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ACTA MECHANICA ET

AUTOMATICA Volume: 12 Issue: 2 Pages: 141-

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6. Adjustable Polyurethane Foam as Filling Material for a Novel Spondyloplasty: Biomechanics and Biocompatibility

By: Jiang, Hongzhen; Sitoci-Ficici, Kerim Hakan; Reinshagen, Clemens; et al. WORLD

NEUROSURGERY Volume: 112 Pages: E848-

E858 Published: APR 2018

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7. Implantation of a 3D-printed titanium sternum in a patient with a sternal tumor

By: Dzian, Anton; Zivcak, Jozef; Penciak, Rastislav; et

al.

WORLD JOURNAL OF SURGICAL

ONCOLOGY Volume: 16 Article Number: 7 Published: JAN 15 2018

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8. Influence of Build Orientation, Heat Treatment, and Laser Power on the Hardness of Ti6Al4V Manufactured Using the DMLS Process

By: Guzanova, Anna; Izarikova, Gabriela; Brezinova,

Janette; et al.

METALS Volume: 7 Issue: 8 Article Number: 318 Published: AUG 2017

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Times Cited: 7 (from Web of Science Core Collection)

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9. Nanocrystalline Magnetic Glass-Coated Microwires
Using the Effect of Superparamagnetism Are Usable as
Temperature Sensors in Biomedical Applications

By: Hudak, Radovan; Polacek, Irenej; Klein, Peter; et al. Conference: 11th European Conference on Magnetic Sensors and Actuators (EMSA) Location: Torino,

ITALY Date: JUL 12-15, 2016

Sponsor(s): Italian Natl Res Inst Metrol

IEEE TRANSACTIONS ON

MAGNETICS Volume: 53 Issue: 4 Article
Number: 5300305 Part: 1 Published: APR 2017
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10. Novel Applications of Bistable Magnetic Microwires

By: Sabol, R.; Klein, P.; Ryba, T.; et al. ACTA PHYSICA POLONICA

A Volume: 131 Issue: 4 Pages: 1150-1152 Part: 2 Published: APR 2017

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11. Magnetically Bistable Microwires: Properties and Applications for Magnetic Field, Temperature, and Stress Sensing

By: Varga, Rastislav; Klein, Peter; Sabol, Rudolf; et al. HIGH PERFORMANCE SOFT MAGNETIC MATERIALS Book Series: Springer Series in Materials Science Volume: 252 Pages: 169-212 Published: 2017

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12. FEA simulation of thermal processes during the direct metal laser sintering of Ti64 titanium powder

By: Zivcak, J.; Sarik, M.; Hudak, R.

Times Cited: 3 (from Web of Science Core Collection) MEASUREMENT Volume: 94 Pages: 893-

901 Published: DEC 2016

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13. Direct Metal Laser Sintering of Ti6Al4V for Biomedical Applications: Microstructure, Corrosion Properties, and Mechanical Treatment of Implants

**Times Cited: 3** (from Web of Science Core Collection)

By: Brezinova, Janette; Hudak, Radovan; Guzanova,

Anna; et al. METALS Volume: 6 Issue: 7 Article

Number: 171 Published: JUL 2016 Free Full Text from Publisher View Abstract **Usage Count** 

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14. Addition of molybdenum into amorphous glass-coated microwires usable as temperature sensors in biomedical applications

Times Cited: 5 (from Web of Science Core Collection)

By: Hudak, Radovan; Varga, Rastislav; Polacek, Irenej; et al.

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SCIENCE Volume: 213 Issue: 2 Pages: 377-383 Published: FEB 2016

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15. Usage of Industrial Computed Tomography for **Evaluation of Custom-Made Implants** 

> By: Hudak, Radovan; Zivcak, Jozef; Toth, Teodor; et al. Conference: 10th International Conference on Digital Technologies (DT 2014) Location: Zilina, SLOVAKIA Date: JUL, 2014 APPLICATIONS OF COMPUTATIONAL INTELLIGENCE IN BIOMEDICAL TECHNOLOGY Book Series: Studies in Computational Intelligence Volume: 606 Pages: 29-45 Published: 2016

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16. Experimental measuring of the roughness of test samples made using DMLS technology from the Titanium alloy Ti-6Al-4V

By: Schnitzer, Marek; Lisy, Martin; Hudak, Radovan; et

Conference: IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMI) Location: Herl'any, SLOVAKIA Date: JAN 22-24, 2015

2015 IEEE 13TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI) Pages: 31-36 Published: 2015

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### 17. 3D cultivation of mesenchymal stromal cells from adipose tissue in alginate beads

By: Balogova, Alena; Harvanova, Denisa; Hudak, Radovan; et al.

Conference: IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMI) Location: Herl'any, SLOVAKIA Date: JAN 22-24, 2015

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70 Published: 2015

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### 18. Segmentation of MRI Data to Extract the Blood Vessels Based on Fuzzy Thresholding

By: Kubicek, Jan; Penhaker, Marek; Pavelova, Karolina; et al.

Conference: 7th Asian Conference on Intelligent Information and Database Systems (ACIIDS) Location: Bali, INDONESIA Date: MAR 23-25, 2015

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### 19. Mechanical Properties of Lumbar Bilateral Systems Using Two Different Spinal Rods are Comparable

By: Hudak, Radovan; Polacek, Irenej; Fedorova, Lucia; et al.

Conference: 6th European Conference of the International-Federation-for-Medical-and-Biological-Engineering (MBEC)Location: Dubrovnik, CROATIA Date: SEP 07-11, 2014
Sponsor(s): Croatian Med & Biolog Engn Soc; Int Federat Med & Biolog Engn; Minist Sci Educ & Sports Republic Croatia; Minist Health Republic Croatia; Univ Zagreb, Fac Elect Engn & Comp; European Alliance Med & Biolog Engn & Sci; European Cooperat Sci & Technol

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By: Hudak, Radovan; Varga, Rastislav; Hudak, Jozef; et al.

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MAGNETICS Volume: 51 Issue: 1 Article
Number: 5200104 Part: 1 Published: JAN 2015
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### 21. Hemodynamic Parameters Measurement Using Pulsed Doppler Effect

By: Kubicek, J.; Penhaker, M.; Grepl, J.; et al.
Conference: 13th IFAC and IEEE Conference on
Programmable Devices and Embedded
Systems Location: Cracow, POLANDDate: MAY 13-15,
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## 22. DIMENSIONAL VERIFICATION AND QUALITY CONTROL OF IMPLANTS PRODUCED BY ADDITIVE MANUFACTURING

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By: Toth, Teodor; Hudak, Radovan; Zivcak, Jozef QUALITY INNOVATION PROSPERITY-KVALITA INOVACIA

PROSPERITA Volume: 19 Issue: 1 Pages: 9-21 Published: 2015

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### Characteristics of Amorphous Glass-Coated Sensoric Microwires

By: Hudak, R.; Varga, R.; Hudak, J.; et al.
Conference: 15th Czech and Slovak Conference on
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SLOVAKIA Date: JUN 17-21, 2013
Sponsor(s): P J Safarik Univ, Fac Sci; Slovak Acad Sci,
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Mathematicians & Physicists; Czech Phys Soc; Quantum
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A Volume: 126 Issue: 1 Pages: 417-418 Published: JUL 2014

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By: Rajtukova, V; Hudak, R.; Zivcak, J.; et al. Conference: 6th Conference on Modelling of Mechanical and Mechatronic Systems (MMaMS) Location: Vysoke Tatry, SLOVAKIA Date: NOV 25-27, 2014 MODELLING OF MECHANICAL AND MECHATRONIC SYSTEMS Book Series: Procedia Engineering Volume: 96 Pages: 374-381 Published: 2014

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#### 25. Surface Pressure Analysis in Prosthetics and Orthotics

By: Zivcak, J.; Hudak, R.; Kristof, M.; et al. ADVANCES IN HUMAN FACTORS, ERGONOMICS, AND SAFETY IN MANUFACTURING AND SERVICE INDUSTRIES Book Series: Advances in Human Factors and Ergonomics Series Pages: 845-854 Published: 2011

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### 26. The Methodics of Medical Thermography in the Diagnostics of the Human Body Musculoskeletal System

By: Tkacova, M.; Foffova, P.; Zivcak, J.; et al. Conference: 8th International Symposium on Applied Machine Intelligence and Informatics Location: Herlany, SLOVAKIA Date: JAN 28-30, 2010 Sponsor(s): IEEE

2010 IEEE 8TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS Pages: 275-277 Published: 2010

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### 27. Medical Thermography Application in Neuro-Vascular Deseases Diagnostics

By: Tkacova, M.; Foffova, P.; Hudak, R.; et al. Conference: 8th International Symposium on Applied Machine Intelligence and Informatics Location: Herlany, SLOVAKIA Date: JAN 28-30, 2010 Sponsor(s): IEEE

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RESEARCH Volume: 45 Issue: 3-4 Pages: 321-

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By: Gal, P.; Toporcer, T.; Vidinsky, B.; et al. EUROPEAN SURGICAL

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By: Gromosova, S.; Rosocha, J.; Zivcak, J.; et al. Conference: World Congress on Medical Physics and Biomedical Engineering Location: Seoul, SOUTH KOREA Date: AUG 27-SEP 01, 2006
Sponsor(s): IUPSEM; IFMBE; IOMP; KSMP; KSMBE; AAPM; AFOMP; BMES; EFOMP; IAEA; AIMBE; IEEE EMB; WHO; SIEMENS; TomoTherapy; Philips; iba; Varian; CIVCO; Elekta; Samsung WORLD CONGRESS ON MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING 2006, VOL 14, PTS 1-6 Book Series: IFMBE Proceedings Volume: 14 Pages: 3283-+ Part: 1-

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32. Mechanical Properties of Skin Wounds after Atropa Belladonna Application in Rats

By: Toporcer, Tomas; Grendel, Tomas; Vidinsky, Boris; et al.

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By: Zivcak, J.; Kneppo, P.; Hudak, R.

Conference: 27th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society Location: Shanghai, PEOPLES R CHINA Date: AUG 31-SEP 03, 2005
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By: Zivcak, J; Hudak, R; Kneppo, P

Conference: 9th International Conference on Intelligent

Engineering Systems Location: Rhodes, GREECE Date: SEP 16-19, 2005

Sponsor(s): Budapest Tech; IEEE Reg 8; Hungarian Fuzzy Assoc; Sci Soc Org & Management; IEEE Robot & Automat Soc; IEEE Syst, Men, & Cybernet Soc; IEEE

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