

IGF Video recordings

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CONVEGNO NAZIONALE IGF
ROMA 2013

Roma, July 1-3, 2013

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IGF Young Researcher Award

The *IGF Young Researcher Award* honors the author(s) of an especially meritorious paper who, upon the date of submission of the paper, is less than 30 years of age.

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- 10.03.2013: Abstract submission
- 30.03.2013: Notification of Acceptance
- 31.05.2013: Papers submission



VIDEO-PRESENTATIONS

Presentation title	Authors	DOI
Shakedown in brittle matrix fiber reinforced cracked composite beams	A. Spagnoli, A. Carpinteri, L. Montanari	https://doi.org/10.53255/IGFTUBE.IGF22.1
Simulation of fatigue debonding in adhesively bonded three-dimensional joint geometries using cohesive zone model approach	F. Moroni, A. Pirondi, G. Giuliese	https://doi.org/10.53255/IGFTUBE.IGF22.2
Strength and fracture of TWIP steel dissimilar weld joints	R. Spena, P. Matteis, A. Sanchez, G. Scavino	https://doi.org/10.53255/IGFTUBE.IGF22.3
Analisi sperimentale dell'influenza della tensione media in prove di fatica assiale su provini lisci in acciaio inossidabile basata sull'energia specifica dissipata e l'effetto termoelastico	G. Meneghetti, M. Ricotta, L. Negrisolò, B. Atzori	https://doi.org/10.53255/IGFTUBE.IGF22.4
Thermomechanical behaviour of alumina-mullite refractories developed by recycling industrial ceramic wastes	A. Coglitore, A. Brentari, E. Burresi, F. Mazzanti, C. Mingazzini, M. Villa	https://doi.org/10.53255/IGFTUBE.IGF22.5
Toughening of silicon carbide based materials	G. Magnani, A. Brentari, S. Galvagno, G. Sico	https://doi.org/10.53255/IGFTUBE.IGF22.6
Very high cycle fatigue resistance of shot peened high-strength aluminium alloys	M. Benedetti, V. Fontanari, M. Bandini	https://doi.org/10.53255/IGFTUBE.IGF22.7
Funzioni peso per cricche ad angolo in corrispondenza di intersezione di fori	F. Salvati, P. Livieri, R. Tovo	https://doi.org/10.53255/IGFTUBE.IGF22.8
A numerical model to evaluate the effect of hydrogen embrittlement on low alloy steels	L. Vergani, G. Gobbi, C. Colombo	https://doi.org/10.53255/IGFTUBE.IGF22.9
A potential based particle method for failure modeling in solids	R. Brighenti, N. Corbari, A. Carpinteri	https://doi.org/10.53255/IGFTUBE.IGF22.10

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Resistenza all'adesione di lamine incollate in lega nichel-titanio	A. Santoro, M. Alfano, C. Maletta, L. Bruno, F. Furgiuele, S. Candamano	https://doi.org/10.53255/IGFTUBE.IGF22.11
Analisi di danneggiamenti complessi: approccio integrato tra frattografia ed altre metodologie di controllo ed analisi	A. Scanavini, F. Papazzoni, D. Cassinera	https://doi.org/10.53255/IGFTUBE.IGF22.12
Analysis of stress triaxiality influence ferritic dci damaging micromechanisms	V. Di Cocco, F. Iacoviello, A. Rossi, M. Cavallini, S. Natali	https://doi.org/10.53255/IGFTUBE.IGF22.13
Application of Digital Image Correlation for the effect of glass fibres on the strength and strain to failure of polyamide plastics	V. Crupi, E. Guglielmino, G. Risitano, F. Tavilla	https://doi.org/10.53255/IGFTUBE.IGF22.14
Application of the Virtual Fields Method to fracture mechanics	M. Rossi, M. Fardmshiri, M. Sasso, D. Amodio	https://doi.org/10.53255/IGFTUBE.IGF22.15
Crack path in a Zn Cu Al PE alloy under uniaxial load	V. Di cocco, F. Iacoviello, A. Rossi, V. Volpe, S. Natali, L. Tomassi	https://doi.org/10.53255/IGFTUBE.IGF22.16
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Damage investigation of Zn Al alloy coatings on steel wires	L. Zortea, V. Volpe, S. Natali, V. Di Cocco, F. Iacoviello	https://doi.org/10.53255/IGFTUBE.IGF22.18
Dog bone versus Gaussian gigacycle fatigue specimens for size effect evaluation	A. Tridello, D.S. Paolino, G. Chiandussi, M. Rossetto	https://doi.org/10.53255/IGFTUBE.IGF22.19
Effect of isothermal heat treatments on duplex stainless steels impact toughness	I. Calliari, M. Breda, E. Ramous, M. Magrini, G. Straffellini	https://doi.org/10.53255/IGFTUBE.IGF22.20
Effects of a lubricating aqueous gel on the operative life of Ni-Ti endodontic rotary instruments: preliminary investigation	A. Brotzu, F. Felli, C. Lupi, C. Vendittozzi, E. Fantini	https://doi.org/10.53255/IGFTUBE.IGF22.21

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Experimental determination of compressive strength of an unidirectional composite lamina: indirect estimate by using back-out factor (bf)	M. Scafè, M. Labanti, A. Coglitore, G. Raiteri, R. Dlacic, E. Troiani, E. Besseghini, M.P. Falaschetti	https://doi.org/10.53255/IGFTUBE.IGF22.22
Experimental measure and model validation of cod of cracked pipes under bending	D. Gentile, N. Bonora, G. Iannitti	https://doi.org/10.53255/IGFTUBE.IGF22.23
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Valutazione del danneggiamento a fatica di acciai inossidabili martensitici mediante metodi termici	U. Galietti, D. Palumbo, R. De Finis, F. Ancona	https://doi.org/10.53255/IGFTUBE.IGF22.27
Resistenza a fatica di nuovi acciai altoresistenziali per scocche automobilistiche	P. Matteis, G. Scavino, R. Sesana, F. D'Aiuto, D. Firrao	https://doi.org/10.53255/IGFTUBE.IGF22.28
FEM DBEM coupled procedure for assessment of cracks in lateral supports of the magnet system of wendelstein 7-X	R. Citarella, M. Lepore, J. Fellingner, V. Bykov, F. Schauer	https://doi.org/10.53255/IGFTUBE.IGF22.29
Finite element implementations for gradient elasticity	H. Askes	https://doi.org/10.53255/IGFTUBE.IGF22.30
Fracture behaviour of cast TiAl based intermetallic alloys	A. Brotzu, F. Felli, D. Piloni	https://doi.org/10.53255/IGFTUBE.IGF22.31
Fracture behaviour of grain refined A356 cast aluminium alloy: tensile and charpy impact specimens	D. Casari, A. Fortini, M. Merlin	https://doi.org/10.53255/IGFTUBE.IGF22.32
Fracture mechanics parameters evaluation using the digital image correlation technique a first approach	G. La Rosa, A. Marino Cugno Garrano	https://doi.org/10.53255/IGFTUBE.IGF22.33

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Fretting damage parameters in splined couplings	S. Bertaggia, V. Cuffaro, F. Curà, A. Mura	https://doi.org/10.53255/IGFTUBE.IGF22.34
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Graphite nodule morphology evolution as an indicator of DCI macroscopic damage level	V. Di Cocco, F. Iacoviello, A. Rossi, D. Iacoviello	https://doi.org/10.53255/IGFTUBE.IGF22.36
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Influence of carbon nanotubes addition into the mechanical properties of restoriarion mortars	A. Lopez, G. Ferro, P. Jagadale, J.M. Tulliani	https://doi.org/10.53255/IGFTUBE.IGF22.39
Integrity and durability of photovoltaic modules an overview of mechanical failure modes	M. Paggi	https://doi.org/10.53255/IGFTUBE.IGF22.40
Interpolation Model of Fatigue Crack propagation data	M. Grasso, F. Penta, P. Pinto, G.P. Pucillo	https://doi.org/10.53255/IGFTUBE.IGF22.41
Martensitic phase transformation of Cu-Zn-Al alloy, induced by cold rolling deformation	S. Natali, V. Volpe, L. Zortea, V. Di Cocco, F. Iacoviello	https://doi.org/10.53255/IGFTUBE.IGF22.42
Measurement of ductile fracture evolution in sheet metal forming	M. Sasso, M. Rossi, G. Chiappini, D. Amodio	https://doi.org/10.53255/IGFTUBE.IGF22.43
Meccanica della frattura ed effetti di scala: ragioni semplici per fenomeni complessi	A. Carpinteri	https://doi.org/10.53255/IGFTUBE.IGF22.44
Mechanical characterization of basalt fibre reinforced plastic with different fabric reinforcements tensile tests and Fe- calculations with representative volume elements(RVES)	P. Valentino, F. Furgiuele, M. Romano, I. Ehrlich, N. Gebbeken	https://doi.org/10.53255/IGFTUBE.IGF22.45

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Caratterizzazione meccanica e microstrutturale di rivestimenti HVOF a base cocralta con differenti rinforzi	E. Cerri, P. Leo, G.P. Zanon	https://doi.org/10.53255/IGFTUBE.IGF22.46
Mixed mode fatigue crack growth in railway axles	M. Grasso	https://doi.org/10.53255/IGFTUBE.IGF22.47
Modeling of smart concrete beams with shape memory alloy actuators	S. Malagisi, S. Marfia, E. Sacco, I. Toti	https://doi.org/10.53255/IGFTUBE.IGF22.48
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