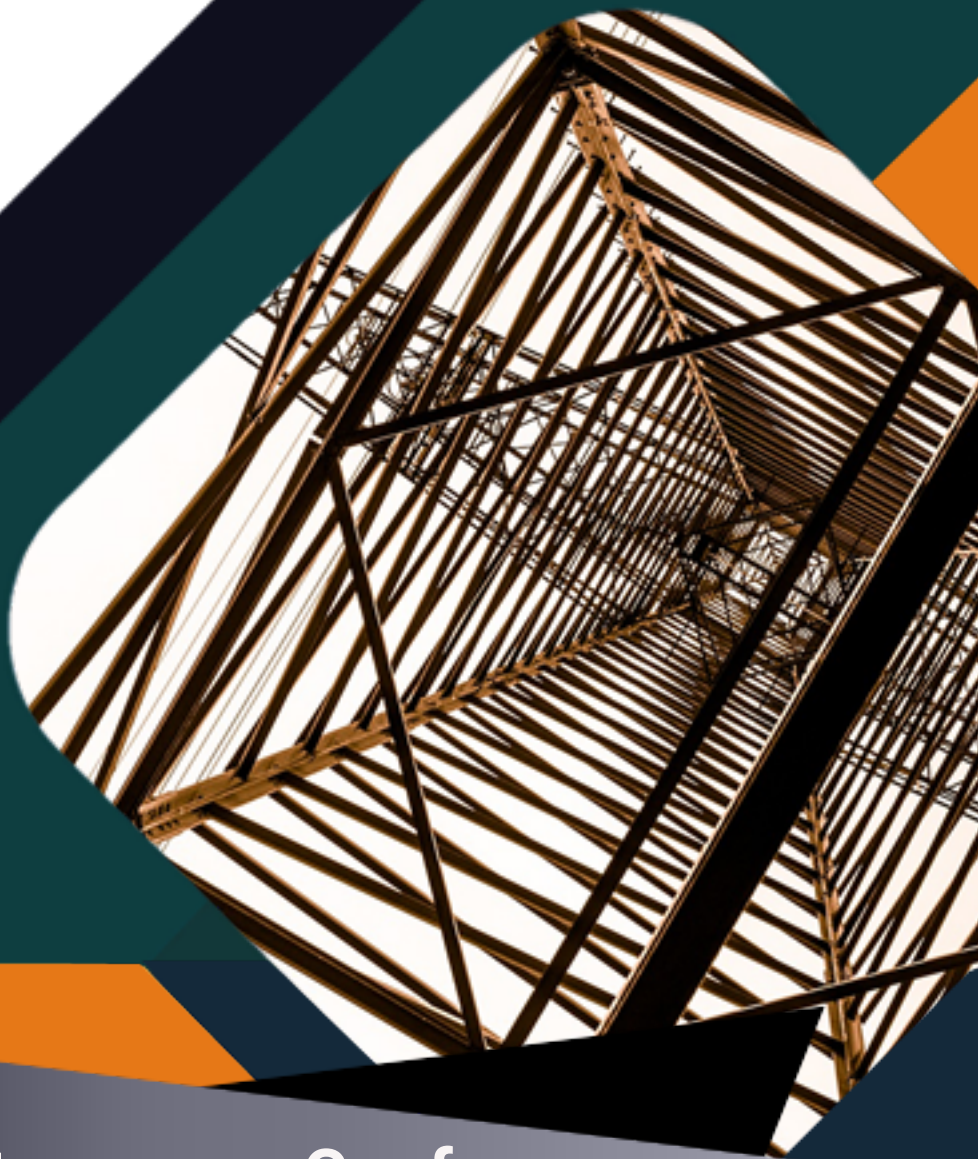
IGF Video recordings

ISBN: 978-88-31482-15-8



2nd Mediterranean Conference on Fracture and Structural Integrity, MedFract2

ESIS
European Structural Integrity Society

2nd Mediterranean Conference on Fracture and Structural Integrity, MedFract2

February 14-16, 2022, Catania (Italy) & Web

Algerian Group of Fracture Mechanics and Energy (AGFME), *Greek Society of Experimental Mechanics of Materials* (GSEMM), *Italian Group of Fracture* (IGF) and *Sociedad Espanola de Integridad Estructural - Grupo Espanol de Fractura* (SEIE-GEF) organized the 2nd Mediterranean Conference on Fracture and Structural Integrity, MedFract2.

Organizing Committee

- Filippo Berto, Norwegian University of Science and Technology (Norway)
- Vittorio Di Cocco, Università di Cassino e del Lazio Meridionale (Italy)
- Francisco Galvez, Universidad Politécnica de Madrid (Spain)
- Stavros Kourkoulis, National Technical University of Athens (Greece)
- Francesco Iacoviello, Università di Cassino e del Lazio Meridionale (Italy)
- Mohammed Hadj Meliani, Université Hassiba benbouali de Chlef (Algeria)

VIDEO-PRESENTATIONS

Presentation title	Authors	DOI
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	Andrew Premchander, Islam Amin, Selda Oterkus, Erkan Oterkus, Nabil Ahmed Shawky Elminshawy	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.1
A novel methodology for fatigue assessment of Ductile Cast Iron (DCI) with solidification defects	Daniela Scorza, Camilla Ronchei, Sabrina Vantadori, Andrea Zanichelli, Andrea Carpinteri	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.2
Analysis of operational factors affecting the serviceability of seaport hoisting and transporting equipment	Hryhoriy Nykyforchyn, Vitaliy Pustovyi, Olha Zvirko, Pavlo Semenov, Myroslava Hredil, Oleksiy Nemchuk, Oleksandr Oliynyk, Oleksandr Tsyrulnyk	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.3
Crack path estimation in the shot-earth 772 by a discrete element method	Angélica Colpo, Sabrina Vantadori,Leandro Friedrich, Andrea Zanichelli, Vittorio Di Cocco, Francesco Iacoviello, Ignacio Iturrioz	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.4
Discrete Element Method And Finite Element Method Combination Applied In The Simulation Of Zinc-Based Coatings	Leandro F Friedrich, Angelica B Colpo, Sabrina Vantadori,Andrea Zanichelli, Vittorio Di Cocco, Francesco Iacoviello, Ignacio Iturrioz.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.5
Effect of service temperature on tensile and fracture properties of additively manufactured Ti-6Al-4V alloy	Yingmeng.Xiao,Guian.Qian,Jingyu.Sun,Filippo.Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.6
Electrical Resistance measurements for fatigue	Andrea Saponaro, Riccardo Nobile	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.7

Presentation title	Authors	DOI
damage prediction of AISI 316L stainless steel		
Flexural and fracture behaviour of a cement-based material reinforced with GO nanoplates	Camilla Ronchei, Sabrina Vantadori, Daniela Scorza, Andrea Zanichelli, Giacomo Magnani, Daniele Pontiroli, Mauro Riccò, Michele Sidoli	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.8
Mechanical strength of 3D-printed open-hole polymer plates	Mohammad Reza Khosravani, Tamara Reinicke	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.9
Temperature dependence of ZnSe:Te scintillator	Dionysios Linardatos, Dafni Revi, Vasileios Ntoupis, Nektarios Kalyvas, Konstantinos Ninos, Athanasios Bakas, Eleftherios Lavdas, Ioannis Kandarakis, George Fountos, Ioannis Valais and Christos Michail	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.10
Very-high-cycle fatigue properties of stainless steel for compressor valve plates	Song Wei, Ruicheng Gu, Xu Jia, Yang Ou Xiang, Hu Yuan Pei	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.11
Simulation of crack growth in residual stress fields of pré-fatigued T-welded joints repaired by tungsten inert gas: a 3D approach	Armando L. Ramalho, Fernando V. Antunes, José A. M. Ferreira	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.12
Numerical, Mechanical, and Metallurgical analyses of an innovative lightweight titanium conrod additively manufactured	Silvia Cecchel,Seyed Mohammad Javad Razavi, Francesco Mega, Giovanna Cornacchia, Andrea Avanzini, Davide Battini, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.13
Predicting crack initiation in panel paintings with machine learning	America Califano, Pietro Foti, Filippo Berto, Marco Baiesi, Chiara Bertolin	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.14

Presentation title	Authors	DOI
The Effect of Induction Heating Stress Remedies on piping reliability	Chouaib Zeghida, Mohamed Amine Belyamna, Samira Tlili and Abdelmoumene Guedri	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.15
Piping reliability prediction using Monte Carlo simulation and artificial neural network	Mohamed Amine Belyamna, Chouaib Zeghida, Samira Tlili and Abdelmoumene Guedri	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.16
Inhomogeneous Beam Structures Of Rectangular Cross-Section Loaded In Torsion: A Delamination Study With Considering Creep	Victor Rizov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.17
Viscoelastic inhomogeneous beam subjected to mechanical loading and periodically varying temperature: a longitudinal fracture analysis	Victor Rizov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.18
Statically undetermined multilayered beam of non-linear viscoelastic behaviour: a delamination study	Victor Rizov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.19
Effects of static indeterminacy on the lengthwise fracture in non-linear viscoelastic inhomogeneous beams loaded in torsion	Victor Rizov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.20
Analysis of longitudinal fracture in a non-linear viscoelastic beam under strains changing smoothly with time	Victor Rizov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.21
Cold bonding aluminium in a Focused Ion Beam microscope: development and qualitative in-situ assessment of the microscale technique	Ambra Celotto, Øystein Grong, Randi Holmestad, Jorgen Sørhaug, Jan Torgersen, Per Erik Vullum, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.22
Hot Ductility Analysis and Flow Stress Prediction of (C-Mn-S-Al-Nb-V-Ti) Microalloyed Steel	Abdelhalim Allaoui, Abdelmoumene Guedri, Lamia Darsouni and Abderrazek Darsouni	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.23
Effect of graphene coating of carbon fibers on the fracture of uni-directional laminates	Alok K. Srivastava, Chandra S.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.24

Presentation title	Authors	DOI
	Yerramalli, Aparna Singh	
Fatigue behaviour of hybrid and bonded single lap joints made of composite material	R. Sepe, A. De Luca, E. Armentani, F. Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.25
Mechanical performance assessment of composite bars	Grzegorz Lesiuk, Szymon Duda, Paweł Stabla, Paweł Zielonka, Krzysztof Towarnicki, Paulina Mayer	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.26
In-plane fracture analysis of bi-material adhesively bonded joints by using a simple bend beam specimen	M.R.M. Aliha, H.G. Kucheki, S.M.J. Razavi, Hossein Parsania, Keyvan Ahmadi	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.27
High strain rate behavior of additively manufactured OFHC pure copper	E. Khademi, G. Testa	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.28
Hybrid structures in Titanium-Lattice/FRP: effect of skins material on bending characteristics	Costanzo Bellini, Rosario Borrelli, Francesco Di Caprio, Vittorio Di Cocco, Stefania Franchitti, Francesco Iacoviello, Larisa Patricia Mocanu, Luca Sorrentino	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.29
Fracture Simulation of Viscoelastic Membranes by Ordinary State-based Peridynamics	Murat Ozdemir, Selda Oterkus, Erkan Oterkus, Islam Amin, Abdel-Hameed Aassar, Hosam Shawky	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.30
Structural integrity - Historical aspects	Aleksandar Sedmak, Milos Kovic	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.31
Size effect in fatigue life of Mg alloy	Liviu Daniel Pîrvulescu, Anghel Vasile Cernescu, Carmen Opriş, Liviu Marşavina	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.32
Computational analysis of a sandwich beam with FGM face sheets under flexural loading	Efstathios E. Theotokoglou, Dimitrios A. Mallios	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.33

Presentation title	Authors	DOI
Fatigue lifetime of GFRP laminates in critical plane defined by equivalent normal stress	Karolina Głowacka, Tadeusz Łagoda	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.34
Influence of printing parameters on the eligibility of plane-strain fracture toughness results for PLA polymer	Aleksa Milovanović, Isaak Trajković, Zorana Golubović, Aleksandar Sedmak, Miloš Milošević	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.35
A comparison of a free and a vascularized semitendinosus tendon graft in Anterior Cruciate Ligament reconstruction. Preliminary results of a combined histologic and biomechanical study in a laboratory model	N. Vergados, M. Lenos, A. Mavrogenis, G. Babis, E.D. Pasiou, S.K. Kourkoulis, A. Papalois, V. Nikolaou	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.36
Comparative study of connectors of various shapes in restoration of monuments: Preliminary results about the mechanical behaviour of the interconnected structural elements	E.D. Pasiou, A. Loukidis, I. Stavrakas, D. Triantis, S.K. Kourkoulis	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.37
The mechanical investigation of filament-wound composite cylinders subjected to axial compression	Paweł Stabla, Grzegorz Lesiuk, Szymon Duda, Marek Lubecki, Michał Smolnicki, Wojciech Błażejewski, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.38
The improvement embankment seismic resistance by selecting suitable geogrid locations in the subsoil	Abdoullah Namdar and Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.39
The displacement simulation for cracked earth structure with different geometry	Abdoullah Namdar, Filippo Berto and Nurmunira Muhammad	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.40
Flexural analysis of GFRP/BFRP composite hybrid bars	Grzegorz Lesiuk, Paweł Stabla, Szymon Duda, Michał Smolnicki, Paweł Zielonka, Krzysztof Towarnicki, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.41

Presentation title	Authors	DOI
Towards a New Concept of Crack Path: A Tribute to James R. Rice	Jesús Toribio	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.42
A modified Paris Law approach to fatigue crack propagation in cold drawn pearlitic steel	Jesús Toribio, Beatriz González and Juan-Carlos Matos	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.43
Hydrogen embrittlement of pearlitic steel in the presence of cracks: a kinematic fracture criterion based on the crack tip strain rate	Jesús Toribio	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.44
Hydrogen embrittlement of pearlitic steel in the presence of notches: A kinematic fracture criterion based on the notch tip strain rate	Jesús Toribio	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.45
Fracture mechanics approach to hydrogen assisted microdamage in cracked samples of high-strength eutectoid pearlitic steel wires: Resembling Michelangelo Stone Sculpture Texture	Jesús Toribio	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.46
Study of different binders for restoration applications	Maria-Evangelia Stogia, Angeliki-Eirini Dimou, Stavros K. Kourkoulis and Nikolaos D. Alexopoulos	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.47
Correlation Between Mechanical Behaviour and Microstructural Features of AISI 316L Produced By Selective Laser Sintering	Danilo D'Andrea, Giacomo Risitano, Elpida Piperopoulos Dario Santonocito,	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.48
Modelling of delamination in rolling and sliding contacts	Irina Goryacheva, Almira Meshcheryakova	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.49
Effect of strain rate on the uni-axial stress-strain behavior of highly cross-linked epoxy resin	Kushal Mishra, Aparna Singh	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.50
Estimating Failure Mechanism of Steel Specimens using Stress-Corrosion-Cracking (SCC) Testing Methods: State and Development	Ericha Dwi Wahyu Syah Putri, Triyono Triyono, Aditya Rio Prabowo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.51
Numerical analysis of stiffened cylindrical shell subjected to external pressure	Ilham Widiyanto, Teguh Muttaqie, Aditya Rio Prabowo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.52

Presentation title	Authors	DOI
Numerical study of geometric variations on the performance of hull plate structures under blast loading	Muhammad Arif Husni Mubarok, Teguh Muttaqie, Aditya Rio Prabowo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.53
Evaluation of mechanical strength on graphite R4550 using ultrasound tensile testing	A.P. Pagnoncelli, A. Tridello, D.S. Paolino, L. Peroni	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.54
Computational Fluid Dynamics implementation to mitigate the LNG leakage consequences: A review of explosion accident calculation on LNG-Fueled ships	Haris Nubli, Aprianur Fajri, Aditya Rio Prabowo, Jung Min Sohn	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.55
An experimental and numerical framework for the assessment of fatigue performances of damaged Inconel 718	Valerio Carollo, Christopher Braithwaite, David Williamson, Pietro Villa	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.56
Finite element modeling investigations on a ductile cast iron EN-GJS-600-3 yield loci under biaxial stresses	M. Pedranz, T. Curtolo, V. Fontanari, D. Lusuardi, M. Benedetti	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.57
Root rotations and root displacements in bimaterial layers and thin films	Roberta Massabò, Konstantin Ustinov	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.58
Penny-shaped cracks: A comparison between FFM and CZM	P. Cornetti, A. Sapora	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.59
Adiabatic shear failure mechanism in AlMg alloys	Mikhail Sokovikov, Sergey Uvarov, Dmitry Ledon, Mikhail Simonov, Vladimir Oborin, Vasiliy Chudinov, and Oleg Naimark	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.60
Likelihood Ratio Confidence Intervals for the estimation of the design S-N curves	A. Tridello, C. Boursier Niutta, F. Berto, D.S. Paolino	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.61
Exploring the property space of lattice materials using bio-inspiration and machine learning	Marco Maurizi, Chao Gao, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.62
Automated Non-Destructive Integrity Assessment Of Steel Structures	Gabriella Bolzon	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.63
Crack micromechanisms in cycled shape memory alloy	C. Bellini, V. Di Cocco, F. Iacoviello, L.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.64

Presentation title	Authors	DOI
	Mocanu, S. Natali, R. Panetta	
Mechanical behavior of Material Extrusion Additive Manufactured components: an overview	Saveria Spiller, Filippo Berto, Seyed Mohammad Javad Razavi	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.65
Laser shot peening of the vanadium and titanium	Uvarov S. V., Balakhnin A. N., Vshivkov A. N. and Prokhorov A. E.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.66
Correlation of acoustic emissions and pressure stimulated currents in alfas-stone specimens under three-point bending. The role of the specimens' porosity: preliminary results	G. Agalianos, D. Tzagkarakis, A. Loukidis, E. D. Pasiou, D. Triantis, S. K. Kourkoulis and I. Stavrakas	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.67
Use of marble crushed sand in cementitious materials	Effrosyni Christodoulou, Maria Amenta, Zoi S. Metaxa, Dimitrios Papaevaggelou, Stavros K. Kourkoulis, Athanasios Ekmektsis, and Athanasios C. Mitropoulos	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.68
Eco-sustainable construction material: high consistency mortar with biochar additions	Devid Falliano, Luciana Restuccia, Giuseppe Andrea Ferro	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.69
A cohesive-based FE interface for concrete members retrofitted with ultra performance cementitious mortars	Vincenzo Savino, Luca Lanzoni, Angelo Marcello Tarantino, Marco Viviani	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.70
Investigation of crack path near cold expanded hole	Peter Zobec, Jernej Klemenc	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.71
A hybrid cohesive/volumetric multiscale finite element model for the failure analysis of fiber-reinforced composite structures	Daniele Gaetano, Fabrizio Greco, Lorenzo Leonetti, Paolo Nevone Blasi, Arturo Pascuzzo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.72
Crack effect on nonlinear mechanical behavior of microstructured composites as nonlocal continua	Farui Shi, Nicholas Fantuzzi, Patrizia Trovalusci	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.73

Presentation title	Authors	DOI
Simulation of dynamic fracture mechanics in quasi-brittle materials using a finite element modeling approach enhanced by moving mesh technique and interaction integral method	Fabrizio Greco; Domenico Ammendolea; Paolo Lonetti; Arturo Pascuzzo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.74
Cracking behavior analysis of reinforced concrete structures by using a cohesive fracture model	Umberto De Maio, Fabrizio Greco, Lorenzo Leonetti, Paolo Nevone Blasi, Andrea Pranno	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.75
A cohesive fracture approach for the nonlinear analysis of load-induced degradation of vibration characteristics in RC beams	A. Pranno, F. Greco, P. Lonetti, U. De Maio, D. Gaetano, C. Le Piane	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.76
An experimental investigation on the net cross-section failure of damaged plates containing holes	H. (Hendrik) Baarssen, J. (Jan-Willem) van Maanen, D. (Davide) Leonetti, H.H. (Bert) Snijder	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.77
Fracture behaviour of natural fibres reinforced epoxy composites using small punch test	Saeed Mousa, S Vantadori, Hossam El-Din M. Sallam, A.A. Abd-Elhady	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.78
Mechanical and morphological characterization of BCC - derived unit cells for biomedical devices	Fabio Distefano, Gabriella Epasto, Eugenio Guglielmino, Rosalia Mineo	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.79
Making a point: a discussion on the puncturing of soft tissues	Andrea Spagnoli, Roberto Brighenti, Riccardo Alberini, Mattia P. Cosma, Matteo Montanari, Farzad Tatar, Michele Terzano	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.80
Experimental and statistical study on the effects of fused filament fabrication parameters on the tensile strength of hybrid PLA-Wood fabricated parts	N.A. Fountas, J.D. Kechagias, S.P. Zaoutsos and N.M.Vaxevanidis	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.81
Experimental investigation on mechanical properties of FFF parts using different materials	Jelena Djokikj, Ognen Tuteski, Elisaveta Doncheva, Bojana Hadjieva	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.82

Presentation title	Authors	DOI
Effect of recycling on internal and external defects of Ti-6Al-4V powder particles for electron beam melting process	Costanzo Bellini, Filippo Berto, Vittorio Di Cocco, Francesco Iacoviello, Larisa Patricia Mocanu, Seyed Mohammad Javad Razavi, Stefania Franchitti	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.83
Fracture mechanics behaviour of Ti6Al4V via different experimental techniques	Rosa De Finis, Aleksander Omholt Myhre, Aleksander Sendrowicz, Alexei Vinogradov, Umberto Galietti, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.84
Experimental and numerical determination of the effect of ratio of crack length and specimen width (a/W) on the fracture mechanics parameters of ring-shaped specimens	Isaak Trajkovic, Milos Milosevic, Bojan Medjo, Aleksandar Sedmak, Marko Rakin	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.85
Influence of thickness on the IZOD impact strength of FDM printed specimens from PLA and PETG	Cosmin-Florin Popa, Mihai-Petru Mărghitaş, Sergiu-Valentin Galaţanu, Liviu Marşavina	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.86
On the fracture toughness of PPS and PPA reinforced with glass fiber	Alexandru Isaincu, Dan Micota, Liviu Marsavina	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.87
Comparing the efficiency of various post-processing methods on structural integrity of laser powder bed fusion AlSi10Mg	Erfan Maleki, Sara Bagherifard, S.M.J. Razavi, Filippo Berto, Mario Guagliano	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.88
Smart NiTi-polymer composites for shape morphing applications: interfacial damage under thermo-mechanical loading	Emanuele Sgambitterra, Elio Curcio, Stefano Rodinò, Danilo Renzo, Pietro Magarò, Franco Furgiuele, Marco Brandizzi, Carmine Maletta	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.89
Electrical Methods for Sensing Damages in Cement Mortar Beams combined with Acoustic Emissions	Andronikos Loukidis, Ilias Stavrakas, Dimos Triantis	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.90
Damage-failure transition in VT6 titanium alloy under	Vladimir Oborin, Mikhail Bannikov, Oleg Naimark	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.91

Presentation title	Authors	DOI
consecutive dynamic and VHCF loads		
Fatigue analysis method for lattice structures from metal additive manufacturing	Giorgio De Pasquale, Antonio Coluccia	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.92
Gapped momentum states as the mechanism of damage-failure transition in solids with defects	Oleg Naimark	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.93
Modeling of fatigue crack growth and crack paths in heat treated 42CrMo4 steel under mixed mode (I+II) loading	Monika Duda, Aleksandra Królicka, Michał Smolnicki, Grzegorz Lesiuk, Jose A.F.O. Correia, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.94
Failure analysis of pearlitic matrix components	D. Firrao, P. Matteis	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.95
Effect of adhesive type and bondline thickness on the peeling behavior of epoxy bonded CFRP/PA6 joints	F. Dicosta, C. Morano, M. Alfano, F. Furgiuele, A. Andrieu	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.96
Cohesive zone parameter influence on the impact strength of steel adhesive joints	T.F.C. Pereira, R.D.S.G. Campilho, J.J.M. Machado, R.J.B. Rocha, I.J. Sánchez-Arce	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.97
Adhesively-bonded T-joint cohesive zone analysis using dual-adhesives	P.M.D. Carvalho, R.D.S.G. Campilho, I.J. Sánchez-Arce, R.J.B. Rocha, A.R.F. Soares	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.98
Numerical evaluation of tensile-loaded tubular scarf adhesive joints	J.E.S.M. Silva, R.D.S.G. Campilho, I.J. Sánchez-Arce, R.D.F. Moreira	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.99
Design and validation of mixed-mode device for fracture toughness analysis of adhesive joints	Soares, A.R.F., Campilho, R.D.S.G., Chaves, F.J.P., Sánchez-Arce, I.J., Fecheira, J.M.F.S., Silva, F.J.G., Carvalho, P.M.D.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.100
Validation of theoretical models for the strength prediction of tubular adhesive joints	Pinheiro, A.E.S., Campilho, R.D.S.G., Moreira,	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.101

Presentation title	Authors	DOI
	R.D.F., Sánchez-Arce, I.J.	
Cohesive zone analysis of torsional tubular joints with an epoxy adhesive	Oliveira, T.J.S., Campilho, R.D.S.G., Cardoso, M.G., Sánchez-Arce, I.J.	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.102
Quantification of low-cycle fatigue damage accumulation in stress concentration area by local strain evolution	Yu.G Matvienko, V.S. Pisarev, S.I. Eleonsky	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.103
Fatigue crack propagation for an aircraft compressor under input data variability	V. Giannella, R. Sepe, R. Citarella	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.104
Microstructure based fatigue life modeling of SLM fabricated Hastelloy-X using a FFT approach	Chandrashekhar Pilgar, Javier Segurado	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.105
Revisiting the flattened brazilian disc configuration - Part 1	S.K. Kourkoulis, Ch.F. Markides, E.D. Pasiou, M. Stavropoulou, A. Papagiannopoulos, F. Sakaropoulos	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.106
Influence of post welding heat treatment on corrosion resistance of UNS N06625 nickel-chromium-molybdenum alloy	Paolo Ferro, Alberto Fabrizi, Franco Bonollo, Filippo Berto	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.107
Driving Mode Analysis of Quarter Elliptical Flaw under Cyclic Loading	Slobodanka Boljanović, Andrea Carpinteri	https://doi.org/10.53255/IGFTUBE.MEDFRACT2.108