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ISBN: 978-88-31482-65-6



## The 8th International Conference on Crack Paths - CP2024





# The 8th International Conference on Crack Paths

## CP2024

10 - 12 September 2024, Rimini, Italy and online

### Chairpersons

- Sabrina Vantadori, University of Parma
- Francesco Iacoviello, Università di Cassino e del Lazio Meridionale
- Nicholas Fantuzzi, University of Bologna
- Andrea Carpinteri, University of Parma
- Luca Vincenzo Ballestra, University of Bologna



Presentation title	Authors	DOI
Opening	S. Vantadori	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.01">https://doi.org/10.53255/IGFTUBE.cp2024.01</a>
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Plenary Lecture 2: Modeling of cohesive interface: contact, interlocking, and dilatancy	Elio Sacco	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.03">https://doi.org/10.53255/IGFTUBE.cp2024.03</a>
Plenary Lecture 3: Fretting fatigue behaviour of Additively Manufactured Ti-6Al-4V	Reza Talemi	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.04">https://doi.org/10.53255/IGFTUBE.cp2024.04</a>
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Microstructure-dependent fatigue and corrosion fatigue mechanisms of diffusion brazed metastable austenite joints with nickel-based filler metals	Johannes L. Otto, C. Marroni, L.M. Sauer, H. Kanagarajah, F. Walther	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.87">https://doi.org/10.53255/IGFTUBE.cp2024.87</a>
Evaluation of the fatigue strength of high-strength steel welded joints based on local approaches	America Califano, A. Bacco, V. Giannella, R. Sepe	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.88">https://doi.org/10.53255/IGFTUBE.cp2024.88</a>
Fatigue crack path of an Al-Zn alloy reinforced with dispersed zirconium dioxide nanoparticles	C. Bellini, D. Scorza, S. Vantadori, F. Iacoviello, Vittorio Di Cocco	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.89">https://doi.org/10.53255/IGFTUBE.cp2024.89</a>
Alteration of the shear force in an internal beam-column joint during the initiation and growth of a crack in a cantilever beam	Albena Doicheva	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.90">https://doi.org/10.53255/IGFTUBE.cp2024.90</a>
Estimation of crack resistance curves and crack paths in ceramic-polymer composites with nacre-like lamellar and brick-mortar structure	Sudhendu N. Tiwari, P.K. Agnihotri	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.91">https://doi.org/10.53255/IGFTUBE.cp2024.91</a>
Visual Crack Detection in Steel Structures With Convolutional Neural Networks	Andrii Kompanets, Davide Leonetti, Remco Duits, Bert Snijder	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.92">https://doi.org/10.53255/IGFTUBE.cp2024.92</a>
Hierarchical micro- and nano-interfaces as fracture propagation traps in natural layered composites	I. Greenfeld, I. Kellersztein, Hanoch Daniel Wagner	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.93">https://doi.org/10.53255/IGFTUBE.cp2024.93</a>
Crack path theory and applications in phase field fracture context	Valery Shlyannikov, D. Kosov, R. Khamidullin	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.94">https://doi.org/10.53255/IGFTUBE.cp2024.94</a>
A model-based health monitoring technique to investigate the dynamic properties degradation in reinforced beams under progressive damage	U. De Maio, F. Greco, P. Lonetti, A. Pranno, Giulia Sansone	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.95">https://doi.org/10.53255/IGFTUBE.cp2024.95</a>
The effect of ageing on the corrosion-induced decrease of plane stress fracture toughness of Al-Cu-Li 2198 alloy	Christina Charalampidou, A. Proiou, S. Kourkoulis, N. Alexopoulos	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.96">https://doi.org/10.53255/IGFTUBE.cp2024.96</a>
Closing	S. Vantadori	<a href="https://doi.org/10.53255/IGFTUBE.cp2024.97">https://doi.org/10.53255/IGFTUBE.cp2024.97</a>



