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FORWARD

The volume dedicated The Great Union Centenary includes a selection of the papers presented at the Annual Symposium of the Institute of Solid Mechanics and of the Session of the Commission of Acoustics, SISOM 2017. This is the XXVIIIth edition of the Symposium and, as the most previous ones, it has been granted by international participation.

One way for speeding up research and development and so contribute to the efficient exchange of new knowledge is the organization of scientific meetings. The intention of SISOM meetings is to bring together scientists and engineers involved in various fields of solid mechanics, covering research and development as well as technical applications.

I am grateful to all speakers for the quality of their presentations and to all attendants for enthusiastic discussion that took place. All submitted papers are included in the conference electronic proceedings. The Referee Board selected 27 published papers to be included in this volume, from the 49 presented papers at the conference, about 37% rejection factor. Papers presented at SISOM cover a large area of research fields in mechanics: System dynamics and Continuum Mechanics, Robotics and Mechatronics, Wear Investigations of Materials and Biomechanics, Technical Acoustics. The most 7 representative papers were included in one special section of excellence in solid mechanics. Renowned personalities from Romanian scientific research have participated for the conference successfulness, along with many other researches from important university.

Support and help in organizing the conference were received from the Section of Technical Sciences of Romanian Academy, NASR (ANCS)-National Authority for Scientific Research, RATS (ASTR)-Academy for Technical Sciences of Romania, Mediamira Publishing House Cluj-Napoca, The General Association of Romanian Engineers AGIR and VTC- Industrial Engineering and Technology, dealer ABB. I would-like to express my thanks to all of them and to many others whose dedicated work was of great help in organizing the conference and editing the Proceedings. Special thanks are due to the ANCS for financial support that made possible the publishing of the SISOM Proceedings.

I am strongly convinced the conference and this Proceedings will initiate many suggestions for further extension of knowledge in the field of solid mechanics and will also give new opportunities for scientific cooperation.

Corresponding Member of the Romanian Academy

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Director of the Institute of Solid Mechanics of Romanian Academy

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Table of Contents

EXCELLENCE IN SOLID MECHANICS

1. Study of the information concept and of the information quality,
D. A. IORDACHE, R. N. DOBRESCU 13
2. Generalized single valued neutrosophic graphs of first type,
S. BROUMI, A. BAKALI, M. TALEA, F. SMARANDACHE, A. HASSAN 23
3. 3D simulation of a mechanical structure for induction hardening using Unity3D,
I.A. GAL, L.VLADAREANU, R.A. MUNTEANU, O. MELINTE, Y. FENG, M. PANDELEA 33
4. Mixtures of principal component analyzers for speaker identification systems,
S. SEGARCEANU, T. ZAHARIA 39
5. Friction and contact stress analysis during the fretting fatigue,
L. CAPITANUI, L.L. BADITA, C. TIGANESTEANU, V. FLORESCU 51
6. Extensions of spline interpolation techniques applied in serial robotic manipulators,
V.A. GROSU, L. VLADAREANU, M.S. MUNTEANU, H. WANG, V. VLĂDĂREANU,
Y. FENG, M. RĂDULESCU 69
7. Analysis and modeling of electrical discharge machining (EDM) parameters,
C. RUGINA, V. CHIROIU, V. MOSNEGUTU 77

MECHANICAL MODELING AND EXPERIMENT, WEAR INVESTIGATIONS OF MATERIALS, BIOMECHANICS

1. The utilization versions of the new suspension with trim corrector and their performances,
A.I. NICULESCU 87
2. An inverse problem for a general Stewart platform,
C. DUMITRIU, V. CHIROIU, M. CIUNCANU 97
3. Experimental analysis of vibrations at a Pelton turbine,
D.C. CARP-CIOCARDIA, C.A. SAFTA, A. DRAGOMIRESCU, I. MAGHETI, M. SCHIAUA 107
4. On the optimum design of Stewart platforms with applications,
S. DUMITRU PETRE, D. DUMITRIU, V. CHIROIU 115
5. Analysis using fem of the axial - torsion buckling of a thin walled beam having cruciform profile,
L. PETRACHE, V. ANGHEL, Ș. SOROHAN 121
6. Structural loads for stress analysis of aeronautical structures,
D. BARAN, M. PETRE 127
7. Analysis of the seismic damping capacity of the elastomeric isolators corresponding to the discrete changes of physical mechanical properties of the constitutive elements,
S.A. POPA 133
8. Dynamic simulation of vibration generated by diesel generator engine of cruise ship,
I. NICOLAE 139

9. Automatic regulation of absolute stability for the dynamics tools cutting machine case in wood or composite material structure, 145
M. LUPU

ROBOTICS AND MECHATRONICS

1. Bending sensors used to command a virtual anthropomorphic gripper for robots, 157
I. STARETU, C. MOLDOVAN
2. On environment's dynamic system mathematical model and on possibilities to improve stable evolution, 163
M. MIGDALOVICI, S. CONONOVICI, L. VLĂDĂREANU, R.I. MUNTEANU, G. SECRIERU, V. VLĂDĂREANU, N. POP, A. VLĂDEANU, D. BARAN, G. VLĂDEANU, Y. FENG
3. Six-wheel robot real time control applied in VIPRO Platform, 171
O. MELINTE, L. VLADAREANU, I.A. GAL, V. VLADAREANU, M. ILIESCU
4. Centre of mass trajectory fuzzy compensator for biped robots, 177
S. DUMITRU PETRE
5. Complex mechatronic system used for obtaining Perovskite solar cells, 183
M. ILIESCU, L. VLADAREANU, M. LAZĂR, D. MARIN, M. PANDELEA, O. MELINTE, I. PINTILIE
6. Analysis of chatter vibration in milling process, 189
D. MARIN, M. ILIESCU
7. The control of the bucket position at the excavators equipped with sensors of length at the hydraulic cylinders, 195
A. VLĂDEANU, G. VLĂDEANU

TECHNICAL ACOUSTICS AND VIBRATION, SPEECH TECHNOLOGY

1. Nonparametric analysis for the speaker verification tasks on handheld devices with limited training data, 205
F. CURELARU
2. On the propagation of evanescent waves in sonic composites, 213
I. GIRIP, L. MAJERCSIK, R. IOAN, L. MUNTEANU
3. Considerations on electromagnetic humidity contactless measurements in simple brickwork walls and wooden walls, 221
T. BURLAN-ROTAR, G. DUMITRU, A.I. PRELIPCEANU
4. Experimental research of the fundamental characteristics of different high power audio devices equipped with NdFeB permanent magnets in the anechoic chamber, 227
L. CĂINICEANU, A.I. PRELIPCEANU

AUTHORS INDEX 231