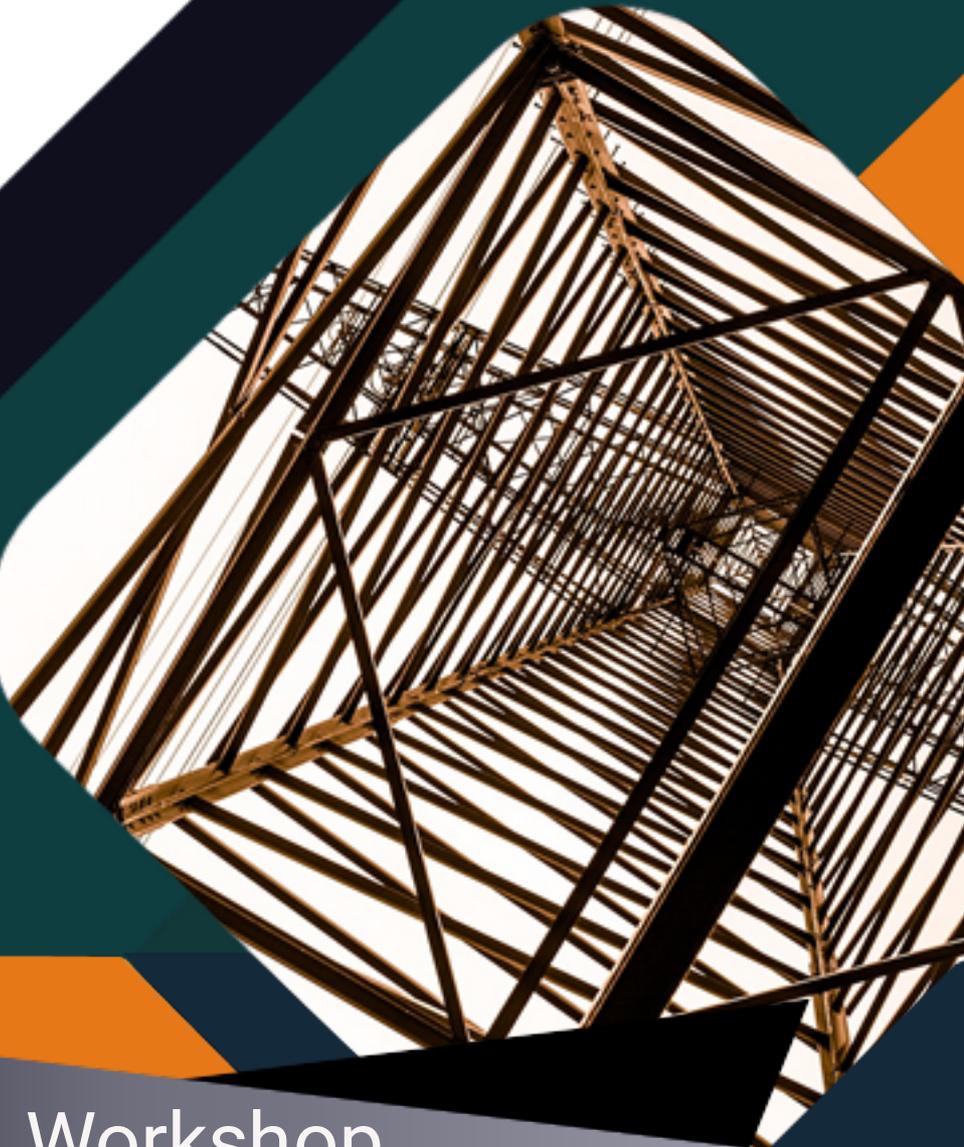


IGF Video recordings

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Workshop Ten years of 'Frattura ed Integrità Strutturale'



"Fracture and Structural integrity: ten years of 'Frattura ed Integrità Strutturale'"

June 4-6, 2018 - Cassino



IGF Workshop

Fracture and Structural integrity: ten years of 'Frattura ed Integrità Strutturale'

Cassino, Italy, June 4-6, 2018



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Proceedings

All the submitted papers, after being reviewed, will be published in an issue of *Procedia Structural Integrity*.

Papers should be prepared according to the template that will be soon available on the IGF website.

Authors of selected conference papers will be invited to submit extended versions for publication in peer reviewed special issue of *Frattura ed Integrità Strutturale*.

Deadlines

- 10.03.2018: Abstracts submission
- 20.03.2018: Abstracts notification of acceptance
- 30.04.2018: Papers submission
- 10.05.2018: Papers notification of acceptance
- 15.05.2018: Early bird registration

Organizing Secretariat

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Official Language

English will be the official language of the event.

VIDEO-PRESENTATIONS

Presentation title	Authors	DOI
Mechanical Qualification of the Hybrid Metal Extrusion & Bonding HYB Process for Butt Welding of 4 mm plates of AA6082-T6	F. Berto, L. Sandnes, O. Grong, P. Ferro	https://doi.org/10.53255/IGFTUBE.WS2018.1
Mode II fracture toughness for non planar frictional cracks	A. Spagnoli, A. Carpinteri, M. Terzano	https://doi.org/10.53255/IGFTUBE.WS2018.2
On the fatigue strength of 3D printed polylactide PLA	O.H. Ezeh, L. Susmel	https://doi.org/10.53255/IGFTUBE.WS2018.3
On Vibration Modes of SFRP Materials	I. Guglielmino, G. Risitano, I. Scappaticci	https://doi.org/10.53255/IGFTUBE.WS2018.4
Pearlitic Ductile Cast Iron mechanical properties gradient analysis in graphite elements	F. Iacoviello, V. Di Cocco, G. Favaro	https://doi.org/10.53255/IGFTUBE.WS2018.5
Performance characterization of an innovative dual load controlled tribometer	P. Leroux, D. Li, D. Morrone	https://doi.org/10.53255/IGFTUBE.WS2018.6
Pressure bottles that explode after many years of service is there a common cause	D. Firrao, L. Marmo, P. Matteis	https://doi.org/10.53255/IGFTUBE.WS2018.7
Shape memory alloy couplers for ultra high vacuum applications in particle accelerators	P. Chiggiato, F. Furgiuele, C. Garlon, C. Garion, C. Maletta, F. Niccoli, e. Sgambitterra	https://doi.org/10.53255/IGFTUBE.WS2018.8
The impact of temperature and exploitation time on tensile properties and plain strain fracture toughness K in a welded joint	I. Camagic, S. Sedmak, A. Sedmak, Z. Burzic, M. Marsenic	https://doi.org/10.53255/IGFTUBE.WS2018.9
The influence of metallurgical data on residual stresses in Computational Welding	L. Romanin, P. Ferro, F. Berto	https://doi.org/10.53255/IGFTUBE.WS2018.10
Tribological properties of wear resistant coatings obtained by cold gas dynamic spray	P. Masarò, A.L. Marino, C. Maletta, M. Tului, A. Di Schino	https://doi.org/10.53255/IGFTUBE.WS2018.11
A coupled ALE Cohesive formulation for interfacial	M.F. Funari, F. Greco, P. Lonetti	https://doi.org/10.53255/IGFTUBE.WS2018.12

Presentation title	Authors	DOI
debonding propagation in sandwich panels		
A preliminary study on the potentialities of the semi circular ring test	C. F. Markides, E.D. Pasiou, S.K. Kourkoulis	https://doi.org/10.53255/IGFTUBE.WS2018.13
An alternative configuration for the elimination of parasitic effects during pull out tests	S.K. Kourkoulis, I. Dakanali, I. Stavrakas, D. Triantis	https://doi.org/10.53255/IGFTUBE.WS2018.14
Analysis of reinforced concrete slabs under blast loading	G. Iannitti, N. Bonora, G. Curiale, S. De Muro, S. Marfia, A. Ruggiero, E. Sacco, S. Scafati, G. Testa	https://doi.org/10.53255/IGFTUBE.WS2018.15
Application of continuum damage mechanics for Fracture Forming Limit Curve prediction	G. Testa, N. Bonora, A. Ruggiero, D. Gentile, G. Iannitti	https://doi.org/10.53255/IGFTUBE.WS2018.16
Bending damages in galvanized ductile cast irons	V. Di Cocco, F. Iacoviello, F. Carlino, S. Natali	https://doi.org/10.53255/IGFTUBE.WS2018.17
Circular holes under remote tensile load From experiments to FFM theory	A. Sapora, A. R. Torabi, P. Cornetti	https://doi.org/10.53255/IGFTUBE.WS2018.18
Comparative investigation of mode I and II fracture toughness of directly cured CFRP and co cured bonded CFRP joints	F. Moroni, A. Pirondi, C. Pernechele, A. Gaita, L.Vescovi	https://doi.org/10.53255/IGFTUBE.WS2018.19
Crack propagation in NiTi based shape memory alloys effect of the operating temperature	F. Furguele, P. Magarò, C. Maletta, D. Renzo, E. Sgambitterra	https://doi.org/10.53255/IGFTUBE.WS2018.20
Damage Mechanics 1958 2018 60 years of continuous development	N. Bonora	https://doi.org/10.53255/IGFTUBE.WS2018.21
Diffraction of waves on a conical defect located in acoustic media	O. Reut, N. Vaysfeld	https://doi.org/10.53255/IGFTUBE.WS2018.22
Ductile damage evolution under cyclic non proportional loading paths	R. Fincato, S. Tsutsumi, H. Momil	https://doi.org/10.53255/IGFTUBE.WS2018.23
Engineering thoughts on Hydrogen Embrittlement	G. Gabetta, P. Cioffi, R. Bruschi	https://doi.org/10.53255/IGFTUBE.WS2018.24

Presentation title	Authors	DOI
Evaluating the specific heat loss in severely notched stainless steel specimens for fatigue strength analyses	D. Rigon, M. Ricotta, G. Meneghetti	https://doi.org/10.53255/IGFTUBE.WS2018.25
Evaluation of the ductile fracture of Q460 steel under two different failure criteria	R. Fincato, S. Tsutsumi	https://doi.org/10.53255/IGFTUBE.WS2018.26
Evolution of fracture mechanics parameters for cracks in residual stress fields	Y. Matvienko, S. Eleonsky, V. Pisarev	https://doi.org/10.53255/IGFTUBE.WS2018.27
Experimental and numerical analysis of TIG dressing applied to a steel T joint	P. Ferro, F. Berto, F. Bonollo, R. Montanari	https://doi.org/10.53255/IGFTUBE.WS2018.28
Experimental assessment of the effectiveness of hydrophobic UV cured coatings in protecting glass surfaces against stress corrosion	G. Marigiò, S. Dalle Vacche, R. Bongiovanni, M. Corrado	https://doi.org/10.53255/IGFTUBE.WS2018.29
Experimental investigation of hydrothermal ageing on CFRP single lap joints	C. Bellini, G. Parodo, W. Polini, L. Sorrentino	https://doi.org/10.53255/IGFTUBE.WS2018.30
Feasibility and effectiveness of exoskeleton structures for seismic protection	A. Reggio, L. Restuccia, G.A. Ferro	https://doi.org/10.53255/IGFTUBE.WS2018.31
Fracture behaviour of alloys for a laser ranged satellite	F. Felli, A. Brotzu, D. Pilone, A. Paolozzi, I. Ciufolini	https://doi.org/10.53255/IGFTUBE.WS2018.32
Influence of power spectral density shape on fatigue damage	S. Vantadori, A. Carpinteri, G. Fortese, C. Ronchei, D. Scorza, A. Zanichelli	https://doi.org/10.53255/IGFTUBE.WS2018.33
Intergranular Fracture and Microstructure Embrittlements in Quench and Tempered Low Alloy Carbon Steels	G. Krauss	https://doi.org/10.53255/IGFTUBE.WS2018.34
Mechanical performances increase of natural stones by GFRP sandwich structures		https://doi.org/10.53255/IGFTUBE.WS2018.35
Non destructive diagnostic analysis of pipelines	E. Guglielmino, G. Risitano, D. Santonocito	https://doi.org/10.53255/IGFTUBE.WS2018.36
Notch induced anisotropic fracture of cold drawn	J. Toribio	https://doi.org/10.53255/IGFTUBE.WS2018.37

Presentation title	Authors	DOI
pearlitic steels and associated crack path deflection mixed mode stress state		
Numerical simulation of the de bonding phenomenon of FRCM strengthening systems	E. Grande, M. Imbimbo, S. Marfia, E. Sacco	https://doi.org/10.53255/IGFTUBE.WS2018.38
Microstructure based anisotropic fatigue behavior of hot rolled and cold drawn pearlitic steel wires and corresponding crack paths	F. L. de Leon, A. Machado	https://doi.org/10.53255/IGFTUBE.WS2018.39
Mixed mode fracture toughness of particleboard	L. Marsavina, O. Pop, E. Linul	https://doi.org/10.53255/IGFTUBE.WS2018.40
Mould Design for Manufacturing of Isogrid Structures in Composite Material	C. Bellini, L. Sorrentino	https://doi.org/10.53255/IGFTUBE.WS2018.41
Non destructive diagnostic analysis of pipeline	G. Bolson	https://doi.org/10.53255/IGFTUBE.WS2018.42

