

LISTA CU LUCRĂRI ȘTIINȚIFICE PUBLICATE

An 2018

▶ **13** Diana Berechet, **Ioana Alexandra Rad**, Cristian Petru Berce, Bogdan Andrei Bumbu, Răvan-Marius Vicaș, Mihail-Claudius Berechet, Gheorghe Adrian Bumbu, Sanda Ileana Cîmpean, *A micro-computed tomography study of morphological aspect of root canal instrumentation with ProTaper Next and One Shape New Generation in mandibular molars*, Romanian Journal of Morphology and Embryology, 2018;59(2):499-503.

An 2017

▶ **12.** Fechete Tutunaru Lucian V., Gheres M., **Rad Ioana**, Gyorgy Z., *Effect of a simple vertical tillage tool over drag resistance and soil mobilization*, VIII International Scientific Agriculture Symposium, "Agrosym 2017", Jahorina, Bosnia and Herzegovina, Octombrie, 2017, ISBN 9789997671813.

An 2016

▶ **11. Ioana Alexandra RAD**, Mircea Cristian DUDESCU, *Reverse Engineering Technique Applied to a Human Skull*, Advances in Engineering & Management, 4th International Conference, noiembrie 17 – 18, 2016, Drobeta Turnul Severin, România, ISSN 2537-4443.

▶ **10. Ioana Alexandra RAD**, Mircea Cristian DUDESCU, *CAD 3D Model of a Hip Joint*, Advances in Engineering & Management, 4th International Conference, noiembrie 17 – 18, 2016, Drobeta Turnul Severin, România, ISSN 2537-4443.

An 2015

▶ **9.** Aranka ILEA, Silviu ALBU, Anca BUTNARU, Silviu SFRÂNGEU, Mircea Cristian DUDESCU, **Ioana Alexandra TAKACS**, ș.a., *Innovative technologies in assesing risk factors and diagnosis of facial paralysis – an interdisciplinary approach*, Transilvania Congres of Dentistry, octombrie 8 – 10 2015, Cluj - Napoca, România.

▶ **8.** Ciprian Radu RAD, Olimpiu HANCU, **Ioana Alexandra TAKACS**, Gheorghe OLTEANU, *Smart Monitoring of Potato Crop: A Cyber-Physical System Architecture Model in the Field of Precision Agriculture*, Agriculture and Agricultural Science Procedia 6, pag. 73-79, 2015.

An 2014

▶ **7. Ioana Alexandra TAKACS**, Mircea Cristian DUDESCU, Mihail HARDAU, Adrian-Ioan BOTEAN, *Experimental Validation of a Finite Element Model of an Osteoporotic Human Femoral Bone Using Strain Gauge Measurement*, ADVANCED CONCEPTS IN MECHANICAL ENGINEERING – ACME, iunie 12 – 13, 2014, Iași, Romania.

► **6. Ioana Alexandra TAKACS**, Adrian-Ioan BOTEAN, Mihail HARDAU, *Displacement-stress-strain distribution in a femoral bone by optical methods*, International Conference Interdisciplinarity in Engineering, 2014, Mureş, România.

An 2012

► **5.** Adrian-Ioan BOTEAN, **Ioana Alexandra TAKACS**, Mihail HĂRDĂU, *The study of stresses distribution for the femoral bone in bipodal support – 3D modeling*, 11th Youth Symposium on Experimental Solid Mechanics, Under the auspices of: IMEKO Technical Committee 15 and Danubia – Adria Symposium, 30th of May 2012 – 2nd of June 2012, Braşov, România, Book of Abstract ISBN 978-606-19-0079-4; Proceedings ISBN 978-606-19-0078-7. [conferinta cu referenti]

An 2011

► **4.** Adrian-Ioan BOTEAN, **Ioana Alexandra TAKACS**, Mihail HĂRDĂU, *The Study of Massive Trochanterion Fractures*, International Conference on Advancements of Medicine and Health Care through Technology – MEDITECH 2011, 29th August – 2nd September 2011, Cluj-Napoca, IFMBE Proceedings Vol. 36, ISSN 1680-0737, ISBN 978-3-642-22585-7, e-ISBN 978-3-642-22586-4.

► **3.** Adrian-Ioan BOTEAN, **Ioana Alexandra TAKACS**, Mihail HĂRDĂU, *Photoelasticimetry application in biomechanics*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Vol. 54, Issue I, 2011, ISSN 1221-5872, pag. 95-100.

► **2.** **Ioana Alexandra TAKACS**, Adrian-Ioan BOTEAN, Mihail HĂRDĂU, *Numerical and experimental analysis of the state of stresses of the femoral neck – plane modeling*, 10th Youth Symposium on Experimental Solid Mechanics, 25th – 28th May 2011, Chemnitz, Germania, ISBN 978-3-941003-34-7.

► **1.** **Ioana Alexandra TAKACS**, Adrian-Ioan BOTEAN, Mihail HARDAU, *Studiul fortelor care actioneaza asupra osului femural*, A XI-a Conferinta Nationala multidisciplinara – cu participare internationala, "Profesorul Dorin PAVEL – fondatorul hidrotehnicii romanesti", Stiinta si Inginerie, vol. 13, ISBN 973-8130-82-4, ISBN 978-973-720-197-3, 2011, Sebeş, pag. 563-570.

Notă: articolele 8 si 13 sunt indexat in reviste ISI si drept urmare se contorizeaza ca fiind 2. Dovada acestui fapt este atasata in pdf-urile cu titlurile **Articol 8** si **Articol 13**.

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- ▶ **1. Metode experimentale în rezistența materialelor - LE1.** *Determinarea factorului de concentrare al tensiunilor prin fotoelasticimetrie plană*, pag. 17-23, ISBN 978-606-737-282-3, Cluj-Napoca, 2018, UTPRESS.
- ▶ **2. Metode experimentale în rezistența materialelor - LE5.** *Studiul torsiunii barelor cu secțiune circulară*, ISBN 978-606-737-282-3, pag. 54-64, Cluj-Napoca, 2018, UTPRESS.
- ▶ **3. Solicitări simple – Solicitări axiale static determinate - Lucrare Aplicativă.**

CONTRACTE DE CERCETARE

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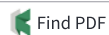
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Smart Monitoring of Potato Crop: A Cyber-Physical System Architecture Model in the Field of Precision Agriculture

By: Rad, CR (Rad, Ciprian-Radu)^[1]; Hancu, O (Hancu, Olimpiu)^[1]; Takacs, IA (Takacs, Ioana-Alexandra)^[1]; Olteanu, G (Olteanu, Gheorghe)^[2]

CONFERENCE AGRICULTURE FOR LIFE, LIFE FOR AGRICULTURE

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Conference

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Location: Bucharest, ROMANIA

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Sponsor(s): Univ Agronom Sci Vet Med Bucharest

Abstract

In the last two decades an intense shift from advanced mechatronic systems to Cyber-Physical Systems (CPS) is taking place. CPS will play an important role in the field of precision agriculture and it is expected to improve productivity in order to feed the world and prevent starvation. In order to expedite and accelerate the realization of CPS in the field of precision agriculture it is necessary to develop methods, tools, hardware and software components based upon transdisciplinary approaches, along with validation of the principles via prototypes and test beds. In this context this paper presents a precision agricultural management integrated system architecture based on CPS design technology. (C) 2015 The Authors. Published by Elsevier B.V.

Keywords

Author Keywords: cyber-physical systems; precision agriculture; mechatronics; potato crop; wireless sensors network

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Applied Cyber-Physical Systems Pages: 1-3 Published: 2014
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A micro-computed tomography study of morphological aspect of root canal instrumentation with ProTaper Next and One Shape New Generation in mandibular molars

By: Berechet, D (Berechet, Diana)^[1]; Rad, IA (Rad, Ioana Alexandra)^[2]; Berce, CP (Berce, Cristian Petru)^[3]; Bumbu, BA (Bumbu, Bogdan Andrei)^[4]; Vicas, RM (Vicas, Ravan-Marius)^[5]; Berechet, MC (Berechet, Mihail-Claudius)^[6]; Bumbu, GA (Bumbu, Gheorghe Adrian)^[6]; Cimpean, SI (Cimpean, Sanda Ileana)^[7]

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Abstract

ProTaper Next (Dentsply Maillefer, Ballaigues, Switzerland) (PTN) and One Shape New Generation (MicroMega, Besancon, France) (OSNG) belong to a relatively new generation of rotary nickel-titanium (NiTi) files. Scientists keep improving features of endodontic files in order to obtain anatomically shaped and cleaned root canals and avoid canal transportation, for a better outcome of the endodontic treatment. For the current study, the aim was to evaluate and assess the changes in root canal morphology after instrumentation with PTN and OSNG by using micro-computed tomography (CT). This high-tech resolution tomography allows a much more detailed analysis of the root canal anatomy and its transformation after rotary instrumentation. We have selected 10 mandibular molars; before and after canal preparation, the samples were distributed in two homogeneous groups (PTN and OSNG groups) and submitted to standardized radiographs and micro-CT (SkyScan1172, Kontich, Belgium). From the three-dimensional (3D) images obtained from the scanning, we were able to perform a twodimensional (2D) (perimeter, area and roundness), respectively a 3D (volume, surface area, structure model index) analysis, before and after root canal instrumentation. Results did not revealed important statistical differences among the two groups in relation to the curvature and volume of the root canals before instrumentation; after rotary instrumentation, there was a substantially increase of volume and surface area for all the samples ($p < 0.05$). The two types of instruments preserved the original canal path, maintaining a continuous, safe and adequate shape and taper of the root canals.

Keywords

Author Keywords: micro-CT; morphological aspects; NiTi files; root canal preparation

KeyWords Plus: SELF-ADJUSTING FILE; TITANIUM ROTARY SYSTEMS; EXTRACTED TEETH; CURVED CANALS; SHAFT DESIGN; ABILITY; GEOMETRY; WAVEONE; RECIPROC; CT

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Iranian endodontic journal Volume: 11 Issue: 3 Pages: 228-33 Published: 2016 (Epub 2016 May 01)
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