

ROMANIAN ACADEMY
Department of Technical Sciences

ACADEMY OF TECHNICAL SCIENCES

**COMMISSION OF ACOUSTICS
OF ROMANIAN ACADEMY**



**THE ANNUAL SYMPOSIUM OF THE INSTITUTE
OF SOLID MECHANICS
SISOM 2015
and
Symposium of Acoustics
Bucharest, May 21-22, 2015**

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Session 1 – System dynamics and continuum mechanics

(1D) Dan A. IORDACHE

Entanglement and Complexity

(2D) D. DUMITRIU, V. CHIROIU

On the virtual modeling of the tactile sensing

(3D) Mircea LUPU

The biharmonic problem for the half plane and the analytical solve of the plane thermo elasticity problem

(4D) Ștefan SOROHAN, Nicolae CONSTANTIN, Constantin Valentin EPURAN

Dynamic behaviour of a solid runner for small wind turbines

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Estimation of the dynamic response of the turning platform servicing a wind turbine

(6D) Viorel ANGHEL, Ștefan SOROHAN, Nicolae CONSTANTIN, Ioan STOICA

On the analysis of a cold formed steel profile arch structure

(7D) Nicolae POP

Mathematical models in the study of quasi-static contact problems with friction for viscoelastic materials

(8D) Stefania DONESCU, Mihai CIUNCANU, Ligia MUNTEANU

Chaotic behavior of a nonlinear oscillator with kinematic excitation

- (9D) Marcel MIGDALOVICI
New definite Euclidean ring and properties
- (10D) Adriana SANDU, Marin SANDU, Dan Mihai CONSTANTINESCU, Dragoş APOSTOL
Influence of voids presence into the gluing layer on the strength of adhesively bonded butt joints
- (11D) R. ILIE, V. MOSNEGUTU
A proposal for modeling of the natural fibber composites
- (12D) Nicolae APOSTOLESCU, Daniela BARAN
Spectral Similarity in Hyperspectral Image
- (13D) Carmen DEBELEAC, Silviu NASTAC
Computational dynamics of hoist and drag cables within simulation of dragline bucket behaviour
- (14D) Silviu NASTAC, Carmen DEBELEAC, Adrian LEOPA
Dynamic characterization of failure imminence for elastomeric-based vibration isolators
- (15D) Aurora POTIRNICHE and Gigel CAPATANA
On structural vibration mitigation using dynamic-constrained pendulum systems
- (16D) Gigel CAPATANA and Carmen DEBELEAC,
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(17D) Emil Matei VIDEA,
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(18D) Adrian I. NICULESCU
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Session 2 – Robotics and mechatronics

- (1R) Luige VLADAREANU, Radu Ioan MUNTEANU, Shuang CHANG, Hongnian YU, Hongbo WANG, Victor VLADAREANU, Radu MUNTEANU, Zeng-Guang HOU, Octavian MELINTE, Xiaojie WANG, Guibin BIA, Yongfei I. FENG and Eugen ALBU,
Haptic Robot Control on Uneven Terrain and Uncertain Environment using VIPRO Platform
- (2R) Mumtaz ALI, Florentin SMARANDACHE
Neutrosophic Soluble Groups, Neutrosophic Nilpotent Groups and Their Properties
- (3R) Florentin SMARANDACHE
(T, I, F)-Neutrosophic Structures
- (4R) Ioan DUMITRACHE, Simona CARAMIHAI, Mihnea MOISESCU, Ioan SACALA, Calin MUNTEANU
A cyber physical systems approach for robotic systems design
- (5R) Dragos REPTA, Mihnea MOISESCU, Ioan SACALA, Ioan DUMITRACHE, Simona CARAMIHAI, Calin MUNTEANU
Automated process modelling for robotic systems
- (6R) Ionel STAREȚU, Cătălin MOLDOVAN
CAD project and prototype for an anthropomorphic gripper for robots - Simulation and testing
- (7R) Alexandru VLĂDEANU, Gabriela VLĂDEANU
The control of the walking robot leg movement

- (8R) Marcel MIGDALOVICI, Luige VLADAREANU, Daniela BARAN, Gabriela VLADAEANU
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- (9R) Victor VLADAREANU, Ovidiu Ilie SANDRU, Mihnea MOISESCU, Florentin SMARANDACHE,
Hongnian YU,
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- (10R) Victor VLADAREANU, Sergiu Boris CONONOVICI, Marcel MIGDALOVICI, Mihaiela ILIESCU,
Paul SCHIOPU, Corina BOSCOIANU, Mihai RADULESCU
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- (11R) Ovidiu Ilie SANDRU, Victor VLADAREANU, Ioan SACALA, Oana CHENARU,
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- (12R) Ovidiu Ilie SANDRU, Luige VLADAREANU, Alexandra SANDRU, Valentin BARBU,
NAO online optimization architecture. Actual results and future perspectives
- (13R) Mihaiela ILIESCU, Cristian SPIRLEANU, Mihai RADULESCU, Liviu CIUPITU and
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- (14R) Luige VLADAREANU, Alexandru GAL, Liviu CIUPITU, Mihai Stelian MUNTEANU,
Valentin BARBU, Gelu FLOREA
The 3D simulation platforms of the robots, and operating environment, integrated in the virtual projection method

(15R) Luige VLADAREANU, Octavian MELINTE, Mihai RADULESCU, Florentin SMARANDACHE,
Mumtaz ALI and Hongbo WANG
The NAO robot integration in the virtual platform VIPRO

(16R) Sergiu Boris CONONOVICI, Victor VLADAREANU,
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(17R) Doina MARIN
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(18R) Octavian MELINTE, Luige VLADAREANU
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- (2W) Constantin TIGANESTEANU, Lucian CAPITANU, Liliana-Laura BADITA
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- (3W) Constantin D. STĂNESCU, Liliana CĂINICEANU,
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- (4W) Mariana PĂTRAȘCU (ANTONESCU), Constantin D. STĂNESCU, Doina TĂRĂBUȚĂ (ENE)
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- (5W) Doina TĂRĂBUȚĂ (ENE), Constantin D. STĂNESCU, Mariana PĂTRAȘCU (ANTONESCU), Melania TĂMAȘ ,
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- (6W) Liliana CĂINICEANU, Constantin D. STĂNESCU
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- (7W) Gabi ROSCA FARTAT, Constantin POPESCU, Constantin D. STANESCU,
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- (8W) Melania TĂMAȘ, Constantin D. STĂNESCU, Doina ENE, Cătălin Marian GROSU,
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- (9W) Gabi ROSCA FARTAT, Constantin POPESCU, Constantin D. STANESCU,
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- (10W) Constantin POPESCU, Gabi ROSCA FARTAT, Constantin D. STANESCU,
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- (11W) Constantin POPESCU, Gabi ROSCA FARTAT, Constantin D. STANESCU,
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- (13W) Florin SAMER, Constantin D. STĂNESCU,
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(14W) Elena SCUTELNICU (PĂUN), Constantin D. STANESCU, Ionel SOLEMIE,
Research on wastewater from oil mills in Romanian

(15W) Tudor BURLAN-ROTAR, Constantin D. STANESCU, Melania TAMAS,
Theoretical contributions on contactless electromagnetic method for monitoring blood pulse

(16W) Tudor BURLAN-ROTAR, Constantin D. STANESCU, Melania TAMAS,
Theoretical and experimental contributions on paper moisture measurement method without contact

(17W) Liliana CĂINICEANU, Constantin D. STĂNESCU,
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- (3A) L. MUNTEANU, R. IOAN,
On the sonic composites with applications
- (4A) Marilena LAZĂR, Diana MILITARU,
The role of decision trees in natural language processing
- (5A) Tiberius ZAHARIA, Svetlana SEGARCEANU, Ion CAPATINA,
Decision trees and graphs in a two level ASR
- (6A) Svetlana SEGARCEANU, Tiberius ZAHARIA,
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- (7A) George SUCIU, Victor SUCIU, Alexandru STOICA, Inge Gavat,
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- (8A) Florin CURELARU,
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- (9A) Ovidiu GRIGORE, Inge GAVAT,
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- (10A) Mariana Cristina STAN,
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- (11A) Tiberiu PAZARA,
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- (12A) Mihai BRATU, Valeriu DANCIULESCU, Luoana Florentina PASCU, Elena BUCUR, Andrei VASILE,
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- (16A) Mihnea MAGHETI
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- (17A) Iuliana IAȘNICU (STAMATE), Ovidiu VASILE, Radu IATAN
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- (19A) Laurentiu CRISTEA, Marius DEACONU
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- (20A) Larisa BUTU, Marinela MARINESCU, Claudia BORDA, Delicia ARSENE
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- (21A) Marinela MARINESCU, Larisa BUTU, Claudia BORDA, Delicia ARSENE
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- (22A) Luminita VOICULESCU
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- (23A) Nicolae ORASANU, Craita CARP-CIOCARDIA, Ioan MAGHETI
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- (24A) Cristian RUGINA, Veturia CHIROIU
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