Join as an Editorial Member

With all due respect, we kindly ask you to accept our invitation to become a member of the Editorial Committee of our journal entitled "ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering", wich is published online at http://www.imtuoradea.ro/auo.fmte/.

As we stated in the "Aims and Scope", our Journal - *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* - is dedicated to the scientific progress in the field of mechanical engineering, mechanics and mechanical machining applied to areas ranging from metal parts engineering to the manufacturing of ceramic, composite or other structural materials used in a broad spectrum of industries. Also, our Journal welcomes and promotes different theories on the natural and organic materials, as well as on biotechnology and bioengineering. Thus, the journal *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* aims to cover the main areas of mechanical engineering, as follows:

- Basic technological processes (mechanical, thermal, electrical, chemical, electrochemical, thermo-chemical, biochemical) that include: development of materials and semi-finished products; removal of materials (cutting); deposition of materials; deformation of materials in solid state, semi-solid state, or in the form of metal or non-metal powders; assembly and installation technologies; surface coatings and heat treatment; evolution of the mechanical features of materials during machining and heat treatment;
- Output of machine tools and flexible manufacturing systems;
- Conventional design and industrial design systems;
- Special scientific developments and approaches to conventional and unconventional processes;
- State-of-the-art technologies and new scientific approaches to the geometric precision/ micro-machining (ultra accurate machining technologies using machine tools);
- Design and functional behavior of equipment and machine tools;

The above list is not an exhaustive one, since, for instance, manufacturing engineering is undergoing major transformations because of the challenges of the current trends in miniaturization, the emergence of new materials and the development of interface technologies, such as those arising from the cooperation between biologists and engineers.

Although traditionally, the "top-down" manufacturing approach used to be the successful one, recently, it has been replaced by the "bottom-up" approach. The latter is supported by the improvement of the production quality, as a result of an increase in production efficiency. In this context, the editorial policy of the journal *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* focuses on the following areas of interest:

- Micro and nanomanufacturing, including lithography, volume micromachining (selective chemical corrosion), surface micromachining (*e.g.* planar structuring of the polycrystalline silicium sub-layer surface, or multi-layer coating processes), photolithography, electron lithography, roentgen lithography, ion lithography, lift-off technique;
- Rapid prototyping (Fused Deposition Modeling (FDM), Laminated Object Manufacturing (LOM), Selective Laser Sintering (SLS), Stereolithography (SL));
- Rapid manufacturing and repair;
- Other 3D manufacturing techniques that use optical projection technology;
- Modeling and simulation of the material continuum;
- Tribology and wear phenomena that influence manufacturing and its effectiveness.

The Journal *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* encourages the researchers in the field of manufacturing systems to collaborate intensively by sending relevant papers to this field for the promotion and advancement of this branch of engineering. Guided by the definition of the manufacturing systems: "Manufacturing systems are comprised of products, equipment, people, information, control and support functions used in such way that the economic and competitive development, production, delivery and total life cycle of products satisfy the market and societal needs", the Editorial Board of the Journal considers that the papers written in the field of manufacturing systems are a direct benefit of the Journal obtained from providing open access to the emerging areas of engineering. Thus, the papers inspired by the following areas of manufacturing systems would bring even more scientific prestige to our journal:

- Manufacturing strategies and paradigms;
- Design, modeling and simulation of manufacturing systems;
- Sustainable manufacturing;
- Control systems, automation and human-machine interaction;
- Quality management;
- Production development;
- Supply management and logistics;
- Manufacturing Information Systems, including enterprise modeling and ERP (enterprise resource planning);
- Conventional and unconventional micro-manufacturing technologies.

In the field of robotics and mechatronics, the Journal *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* encourages and promotes the scientific interest mainly in the area of process engineering, welcoming those articles that highlight the relation between precision mechanical engineering, control systems and artificial intelligence. This relation aims to achieve, in fact, a balance between the design, manufacturing and mechanical functioning of a system on one side, and the electronic control of this system, on the other side. This philosophy covers a wide range of applications and theories from very large areas, including consumer production design, manufacturing techniques, computer-integrated manufacturing and control equipment:

- Flexible automation;

- Micromechanical systems;
- "Biotech" manufacturing;
- Concurrent engineering;
- IT Integration in manufacturing;
- Design philosophy in mechatronics;
- Design of hyper-intelligent equipment, machines and manufacturing systems

In mechanical engineering, papers accepted for publication must approach the following topics:

- Analytical and computational modeling (FEA, FEM, mesh-free method);
- Rigid solid mechanics (dynamics, vibrations, stability);
- Structural mechanics;
- Elastic, plastic, viscoplastic, viscoelastic deformation of materials;
- Behavior and applications of advanced materials (*e.g.* shape memory composites);
- Impact mechanics (*e.g.* elastic collision, plastic collisions);
- Behavior of materials with nonlinear mechanical properties;
- Fluid mechanics and thermodynamics.

The Journal *"ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering"* particularly encourages and supports the publication of those original scientific papers that contain comparisons between the various theories and practical applications found in engineering.

We would be extremely obliged to you if you made us the honor to accept the invitation of becoming a member of our Editorial Committee, invitation motivated mostly by your outstanding reputation and professional prestige in the field of management and technological engineering.

If you accept our invitation please send us an e-mail message with your accept accompanied by your professional CV at address: ggrebenisan@gmail.com, or grebe@uoradea.ro.

Respectfully,

Gavril Grebenisan,

Editor in Chief of
ANNALS OF THE UNIVERSITY OF ORADEA.
Fascicle of Management and Technological Engineering