030-60075-4, ISBN 978-3-030-60076-1 (eBook)

<https://doi.org/10.1007/978-3-030-60076-1>



14th International Symposium on Electronics and Telecommunications (ISETC'20)

November 05 - 06, 2020, Timișoara, Romania

Organizers: • Faculty of Electronics, Telecommunications and Information Technologies, • Politehnică University Timișoara, • Association of Electronics and Telecommunication Engineering from Timișoara, in association with: • IEEE Romania, • Romania Communication Chapter, • Romania Joint Chapter Communications/IEEE Information Theory/Signal Processing Societies, • ASTR - Romanian Academy of Technical Sciences

<http://conference.etc.upt.ro/isetc2020/>

Since 1994, when the first edition of the International Symposium on Electronics and Telecommunications took place, the scientific event has grown from a national happening to an important international event, organized every two years. If in the beginning the papers were published in the Scientific Bulletin of the Politehnică University Timișoara, since 2010 the Symposium has become independent and the papers are published in a dedicated proceeding. Moreover, papers of 2010, 2012, 2014, 2016 and 2018 editions were included in IEEE eXplore and Clarivate Analytics Web of Sciences databases. We are proud that throughout these 26 years we faced a continuous increase both in quantity and in quality of the papers.

Topics of the conference covers following fields:

1. Advances on Intelligent Electronic Systems, 2. Artificial Intelligence and Computer Vision, 3. Instrumentation and Measurement, 4. Open Education and Emerging Technologies, 5. Power Electronics, 6. Signal Processing, 7. Telecommunications

During the conference 99 papers, written by 294 authors from 5 countries, were presented.

Unfortunately, due to the COVID pandemic situation, taking into consideration associated restrictions regarding travels, social distancing and people gathering, the Organizing Committees in agreement with technical sponsors and IEEE have decided to hold this edition of the ISETC conference, in order to assure under these circumstances, the safety and well-being of all participants, fully on-line. It is a new experience which hopefully will be interesting and exciting for the authors who have been chosen to publish their research results in the Proceedings of ISETC'20.

Proceedings of ISETC'20 were published in IEEE eXplore databases: <https://ieeexplore.ieee.org/xpl/conhome/9301024/proceeding>



The 11th International Conference “Innovative Technologies for Joining Advanced Materials”

TIMA20

November 26–27, 2020, Timișoara, Romania (Online through the zoom platform)

Organizers: • Nicușor-Alin Sîrbu (Conference Chair) Phd.eng. – ISIM Timișoara (Romania)
• Florin Drăgan Assoc.Prof.PhD.Eng. – Politehnica University Timișoara (Romania)
• Vladimir-Ioan Crețu Prof.PhD.Eng. – Technical Sciences Academy of Romania – Timișoara Subsidiary (Romania)

http://www.isim.ro/tima/tima20_home.php

The international conference has been focused on several fields of application, has featured several kinds of presentations, including invited talks, contributed papers and posters.

The conference topics were:

- New joining technologies • Coatings: advanced materials & innovative technologies • Modelling and simulation of welding and allied processes
- Specific problems in advanced materials joining • Advanced methods and new trends in NDT • Mechanical and structural characterization of advanced materials and joints • Quantitative non-destructive testing • Fracture mechanics of advanced materials • Damage of advanced materials under time-dependent-actions and remaining life assessment, fatigue, creep, corrosion, irradiation • Quality of welded joints and welded structures

Publication of papers:

Conference proceedings will be published in Trans Tech Publications’ periodical ‘Key Engineering Materials’ (printed and online) and ‘Advanced Materials Research’ (online), selected materials, science related papers only, with Indexing and DOI. The periodical will be available in full text online at www.scientific.net/KEM and www.scientific.net/AMR.

Conference proceedings will be indexed in major international database: SCOPUS, Ei Compendex, REAXYS Etc.