

TECHNICKÁ UNIVERZITA V KOŠICIACH

STROJNÍCKA FAKULTA

Katedra aplikovanej mechaniky a strojného inžinierstva



**Strojnícka
fakulta**

**PREHLAD PREUKÁZATEĽNÝCH CITÁCIÍ A OHLASOV NA VEDECKÉ
A ODBORNÉ PRÁCE**

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Košice 2021

CITÁCIE PRÁC V DOMÁCIH PUBLIKOVANÝH DOKUMENTOCH

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB001 TREBUŇA, F., HUŇADY, R., HAGARA, M.: Experimentálne metódy mechaniky - Digitálna obrazová korelácia - 1. vyd. - Košice : TU - 2015. - 153 s.. - ISBN 978-80-553-2346-6.

[archívne číslo 165527]

Ohlasy:

2017 [2] HALAMA, R., LIPINOVÁ, L., PÁLENÍK, R.: Measurement of Cyclic Creep by Digital Image Correlation Method In: Experimental Stress Analysis 2017 : 55th International Scientific Conference : Nový Smokovec, May 30-June 1, 2017 S. 300-305 ISBN: 978-80-553-3166-9 [SCOPUS](#)

2017 [2] FUSEK, M., HALAMA, R., PORUBA, Z.: Calibration of Material Parameters during Billet Straightening In: Experimental Stress Analysis 2017 : 55th International Scientific Conference : Nový Smokovec, May 30-June 1, 2017 S. 611-615 ISBN: 978-80-553-3166-9 [SCOPUS](#)

2017 [2] PAŠKA, Z. et al.: Strain Response Determination in Notched Specimens under Multiaxial Cyclic Loading by DICM In: Experimental Stress Analysis 2017 : 55th International Scientific Conference : Nový Smokovec, May 30-June 1, 2017 S. 143-149 ISBN: 978-80-553-3166-9 [SCOPUS](#)

ADC - Vedecké práce v zahraničných karentovaných časopisoch

ADC001 TREBUŇA, F., HAGARA, M.: Experimental modal analysis performed by high-speed digital image correlation system / - 2014. In: Measurement: Journal of the International Measurement Confederation. Vol. 50, no. 1 (2014), p. 78-85. - ISSN 0263-2241

[archívne číslo 143338]

Ohlasy:

2018 [2] ŽMINDÁK, M.: Dynamic and sensitivity analysis general non-conservative asymmetric mechanical systems In: Journal of Mechanical Engineering - Strojnícky časopis Roč. 68, no. 2 (2018), s. 105-124 ISSN: 2450-5471 [SCOPUS](#)

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch

ADE002 HAGARA, M., SCHRÖTTER, M.: The printed patterns investigation for the purposes of deformation analysis performed by digital image correlation system / - 2013. In: American Journal of Mechanical Engineering. Vol. 1, no. 7 (2013), p. 185-189. - ISSN 2328-4102

[archívne číslo 141887]

Ohlasy:

2015 [2] ŠTAMBORSKÁ, M. et al.: Comparative strain analysis of 34CrMo4 steel and Inconel 738LC In: Kovové materiály Roč. 53, č. 5 (2015), s. 305-311. ISSN: 1338-4252 [WOS / SCOPUS](#)

2015 [2] ŠTAMBORSKÁ, M. et al.: Tensile deformation behaviour of ferritic-pearlitic steel studied by digital image correlation method In: Kovové materiály [online] Roč. 53, č. 6 (2015), s. 399-407 ISSN: 1338-4252 [WOS / SCOPUS](#)

2016 [2] ŠTAMBORSKÁ, M., LAPIN, J., BAJANA, O.: Effect of hydrogenation on deformation behaviour of ferritic-pearlitic steel studied by digital image correlation method In: Kovové materiály Roč. 54, č. 6 (2016), s. 397-406 ISSN: 023-432X [WOS / SCOPUS](#)

ADF - Vedecké práce v domácich nekarentovaných časopisoch

ADF005 TREBUŇA, F., ŠIMČÁK, F., TREBUŇA, P., BOBOVSKÝ, Z., PÁSTOR, M., ŠARGA, P., FRANKOVSKÝ, P., HAGARA, M.: Methodology for experimental verification of safety of packages for transport of spent nuclear fuel / - 2012.In: Acta Mechanica Slovaca. Roč. 16, č. 3 (2012), s. 34-41. - ISSN 1335-2393

[archívne číslo 134122]

Ohlasy:

2015 [4] NAGY, L.: Bristled micromachines In: Acta Mechanica Slovaca Roč. 19, č. 2 (2015), s. 6-11
ISSN: 1335-2393

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADN001 PÁSTOR, M., FRANKOVSKÝ, P., HAGARA, M., LENGVARSKÝ, P.: The use of optical methods in the analysis of the areas with stress concentration / - 2018.In: Journal of Mechanical Engineering - Strojnícky časopis. Vol. 68, no. 2 (2018), p. 61-76. - ISSN 0039-2472

[archívne číslo 194307]

Ohlasy:

2018 [2] WELCH, M.: Analysis of bolt bending in preloaded bolted joints In: Strojnícky Casopis Roč. 68, č. 3 (2018): s. 183-194 ISSN: 0039-2472 **SCOPUS**

2018 [2] BENRAHMOUNE, M. et al.: Detection and Modeling Vibrational Behavior of a Gas Turbine Based on Dynamic Neural Networks Approach In: Strojnícky Casopis Roč. 68, č. 3 (2018): s. 143-166
ISSN: 0039-2472 **SCOPUS**

2018 [2] HANDRAL, P. et al.: Optimization of Sluice Gate under Fatigue Life Subjected for Forced Vibration by Fluid Flow In: Strojnícky Casopis Roč. 68, č. 3 (2018), s. 129-142 ISSN: 0039-2472 **SCOPUS**

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC005 SCHRÖTTER, M., HAGARA, M., KALINA, M.: The analysis of different stochastic patterns during loading in plastic area using DIC method / - 2014.In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 490-495. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[archívne číslo 149757]

Ohlasy:

2015 [2] ŠTAMBORSKÁ, M. et al.: Comparative strain analysis of 34CrMo4 steel and Inconel 738LC In: Kovové materiály Roč. 53, č. 5 (2015), s. 305-311 ISSN: 1338-4252 **WOS / SCOPUS**

2015 [2] ŠTAMBORSKÁ, M. et al.: Tensile deformation behaviour of ferritic-pearlitic steel studied by digital image correlation method In: Kovové materiály Roč. 53, č. 6 (2015), s. 399-407 ISSN: 1338-4252
WOS / SCOPUS

2016 [2] ŠTAMBORSKÁ, M., LAPIN, J., BAJANA, O.: Effect of hydrogenation on deformation behaviour

of ferritic-pearlitic steel studied by digital image correlation method In: Kovové materiály Roč. 54, č. 6 (2016), s. 397-406 ISSN: 0023-432X [WOS](#) / [SCOPUS](#)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách

AFC006 HAGARA, M., ŠIMČÁK, F., KALINA, M.: The knowledge acquired by using of optical methods by strain fields investigation / - 2014. In: Applied Mechanics and Materials : EAN 2013 : 51st Annual of the International Scientific Conference on Experimental Stress Analysis : Litomerice, Czech Republic, 11-13 June 2013. Vol. 486 (2013), p. 141-146. - ISBN 978-303785977-3 - ISSN 1660-9336

[archívne číslo 142431]

Ohlasy:

2017 [2] HALAMA, R., HORŇÁČEK, L., ŠMIRAUS, J.: Comparison of ESPI and DIC Strain Contours Measurements under Three Loading Cases In: Experimental Stress Analysis 2017 : 55th International Scientific Conference : Nový Smokovec, May 30-June 1, 2017 S. 359-363 ISBN: 978-80-553-3166-9 [SCOPUS](#)

CITÁCIE PRÁC V ZAHRANIČNÝCH PUBLIKOVANÝCH DOKUMENTOCH

AAB - Vedecké monografie vydané v domácich vydavateľstvách

AAB001 TREBUŇA, F., ŠIMČÁK, F., HUŇADY, R., PÁSTOR, M., FRANKOVSKÝ, P., HAGARA, M.: Využitie optických metód v experimentálnej mechanike 2 - 1. vyd - Košice : TU - 2015. - 260 s.. - ISBN 978-80-553-2273-5.

[archívne číslo 163695]

Ohlasy:

2018 [1] TAN, W. et al.: Experiment Study on Fluidelastic Instability of Tube Bundles Consisting of Different Frequency Tubes with Visual Image Processing System In: Journal of Pressure Vessel Technology, Transactions of the ASME Vol. 140, no. 3 (2018), art. no. 031302 ISSN: 0094-9930 [WOS](#) / [SCOPUS](#)

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB002 TREBUŇA, F., HUŇADY, R., HAGARA, M., PÁSTOR, M.: Experimentálne metódy mechaniky - Laserová vibrometria a ESPI - 1. vyd. - Košice : TU - 2015. - 183 s.. - ISBN 978-80-553-2347-3.

[archívne číslo 165528]

Ohlasy:

2019 [1] MURČINKOVÁ, Z. et al.: Damping properties of fibre composite and conventional materials measured by free damped vibration response In: Advances in Mechanical Engineering Vol. 11, no. 5 (2019), DOI:10.1177/1687814019847009 ISSN: 1687-8132 [WOS](#) / [SCOPUS](#)

ADC - Vedecké práce v zahraničných karentovaných časopisoch

ADC001 TREBUŇA, F., HAGARA, M.: Experimental modal analysis performed by high-speed digital image correlation system / - 2014. In: Measurement: Journal of the International Measurement Confederation. Vol. 50, no. 1 (2014), p. 78-85. - ISSN 0263-2241

Ohlasy:

2014 [1] ZHU, F. et al.: Measurement of true stress-strain curves and evolution of plastic zone of low carbon steel under uniaxial tension using digital image correlation In: Optics and Lasers in Engineering Vol. 65 (2014), p. 81-88 ISSN: 0143-8166 [WOS / SCOPUS](#)

2014 [1] WANG, Z., NGUYEN, H., QUISBERTH, J.: Audio extraction from silent high-speed video using an optical technique In: Optical Engineering Vol. 53, no. 11 (2014), p. 110502-1-110502-3 ISSN: 0091-3286 [WOS / SCOPUS](#)

2017 [1] BAQERSAD, J. et al.: Photogrammetry and optical methods in structural dynamics - A review In: Mechanical Systems and Signal Processing Vol. 86, part: B special no. SI (2017), p. 17-34 ISSN: 0888-3270 [WOS / SCOPUS](#)

2017 [1] BERTINI, L. et al.: Automated Experimental Modal Analysis of Bladed Wheels with an Anthropomorphic Robotic Station In: Experimental Mechanics Vol. 57, no. 2 (2017), p. 273-285 ISSN: 0014-4851 [WOS / SCOPUS](#)

2016 [3] ZHU, P. et al.: Experimental research on dynamic characteristics analysis of machine tool based on unit structure In: Revista de la Facultad de Ingeniería U.C.V. Vol. 31, no. 4 (2016), p. 70-84 ISSN: 2443-4477

2017 [1] SEBASTIAN, C. M., LÓPEZ-ALBA, E., PATTERSON, E.A.: A comparison methodology for measured and predicted displacement fields in modal analysis In: Journal of Sound and Vibration Vol. 400 (2017), p. 354-368 ISSN: 0022-460X [WOS / SCOPUS](#)

2017 [1] MOLINA-VIEDMA, Angel J. et al.: Full-field modal analysis during base motion excitation using high-speed 3D digital image correlation In: Measurement Science and Technology Vol. 28, no. 10 (2017), art. no. 105402 ISSN: 0957-0233 [WOS / SCOPUS](#)

2018 [1] FELIPE-SESÉ, L., DÍAZ, F.A.: Damage methodology approach on a composite panel based on a combination of Fringe Projection and 2D Digital Image Correlation In: Mechanical Systems and Signal Processing Vol. 101 (2018), p. 467-479 ISSN: 0888-3270 [WOS / SCOPUS](#)

2018 [1] MOLINA-VIEDMA, Á.J. et al.: Modal Parameters Evaluation in a Full-Scale Aircraft Demonstrator under Different Environmental Conditions Using HS 3D-DIC In: Materials Vol. 11, no. 2 (2018), art. number 230 ISSN: 1996-1944 [WOS / SCOPUS](#)

2018 [1] DENG, H. et al.: Three-Dimensional Identification for Unbalanced Mass of Rotor Systems in Operation In: Applied Sciences Vol. 8, no. 2 (2018), art. number 173 ISSN: 2076-3417 [WOS / SCOPUS](#)

2018 [1] MOLINA-VIEDMA, Á.J. et al.: Modal Identification in an Automotive Multi-Component System Using HS 3D-DIC In: Materials Vol. 11, no. 2 (2018), art. number 241 ISSN: 1996-1944 [WOS / SCOPUS](#)

2018 [1] MOLINA-VIEDMA, A.J. et al.: High frequency mode shapes characterisation using Digital Image Correlation and phase-based motion magnification In: Mechanical Systems and Signal Processing Vol. 102 (2018), p. 245-261 ISSN: 0888-3270 [WOS / SCOPUS](#)

2018 [1] MOLINA-VIEDMA, A.J. et al.: 3D mode shapes characterisation using phase-based motion magnification in large structures using stereoscopic DIC In: Mechanical Systems and Signal Processing Vol. 108 (2018), p. 140-155 ISSN: 0888-3270 [WOS / SCOPUS](#)

2018 [1] SEGUÉL, F., MERUANE, V.: Damage assessment in a sandwich panel based on full-field

vibration measurements In: Journal of Sound and Vibration Vol. 417, p. 1-8 ISSN: 0022-460X [WOS](#) / [SCOPUS](#)

2019 [1] SONY, S., LAVENTURE, S., SADHU, A.: A literature review of next-generation smart sensing technology in structural health monitoring In: Structural Control and Health Monitoring Vol. 26, no. 3 (2019), p. 1-22 ISSN: 1545-2255 [WOS](#) / [SCOPUS](#)

2019 [1] LIU, J., YANG, X., ZHU, M.: Neural network with confidence kernel for robust vibration frequency prediction In: Journal of Sensors Art. no. 6573513 (2019) ISSN: 1687-725X [WOS](#) / [SCOPUS](#)

2018 [3] WOLLMANN, T. et al.: Combined experimental-numerical approach for the 3D vibration analysis of rotating composite compressor blades: An introduction In: ECCM18 : 18th European Conference on Composite Materials : Athens, Greece, 24-28 June 2018 P. 1-8

2019 [1] LIU, J., YANG, X., LI, L.: VibroNet: Recurrent neural networks with multi-target learning for image-based vibration frequency measurement In: Journal of Sound and Vibration Vol. 457 (2019), p. 51-66. ISSN: 0022-460X [WOS](#) / [SCOPUS](#)

2019 [1] DENG, H.X. et al. A stereovision measurement for large deformation of light structures In: Measurement Vol. 136 (2019), p. 387-394 ISSN: 0263-2241 [WOS](#) / [SCOPUS](#)

2019 [1] FELIPE-SESE, L. et al.: FP plus DIC for low-cost 3D full-field experimental modal analysis in industrial components In: Mechanical Systems and Signal Processing Vol. 128 (2019), p. 329-339 ISSN: 0888-3270 [WOS](#) / [SCOPUS](#)

2020 [1] YUAN, F.g., ZARGAR, S.a., CHEN, Q., WANG, S.h.: Machine learning for structural health monitoring: challenges and opportunities. In: Proceedings of SPIE: Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems: Electronic network ISBN 978-1-5106-3536-4 ISSN 0277-786X [WOS](#) / [SCOPUS](#)

2020 [1] NARESH, K. et al.: High strain rate studies for different laminate configurations of bidirectional glass/epoxy and carbon/epoxy composites using DIC. In: Structures Vol. 27, no. (2020): p. 2451-2465. ISSN 2352-0124 [WOS](#) / [SCOPUS](#)

2020 [1] CUADRADO, M. et al.: Model updating of uncertain parameters of carbon/epoxy composite plates using digital image correlation for full-field vibration measurement. In: Measurement Vol. 159, no. (2020): p. 1-17. ISSN 0263-2241 [WOS](#) / [SCOPUS](#)

2020 [1] JANNIFAR, A., ZUBIR, M.N.M., KAZI, S.N.: An innovative approach for conducting experimental modal analysis (EMA) in running harmonic for structural modal identification. In: Measurement Vol. 159, no. (2020): p. 1-12. ISSN 0263-2241 [WOS](#) / [SCOPUS](#)

2020 [1] MOLINA-VIDEVA, A.J. et al.: Comparative of conventional and alternative Digital Image Correlation techniques for 3D modal characterisation. In: Measurement Vol. 151, no. (2020): p. 1-8. ISSN 0263-2241 [WOS](#) / [SCOPUS](#)

2020 [1] XU, Y.: Photogrammetry-based structural damage detection by tracking a visible laser line. In: Structural Health Monitoring - an International Journal Vol. 19, no. 1(2020): p. 322-336. ISSN 1475-9217 [WOS](#) / [SCOPUS](#)

ADC002 HUŇADY, R., HAGARA, M.: A new procedure of modal parameter estimation for high-speed digital image correlation / - 2017.In: Mechanical Systems and Signal Processing. Vol. 93 (2017), p. 66-79. - ISSN 0888-3270

[archívne číslo 179292]

Ohlasy:

2018 [1] MOLINA-VIEDMA, Á.J. et al.: Modal Parameters Evaluation in a Full-Scale Aircraft Demonstrator under Different Environmental Conditions Using HS 3D-DIC In: Materials Vol. 11, no. 2 (2018), art. number 230 ISSN: 1996-1944 [WOS / SCOPUS](#)

2018 [1] TAN, Wei et al.: Experiment study on fluidelastic instability of tube bundles consisting of different frequency tubes with visual image processing system In: Journal of Pressure Vessel Technology Vol. 140, no. 3 (2018), art. no. 031302 ISSN: 0094-9930 [WOS / SCOPUS](#)

2018 [1] WANG, L.-Z. et al.: Measurement of full-field strain in cell phone dropping test by high-speed 3D digital image correlation method In: Optics and Precision Engineering Vol. 26, no. 9 (2018), p. 2174-2180 ISSN: 1004-924X [SCOPUS](#)

2018 [1] QIAN, B. et al.: Full-field deformation and strain measurement of vehicle body under high-speed impact In: Measurement Science and Technology Vol. 29, no. 9 (2018), art. no. 095004 ISSN: 0957-0233 [WOS / SCOPUS](#)

2018 [1] TANG, Y.C. et al.: Binocular vision measurement and its application in full-field convex deformation of concrete-filled steel tubular columns In: Measurement Vol. 130 (2018), p. 372-383 ISSN: 0263-2241 [WOS / SCOPUS](#)

2018 [1] MOLINA-VIEDMA, A.J. et al.: Modal identification in an automotive multi-component system using HS 3D-DIC In: Materials Vol. 11, no. 2 (2018), art. no. 241 ISSN: 1996-1944 [WOS / SCOPUS](#)

2018 [1] LIU, L. et al.: The fluid elastic instability of concentric arrays of tube bundles subjected on cross flow In: ASME 2018 : Pressure Vessels and Piping Conference : Prague, 15-20 July, 2018 S. l. : American Society of Mechanical Engineers, 2018 ISBN: 978-0-7918-5165-4 [WOS / SCOPUS](#)

2019 [1] ZHANG, C. et al.: An innovative technique for real-time adjusting exposure time of silicon-based camera to get stable gray level images with temperature evolution In: Mechanical Systems and Signal Processing Vol. 122 (2019), p. 419-432 ISSN: 0888-3270 [WOS / SCOPUS](#)

2019 [1] MOLINA-VIEDMA, A.J. et al.: Operational Deflection Shape Extraction from Broadband Events of an Aircraft Component Using 3D-DIC in Magnified Images In: Shock and Vibration Art. no. 4039862 (2019) ISSN: 1070-9622 [WOS / SCOPUS](#)

2019 [1] ZHONG, J. et al. Real-time three-dimensional vibration monitoring of rotating shafts using constant-density sinusoidal fringe pattern as tri-axial sensor In: Mechanical Systems and Signal processing Vol. 115 (2019), p. 132-146 ISSN: 0888-3270 [WOS / SCOPUS](#)

2019 [1] FELIPE-SESE, L. et al. FP plus DIC for low-cost 3D full-field experimental modal analysis in industrial components In: Mechanical Systems and Signal Processing Vol. 128 (2019), p. 329-339 ISSN: 0888-3270 [WOS / SCOPUS](#)

2019 [1] REUMERS, P. et al. Density filtering regularization of finite element model updating problems In: Mechanical Systems and Signal Processing Vol. 128 (2019), p. 282-294 ISSN: 0888-3270 [WOS / SCOPUS](#)

2019 [1] DURAND-TEXTE, T. et al. Vibration measurement using a pseudo-stereo system, target tracking and vision methods In: Mechanical Systems and Signal Processing Vol. 118 (2019), p. 30-40 ISSN: 0888-3270 [WOS / SCOPUS](#)

2020 [1] TANG, Y. et al.: Vision-Based Three-Dimensional Reconstruction and Monitoring of Large-Scale

Steel Tubular Structures. In: Advances in Civil Engineering Vol. 2020, no. (2020): p. 1-17. ISSN 1687-8086 [WOS / SCOPUS](#)

2020 [1] POPOVIC, D. et al.: Sustainable development of pressure equipment using 3D digital image correlation method. In: Chemical Industry & Chemical Engineering Quarterly Vol. 26, no. 3(2020): p. 287-293. ISSN 1451-9372 [WOS / SCOPUS](#)

2020 [1] WANG, C. et al.: Correction of start-up time difference-induced measurement errors of a high-speed binocular stereovision system. In: Optics and Lasers in Engineering Vol. 126, no. (2020): p. 1-9. ISSN 0143-8166 [WOS / SCOPUS](#)

2020 [1] MOLINA-VIEDMA, A.J. et al.: Comparative of conventional and alternative Digital Image Correlation techniques for 3D modal characterisation. In: Measurement Vol. 151, no. (2020): p. 1-8. ISSN 0263-2241 [WOS / SCOPUS](#)

2020 [1] CUADRADO, M. et al.: Model updating of uncertain parameters of carbon/epoxy composite plates using digital image correlation for full-field vibration measurement. In: Measurement Vol. 159, no. (2020): p. 1-17. ISSN 0263-2241 [WOS / SCOPUS](#)

2020 [1] MOLINA-VIEDMA, A.J. et al.: Damage identification in frame structures using high-speed digital image correlation and local modal filtration. In: Structural Control & Health Monitoring Vol. 27, no. 9(2020): p. 1-16. ISSN 1545-2255 [WOS / SCOPUS](#)

2020 [1] JIANG, T. et al.: A robust line-tracking photogrammetry method for uplift measurements of railway catenary systems in noisy backgrounds. In: Mechanical Systems and Signal Processing Vol. 144, no. (2020): p. 1-24. ISSN 0888-3270 [WOS / SCOPUS](#)

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch

ADE001 LENGVARSKÝ, P., BOCKO, J., HAGARA, M.: Modal analysis of titan cantilever beam using ANSYS and SolidWorks / - 2013. In: American Journal of Mechanical Engineering. Vol. 1, no. 7 (2013), p. 271-275. - ISSN 2328-4102

[archívne číslo 141858]

Ohlasy:

2015 [3] DEWANTORO, G., BUDHIANTHO, M.H.W.: Javanese Gong Acoustics and Its Modeling using Finite Element Method In: TELKOMNIKA: Indonesian Journal of Electrical Engineering Vol. 14, no. 1 (2015), p. 147-153 ISSN: 2302-4046

2015 [3] SAMPATH, S.S., SAWAN, S., CHITHIRAI PON SELVAN, M.: Modal Analysis of Cantilever Beam with T-Section using Finite Element Method In: International Journal of Recent Development in Engineering and Technology [online] Vol. 4, no. 1 (2015), p. 6-11 ISSN: 2347-6435

2015 [3] SAMPATH, S.S., SAWAN, S., CHITHIRAI PON SELVAN, M.: Vibration analysis of hollow sectioned curved beam using finite element method In: European Journal of Advances in Engineering and Technology Vol. 2, no. 2 (2015), p. 1-5 ISSN: 2394-658X

2015 [3] KHADSE, N.A., ZAWERI, S.R.: Modal Analysis of Aircraft Wing using Ansys Workbench Software Package In: International Journal of Engineering Research Technology Vol. 4, no. 7 (2015), p. 225-230 ISSN: 2278-0181

2015 [3] ROS, N.F., SAAD, M., DARUS, Z.: Dynamic Modeling and Active Vibration Control of a Flexible Beam: A Review In: International Journal of Engineering Technology Vol. 15, no. 5 (2015), p. 12-17 ISSN:

2077-1185

2016 [3] DASH, A.: Free Vibration Analysis of F3S.20S Aluminium Composite Material Through Ansys APDL In: Experimental mechanics Vol. 5, no. 2 (2016), p. 123-128 ISSN: 2394-0921

2017 [1] ARUNKUMAR, S., BASKARALAL, V.P.M., MUTHURAMAN, V.: Comparative Investigation on Modal analysis of LM25 Aluminium alloy with other Aluminim alloys using Finite element analysis software In: IOP Conference Series : Materials Science and Engineering Vol. 183 (2017), p. 1-10 ISSN: 1757-8981
WOS / SCOPUS

2017 [1] NASTASE, E.V.: Influence of the material used to build the blades of a wind turbine on their starting conditions In: MATEC Web of Conferences : IManE and E 2017 : 21st Innovative Manufacturing Engineering and Energy International Conference : Iasi, 24-27 May, 2017 P. 1-6 ISSN: 2261-236X
SCOPUS

2019 [3] DEMIRTAS, A., BAYRAKTAR, M.: Free vibration analysis of an aircraft wing by considering as a cantilever beam In: Selcuk University Journal of Engineering, Science and Technology Vol. 7, no. 1 (2019), p. 12-21 ISSN: 2147-9364

ADE002 HAGARA, M., SCHRÖTTER, M.: The printed patterns investigation for the purposes of deformation analysis performed by digital image correlation system / - 2013.In: American Journal of Mechanical Engineering. Vol. 1, no. 7 (2013), p. 185-189. - ISSN 2328-4102

[archívne číslo 141887]

Ohlasy:

2015 [3] ŠTAMBORSKÁ, M. et al.: Application of DIC method for assessment of tensile deformation of medium carbon steel In: MTSM2015 : 5th International conference Mechanical Technologies and Structural Materials 2015 : September, 24th-25th, 2015, Split P. 161-166 ISSN: 1847-7917

ADE004 HAGARA, M., HUŇADY, R., LENGVARSKÝ, P.: A determination of the kinematic quantities of a rotating object by digital image correlation method / - 2013.In: American Journal of Mechanical Engineering. Vol. 1, no. 7 (2013), p. 289-292. - ISSN 2328-4102

[archívne číslo 141895]

Ohlasy:

2016 [1] KUŽMA, D. et al.: The Use of CAX Systems as a Tool for Modeling Construction Element in the Aviation Industry In: Naše more Vol. 63, no. 3 (2016), p. 134-139 ISSN: 0469-6255 **WOS / SCOPUS**

ADE005 LENGVARSKÝ, P., HAGARA, M., SCHRÖTTER, M., BOCKO, J.: Modal Analysis of Axially Symmetric Structure / - 2014.In: American Journal of Mechanical Engineering. Vol. 2, no. 7 (2014), p. 265-269. - ISSN 2328-4110

[archívne číslo 154612]

Ohlasy:

2016 [3] DASH, A. et al.: Free Vibration Analysis of F3S.20S Aluminium Composite Material Through Ansys APDL In: Global Journal of Advanced Engineering Technologies Vol. 5, no. 2 (2016), p. 123-128 ISSN: 2394-0921

ADE006 HAGARA, M., HUŇADY, R., LENGVARSKÝ, P., BOCKO, J.: Numerical verification of a full-field deformation analysis of a specimen loaded by combined loading / - 2014.In: American Journal of Mechanical Engineering. Vol. 2, no. 7 (2014), p. 307-311. - ISSN 2328-4102

[archívne číslo 154636]

Ohlasy:

2017 [3] TURON, B., ZIAJA, D., MILLER, B.: Wykrywanie uszkodzeń węzłów ramy stalowej z wykorzystaniem metody cyfrowej korelacji obrazu In: Czasopismo Inżynierii Łądowej, Środowiska i Architektury Vol. 64, no. 2 (2017), p. 185-198 ISSN: 2300-5130

2017 [3] TURON, B., ZIAJA, D., MILLER, B.: Rejestracja i analiza pól przemieszczeń i odkształceń za pomocą systemu cyfrowej korelacji obrazu 3D In: Czasopismo Inżynierii Łądowej, Środowiska i Architektury Vol. 64, no. 4 (2017), p. 7-28 ISSN: 2300-5130

2018 [1] TURON, B. et al.: DIC in validation of boundary conditions of numerical model of reinforced concrete beams under torsion In: Archives of Civil Engineering Vol. 64, no. 4 (2018) ISSN: 2300-3103
WOS / SCOPUS

2019 [1] GORSZCZYK, J., MALICKI, K., ZYCH, T.: Application of digital image correlation (DIC) method for road material testing In: Materials Vol. 12, no. 15 (2019), art. no. 2349 ISSN: 1996-1944 **WOS / SCOPUS**

ADE007 HUŇADY, R., HAGARA, M., TREBUŇA, F.: The measurement of standing wave patterns by using high-speed digital image correlation / - 2014. In: American Journal of Mechanical Engineering. Vol. 2, no. 7 (2014), p. 247-251. - ISSN 2328-4102

[archívne číslo 154642]

Ohlasy:

2015 [3] TAHIR, M.F.M., WALSH, S.J., O'BOY, D.J.: Evaluation of the Digital Image Correlation method for the measurement of vibration mode shapes In: Internoise 2015 : 44th International Congress and Exposition on Noise Control Engineering : San Francisco, 9-12 August 2015 P. 1986-1995 ISSN: 0736-2935

2017 [1] COLLA, C., GABRIELLI, E.: Photoelasticity and DIC as optical techniques for monitoring masonry specimens under mechanical loads In: Journal of Physics Conference Series : Vol. 778 : 23. Aivela Annual Meeting 2015 : November 12-13, 2015, Perugia, Italy P. 1-13 ISSN: 1742-6588 **WOS / SCOPUS**

2018 [3] KUMAR, J. et al.: Experimental technique and precautions for measurement of standing wave patterns inside the rectangular waveguide In: VEDA 2018 : National Symposium on Vacuum Electronic Devices and Applicatins : Guwahati, 22-24 November, 2018 P. 1-3

2018 [1] JAILIN, C.: Full field modal measurement with a single standard camera In: Optics and Lasers in Engineering Vol. 107, p. 265-272 ISSN: 0143-8166 **WOS / SCOPUS**

ADE013 LENGVARSKÝ, P., BOCKO, J., HAGARA, M.: The Buckling Analysis of the Composite Plates with Different Orientations of Layers / - 2016. In: American Journal of Mechanical Engineering. Vol. 4, no. 7 (2016), p. 413-417. - ISSN 2328-4102

[archívne číslo 176486]

Ohlasy:

2018 [1] FEDDAL, I., KHAMLICH, A., AMEZIANE, K.: Effects of plies orientations and initial geometric imperfections on buckling strength of a composite stiffened panel In: MATEC Web of Conferences : NDECS 2017 : 1st International Conference on Non-Destructive Evaluation of Composite Structures : Tetouan, 25 November, 2017 Vol. 191 (2018), p. 1-4 ISSN: 2261-236X **SCOPUS**

2020 [1] SERNA MORENO, M.C., HORTA MUÑOZ, S.: Elastic stability in biaxial testing with cruciform specimens subjected to compressive loading In: Composite Structures Vol. 234 (2020), art. no. 111697 ISSN: 0263-8223 **SCOPUS**

ADE019 HAGARA, M., HUŇADY, R., TREBUŇA, F., PAVELKA, P.: The analyses of large displacement pendulum movement using high-speed digital image correlation and matlabsimulink / - 2016.In: American Journal of Mechanical Engineering. Vol. 4, no. 7 (2016), p. 406-412. - ISSN 2328-4102

[archívne číslo 176568]

Ohlasy:

2016 [3] PATIL, K. et al.: Extracting vibration characteristics of a guitar using finite element, modal analysis, and digital image correlation techniques In: Proceedings of Meetings on Acoustics : 172nd Meeting of the Acoustical Society of America Honolulu, 28 November -2 December, 2016 Vol. 29, no. 1 (2016), p. 1-8 ISSN: 1939-800X

2018 [1] PATIL, K., SRIVASTAVA, V., BAQERSAD, J.: A multi-view optical technique to obtain mode shapes of structures In: Measurement Vol. 122 (2018), p. 358-367 ISSN: 0263-2241 **WOS / SCOPUS**

ADE021 HAGARA, M., PÁSTOR, M.: Full-field Stress Analysis of a Crane Hook Model Performed by Finite Element Analysis and Digital Image Correlation Method / - 2017.In: American Journal of Mechanical Engineering. Vol. 5, no. 6 (2017), p. 293-297. - ISSN 2328-4110

[archívne číslo 187938]

Ohlasy:

2018 [1] MITROVIC, N., PETROVIC, A., MILOSEVIC, M.: Strain measurement of pressure equipment components using 3D Digital Image Correlation method In: Procedia Structural Integrity : ECF22 - Loading and Environmental effects on Structural Integrity Vol. 13, p. 1605-1608 ISSN: 2452-3216 **WOS / SCOPUS**

ADF - Vedecké práce v domácich nekarentovaných časopisoch

ADF005 TREBUŇA, F., ŠIMČÁK, F., TREBUŇA, P., BOBOVSKÝ, Z., PÁSTOR, M., ŠARGA, P., FRANKOVSKÝ, P., HAGARA, M.: Methodology for experimental verification of safety of packages for transport of spent nuclear fuel / - 2012.In: Acta Mechanica Slovaca. Roč. 16, č. 3 (2012), s. 34-41. - ISSN 1335-2393

[archívne číslo 134122]

Ohlasy:

2014 [1] JEZŇÝ, J.: Kinematic model of nonholonomic mobile robots In: Applied Mechanics and Materials Vol. 611 (2014), p. 107-114 ISSN: 1660-9336 **SCOPUS**

ADF007 HAGARA, M., HUŇADY, R., TREBUŇA, F.: Stress Analysis Performed in the Near Surrounding of Small Hole by a Digital Image Correlation Method / - 2014.In: Acta Mechanica Slovaca. Roč. 18, č. 3-4 (2014), s. 74-81. - ISSN 1335-2393

[archívne číslo 159161]

Ohlasy:

2018 [1] TAN, W. et al.: Experiment study on fluidelastic instability of tube bundles consisting of different frequency tubes with visual image processing system In: Journal of Pressure Vessel Technology - Transaction of the ASME Vol. 140, no. 3 (2018), art. no. 031302 ISSN: 0094-9930 **WOS / SCOPUS**

2018 [1] LIU, L. et al.: The fluid elastic instability of concentric arrays of tube bundles subjected on cross flow In: ASME 2018 : Pressure Vessels and Piping Conference : Prague, 15-20 July, 2018 S. I. : American Society of Mechanical Engineers, 2018 ISBN: 978-0-7918-5165-4 [WOS / SCOPUS](#)

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADM001 TREBUŇA, F., HUŇADY, R., BOBOVSKÝ, Z., HAGARA, M.: Results and experiences from the application of digital image correlation in operational modal analysis / - 2013.In: Acta Polytechnica Hungarica. Vol. 10, no. 5 (2013), p. 159-174. - ISSN 1785-8860

[archívne číslo 140123]

Ohlasy:

2016 [1] WARBURTON, J.R. et al.: Digital Image Correlation Vibrometry with Low Speed Equipment In: Experimental Mechanics DOI: 10.1007/s11340-016-0162-1 (2016), p. 1-12 ISSN: 0014-4851 [WOS / SCOPUS](#)

2017 [3] TUROŇ, B., ZIAJA, D., MILLER, B.: Wykrywanie uszkodzeń węzłów ramy stalowej z wykorzystaniem metody cyfrowej korelacji obrazu In: Journal of Civil Engineering, Environment and Architecture Vol. 64, no. 2 (2017), p. 183-196 ISSN: 2300-5130

2017 [3] TUROŇ, B., ZIAJA, D., MILLER, B.: Rejestracja i analiza pól przemieszczeń i odkształceń za pomocą systemu cyfrowej korelacji obrazu 3D In: Czasopismo Inżynierii Łądowej, Środowiska i Architektury Vol. 64, no. 4 (2017), p. 7-28 ISSN: 2300-5130

2018 [1] TURON, B. et al.: DIC in validation of boundary conditions of numerical model of reinforced concrete beams under torsion In: Archives of Civil Engineering Vol. 64, no. 4 (2018) ISSN: 2300-3103 [WOS / SCOPUS](#)

2019 [1] GORSZCZYK, J., MALICKI, K., ZYCH, T.: Application of digital image correlation (DIC) method for road material testing In: Materials Vol. 12, no. 15 (2019), art. no. 2349 ISSN: 1996-1944 [WOS / SCOPUS](#)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC001 HAGARA, M., TREBUŇA, F., HUŇADY, R.: Modal analysis of the manipulator arm on the mobile chassis / - 2014.In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 472-477. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[archívne číslo 149747]

Ohlasy:

2015 [1] KLIMENDA, F. et al.: Investigation of Vertical Vibration of a Vehicle Model Driving Through a Horizontal Curve In: Manufacturing Technology Vol. 15, no. 2 (2015), p. 143-148 ISSN: 1213-2489 [SCOPUS](#)

2017 [1] LI, J.-X. et al.: Substation tire-track combined mobile robot In: OECT 2017 : International Conference on Optics, Electronics and Communications Technology : Beijing, 15-16 September, 2017 P. 168-173 ISBN: 978-1-60595-496-7 [WOS](#)

AEC002 HUŇADY, R., HAGARA, M., ŠIMČÁK, F.: The influence of facet size on the accuracy of modal parameters determined by Digital Image Correlation technique / - 2014.In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 496-500. - ISSN 1660-9336

[archívne číslo 149748]

Ohlasy:

2016 [1] GALANDA, J., ŠULEJ, R., JEZŇÝ, M.: Virtual Concept of a Symbiotic Environment for CBL and CBT Methods Based Education in Aircraft System In: Nase more Vol. 63, no. 3 (2016), p. 244-248 ISSN: 0469-6255 [WOS](#) / [SCOPUS](#)

2016 [1] KUŽMA, D. et al.: The Use of CAX Systems as a Tool for Modeling Construction Element in the Aviation Industry In: Nase more Vol. 63, no. 3 (2016), p. 134-139 ISSN: 0469-6255 [WOS](#) / [SCOPUS](#)

2018 [1] TAN, W. et al.: Experiment study on fluidelastic instability of tube bundles consisting of different frequency tubes with visual image processing system In: Journal of Pressure Vessel Technology - Transactions of the ASME Vol. 140, no. 3, art. no. 031302 ISSN: 0094-9930 [WOS](#) / [SCOPUS](#)

AEC004 HAGARA, M., SCHRÖTTER, M., LENGVARSKÝ, P.: An investigation of the temperature influence on a shift of natural frequencies using digital image correlation / - 2014.In: Applied Mechanics and Materials. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 506-510. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[archívne číslo 149754]

Ohlasy:

2015 [1] SVOBODA, M. et al.: Effect of Impacts on Human Head In: Manufacturing Technology Vol. 15, no. 2 (2015), p. 226-231 ISSN: 1213-2489 [SCOPUS](#)

2015 [1] KLIMENDA, F. et al.: Investigation of Vertical Vibration of a Vehicle Model Driving Through a Horizontal Curve In: Manufacturing Technology Vol. 15, no. 2 (2015), p. 143-148 ISSN: 1213-2489 [SCOPUS](#)

2016 [1] SVOBODA, M. et al.: Force effect of strike and the possibility of causing a skull fracture of a human head In: Springer Proceedings in Mathematics and Statistics : 13th International Conference on Dynamical Systems : Łódź, 7-10 December, 2016 Vol. 181 (2016), p. 353-360 ISSN: 2194-1009 [WOS](#) / [SCOPUS](#)

2017 [1] HEJMA, P. et al.: Analytic analysis of a cam mechanism In: Procedia Engineering Volume 177 : 21. International Polish–Slovak Conference "Machine Modeling and Simulations 2016 : Hucisko, September 6-8, 2016 P. 3-10 ISBN: 1877-7058 [WOS](#) / [SCOPUS](#)

AEC005 SCHRÖTTER, M., HAGARA, M., KALINA, M.: The analysis of different stochastic patterns during loading in plastic area using DIC method / - 2014.In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 490-495. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[archívne číslo 149757]

Ohlasy:

2015 [3] ŠTAMBORSKÁ, M. et al.: Application of DIC method for assessment of tensile deformation of medium carbon steel In: MTSM2015 : 5th International conference Mechanical Technologies and Structural Materials : conference proceedings : Croatia, Hrvatska, 24-25 september 2015 P. 161-166 ISSN: 1847-7917

2016 [3] ŠTAMBORSKÁ, M., LAPIN, J., BAJANA, O.: Effect of annealing in argon and hydrogen on tensile deformation behavior of ferritic-pearlitic steel In: MTSM 2016 : International conference Mechanical Technologies and Structural Materials : Split, 22-23 September, 2016 P. 145-151 ISSN: 1847-7917

AFC - Publikované príspevky na zahraničných vedeckých konferenciách

AFC006 HAGARA, M., ŠIMČÁK, F., KALINA, M.: The knowledge acquired by using of optical methods by strain fields investigation / - 2014.In: Applied Mechanics and Materials : EAN 2013 : 51st Annual of the International Scientific Conference on Experimental Stress Analysis : Litomerice, Czech Republic, 11-13 June 2013. Vol. 486 (2013), p. 141-146. - ISBN 978-303785977-3 - ISSN 1660-9336

[archívne číslo 142431]

Ohlasy:

2016 [1] LOSERTOVIÁ, M. et al.: Comparison of Deformation Behavior of 316L Stainless Steel and Ti6Al4V Alloy Applied in Traumatology In: Metalurgija Vol. 55, no. 4 (2016), p. 667-670 ISSN: 0543-5846
[WOS / SCOPUS](#)

AFC012 PRADA, E., VALÁŠEK, M., VIRGALA, I., GMITERKO, A., KELEMEN, M., HAGARA, M., LIPTÁK, T.: New approach of fixation possibilities investigation for snake robot in the pipe / - 2015.In: IEEE ICMA 2015. - Danvers : IEEE, 2015 P. 1204-1210. - ISBN 978-1-4799-7096-4

[archívne číslo 164472]

Ohlasy:

2017 [1] MILLS, G.H., JACKSON, A.E., RICHARDSON, R.C.: Advances in the Inspection of Unpiggable Pipelines In: Robotics Vol. 6, no. 4 (2017), p. 1-13 ISSN: 2218-6581 [WOS / SCOPUS](#)

2018 [1] LI, Te et al.: Rapid design of a screw drive in-pipe robot based on parameterized simulation technology In: Simulation DOI: 10.1177/0037549718799881 ISSN: 0037-5497 [WOS / SCOPUS](#)

AFD - Publikované príspevky na domácich vedeckých konferenciách

AFD005 ŠIMČÁK, F., ŠTAMBORSKÁ, M., HAGARA, M.: Using of digital image correlation for strain analysis in areas of stress concentration / - 2011. - 1 elektronický optický disk (CD-ROM).In: MMaMS 2011 : Modelling of Mechanical and Mechatronics Systems : proceedings of the 4th international conference : Herľany, Slovakia, 20. - 22. 9. 2011. - Košice : TU, 2011 S. 460-466. - ISBN 978-80-553-0731-2

[archívne číslo 114528]

Ohlasy:

2014 [3] FERNÁNDEZ, J.Á.P., COPPIETERS, S., FAZIO, E.A.: Measuring Strain Concentrations in Welded Junctions using Digital Image Correlation In: YPIC 2014 : Young welding Professionals International Conference : Budapest, 17th-20th September 2014 P. 17-21

AFD008 SCHRÖTTER, M., TREBUŇA, F., HAGARA, M., KALINA, M.: Methodology for Experimental Analysis of Pipeline System Vibration / - 2012.In: Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012 : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol. 48 (2012), p. 613-620. - ISSN 1877-7058

[archívne číslo 127275]

Ohlasy:

2015 [1] ZHENG, L. et al.: Vibration cause analysis and elimination of reciprocating compressor inlet pipelines In: Engineering Failure Analysis Vol. 48, no. 2 (2015), p. 272-282 ISSN: 1350-6307 **WOS / SCOPUS**

2015 [3] HE, D., LI, Y.: Finite Element Analysis of Pipeline Vibration for Reciprocating Compressors In: Noise and Vibration Control Vol. 35, no. 6 (2015), p. 207-210 ISSN: 1006-1355

2015 [1] AL GHAILANI, L., EL-SINAWI, A., AL QUBAISI, A.: Experimental study of the effect of Q and R on linear quadratic estimator performance in estimating pipeline dynamics In: ICSPC 2015: IEEE Conference on Systems : Process and Control : 18-20 December, Bandar Sunway, Malaysia, 2015 P. 7-11 ISBN: 978-1-4673-7656-3 **SCOPUS**

2017 [1] DONG, C. et al.: Self-powered event-triggered wireless sensor network for monitoring sabotage activities In: SENSORS 2016 : 15th IEEE Sensor Conference : Orlando, 30 October - 2 November, 2016 ISBN: 978-147998287-5 **WOS / SCOPUS**

2017 [1] XU, D. et al.: A high-efficiency self-powered wireless sensor node for monitoring concerning vibratory events In: Smart Materials and Structures Vol.26, no. 9 (2017), art. no. 095038 ISSN: 0964-1726 **WOS / SCOPUS**

2017 [1] AL GHAILANI, L., EL-SINAWI, A.: Relating structural damage to modal frequencies shift using low cost LQG-FEA approach and minimal feedback measurements In: Journal of Vibroengineering Vol. 19, no.7 (2017), p. 5020-5035 ISSN: 1392-8716 **WOS / SCOPUS**

2019 [1] FLEGNER, Patrik et al. Processing a measured vibroacoustic signal for rock type recognition in rotary drilling technology In: Measurement Vol. 134 (2019), p. 451-467 ISSN: 0263-2241 **WOS / SCOPUS**

2019 [1] ZAHID, Umer et al. A methodology for flexibility analysis of pipeline systems In: Proceedings of the Institution of Mechanical Engineers: Part E: Journal of Process Mechanical Engineering Vol. 233, no. 4 (2019), p. 893-907 ISSN: 0954-4089 **WOS / SCOPUS**

2019 [1] FLEGNER, Patrik et al. Evaluating noise sources in a working environment when disintegrating rocks by rotary drilling In: Polish Journal of Environmental Studies Vol. 28, no. 5 (2019), p. 3711-3720 ISSN: 1230-1485 **WOS / SCOPUS**

2019 [1] GAO, Y., SUN, W.: Inverse identification of the mechanical parameters of a pipeline hoop and analysis of the effect of preload In: Frontiers of Mechanical Engineering Vol. 14, no. 3 (2019), p. 358-368 ISSN: 2095-0233 **WOS / SCOPUS**

AFD009 HAGARA, M., TREBUŇA, F., HUŇADY, R., KALINA, M., SCHRÖTTER, M.: Experimental Identification of Modal Parameters of Thin Metal Sheets by using of DIC / - 2012. In: Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012 : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol.48 (2012), p. 180-188. - ISSN 1877-7058

[archívne číslo 127276]

Ohlasy:

2017 [1] BAQERSAD, J. et al.: Photogrammetry and optical methods in structural dynamics – A review In: Mechanical Systems and Signal Processing Vol. 86, part: B special no. SI (2017), p. 17-34 ISSN: 0888-3270 **WOS / SCOPUS**

2017 [1] SCHAEFFER, M., TRAINITI, G., RUZZENE, M.: Optical Measurement of In-plane Waves in Mechanical Metamaterials Through Digital Image Correlation In: Scientific Reports Vol. 7, article no. 42437 (2017) ISSN: 2045-2322 [WOS / SCOPUS](#)

2019 [1] LOPEZ-ALBA, E. et al.: The use of charge-coupled device cameras for characterizing the mean deflected shape of an aerospace panel during broadband excitation In: The Journal of Strain Analysis for Engineering Design Vol. 54, no. 1 (2019), p. 13-23 ISSN: 0309-3247 [WOS / SCOPUS](#)

2019 [1] HU, Yujia et al.: Local damage detection of membranes based on Bayesian operational modal analysis and three-dimensional digital image correlation In: Mechanical Systems and Signal Processing Vol. 131 (2019), p. 633-648 ISSN: 0888-3270 [WOS / SCOPUS](#)

AFD010 HUŇADY, R., HAGARA, M., SCHRÖTTER, M.: Using High-speed Digital Image Correlation to Determine the Damping Ratio / - 2012.In: Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012 : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol. 48 (2012), p. 242-249. - ISSN 1877-7058

[archívne číslo 127291]

Ohlasy:

2015 [1] SVOBODA, M. et al.: Effect of Impacts on Human Head In: Manufacturing Technology Vol. 15, no. 2 (2015), p. 226-231 ISSN: 1213-2489 [SCOPUS](#)

2018 [1] LA ROSA, G. et al.: Low-cycle fatigue hysteresis by thermographic and digital image correlation methodologies: a first approach In: Procedia Structural Integrity : ECF22 - Loading and Environmental effects on Structural Integrity Vol. 13, p. 1583-1588 ISSN: 2452-3216 [WOS / SCOPUS](#)

2019 [1] SONY, S., LAVENTURE, S., SADHU, A.: A literature review of next-generation smart sensing technology in structural health monitoring In: Structural Control and Health Monitoring Vol. 36, no. 3 (2019), article no. e2321 ISSN: 1545-2255 [WOS / SCOPUS](#)

AFD011 KALINA, M., ŠIMČÁK, F., HAGARA, M., SCHRÖTTER, M., ŠTAMBORSKÁ, M.: The use of the experimental optical technique for investigation of shear strains of the samples exposed to shear stress beyond the yield point / - 2012.In: Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012 : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol. 48 (2012), p. 264-272. - ISSN 1877-7058

[archívne číslo 127635]

Ohlasy:

2016 [1] RODRIGUES, R.O. et al.: Wall expansion assessment of an intracranial aneurysm model by a 3D Digital Image Correlation System In: Measurement: Journal of the International Measurement Confederation Vol. 88 (2016), p. 262-270 ISSN: 0263-2241 [WOS / SCOPUS](#)

AFD012 HAGARA, M., HUŇADY, R.: Q-STRESS v.1.0 – a Tool for Determination of Stress Fields using Digital Image Correlation Systems / - 2014.In: Procedia Engineering : Modelling of Mechanical and Mechatronic Systems MMaMS 2014 : 25th-27th November 2014, High Tatras, Slovakia. Vol. 96 (2014), p. 136-142. - ISSN 1877-7058

[archívne číslo 154647]

Ohlasy:

2018 [1] MITROVIC, N., PETROVIC, A., MILOSEVIC, M.: Strain measurement of pressure equipment components using 3D Digital Image Correlation method In: Procedia Structural Integrity : ECF22 - Loading and Environmental effects on Structural Integrity Vol. 13, p. 1605-1608 ISSN: 2452-3216 **WOS / SCOPUS**

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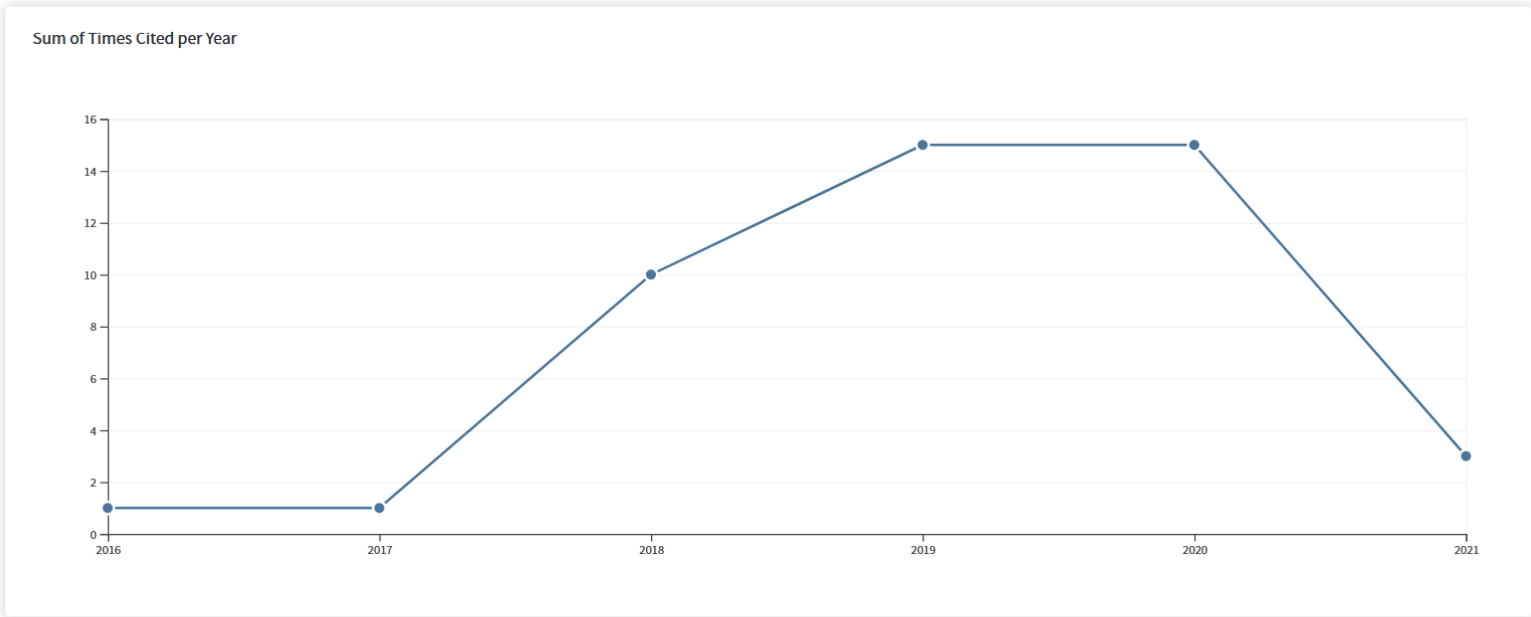
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By: Hagara, Martin; Trebuna, Frantisek; Pastor, Miroslav; et al.
MEASUREMENT Volume: 137 Pages: 238-256 Published: APR 2019
- 3. **New Approach of Fixation Possibilities Investigation for Snake Robot in the Pipe**
By: Prada, Erik; Valasek, Michael; Virgala, Ivan; et al.
Conference: IEEE International Conference on Mechatronics & Automation Location: Beijing, PEOPLES R CHINA Date: AUG 02-05, 2015
Sponsor(s): Beijing Inst Tech; Tianjian Univ Technol; HIT; Robot Soc Japan; JSME; SICE; UEC; CAA; Chinese Mech Engn Soc; CIE Life Elect Soc
2015 IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS AND AUTOMATION Pages: 1204-1210 Published: 2015
- 4. **Investigation of Snake Robot Locomotion Possibilities in a Pipe**
By: Virgala, Ivan; Kelemen, Michal; Bozek, Pavol; et al.
SYMMETRY-BASEL Volume: 12 Issue: 6 Article Number: 939 Published: JUN 2020

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3	0	0	3	5	2	10	3.33
4	0	0	2	1	0	3	0.43
	0	0	0	1	0	1	0.50

<input type="checkbox"/>	5.	Set-up of the standard 2D-DIC system for quantification of residual stresses By: Hagara, Martin; Pastor, Miroslav; Delyova, Ingrid Conference: 57th International Scientific Conference on Experimental Stress Analysis (EAN) Location: Luhacovice, CZECH REPUBLIC Date: JUN 03-06, 2019 EXPERIMENTAL STRESS ANALYSIS (EAN 2019) Pages: 106-114 Published: 2019	0	0	0	0	0	1	1	0.33
<input type="checkbox"/>	6.	The knowledge acquired by using of optical methods by strain fields investigation By: Hagara, Martin; Simcak, Frantisek; Kalina, Matus Conference: 51st International Scientific Conference on Experimental Stress Analysis (EAN 2013) Location: Litomerice, CZECH REPUBLIC Date: JUN 11-13, 2013 Sponsor(s): JE Purkyne Univ, Fac Prod Technol & Management; Poznan Univ Technol, Fac Mech Engn & Management; Univ Pecs, Pollack Mihaly Fac Engn & Informat Technol; Slovak Univ Technol, Fac Mech Engn EXPERIMENTAL STRESS ANALYSIS 51 Book Series: Applied Mechanics and Materials Volume: 486 Pages: 141 -+ Published: 2014	0	0	0	0	0	0	1	0.13
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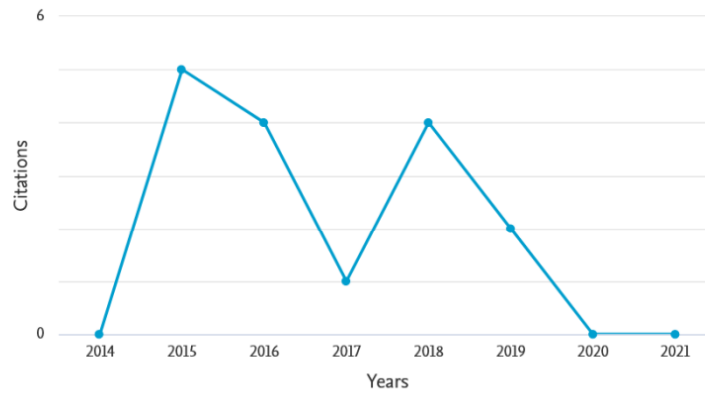
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