

Prof. Ing. **Andrea CARPINTERI**

nato a OMISSIS

SETTORE SCIENTIFICO DISCIPLINARE ICAR/08 Scienza delle costruzioni

SETTORE CONCORSUALE 08/B2 Scienza delle costruzioni

MACROSETTORE 08/B Ingegneria strutturale e geotecnica

PAGINA WEB PERSONALE: OMISSIS

EMAIL: OMISSIS

NUMERO DI PUBBLICAZIONI

227 Pubblicazioni su Riviste Internazionali

H-INDEX 35 in SCOPUS con 3645 citazioni, e 244 citazioni per la pubblicazione più citata

ATTUALE POSIZIONE ACCADEMICA E AFFILIAZIONI

2000–oggi: Professore Ordinario di Scienza delle Costruzioni (SSD ICAR/08) presso il Dipartimento di Ingegneria e Architettura, Università di Parma

ESPERIENZA PROFESSIONALE

1994-2000: Professore Associato di Scienza delle Costruzioni presso la Facoltà di Ingegneria dell'Università di Parma

1988-1994: Professore Associato di Scienza delle Costruzioni presso la Facoltà di Ingegneria dell'Università di Padova

ISTRUZIONE

1975-1980: Laurea in Ingegneria Civile con la votazione di 110/110 e LODE, Università di Bologna

COORDINATORE di 3 LIBRI:

2003: "Biaxial/Multiaxial Fatigue and Fracture", Special Technical Publication of ESIS (Europ. Struct. Integrity Society), Elsevier Science Ltd, Oxford, U.K., 504 pages, 2003 (con Manuel de Freitas, Lisbon University, e Andrea Spagnoli, University of Parma)

1994: "Handbook of Fatigue Crack Propagation in Metallic Structures", Elsevier Science Publishers B.V., Amsterdam (The Netherlands), 1765 pages, 1994

1989: "Materiali per l'Ingegneria Civile" (in Italian), Consiglio Nazionale delle Ricerche (CNR), Rome (Italy), 221 pages, 1989

COORDINATORE DI NUMERI SPECIALI DI RIVISTE INTERNAZIONALI

Guest Editor di 26 Numeri Speciali di Riviste Internazionali:

2020: International Journal of Fatigue, Multiaxial Fatigue 2019, in press, con Fionn Dunne, Ali Fatemi, Franck Morel, Thierry Palin-Luc

2020: Theoretical and Applied Fracture Mechanics, Multiaxial Fracture 2019, in press, con Masahiro Endo, Franck Morel, Thierry Palin-Luc, Michael Vormwald

2019: International Journal of Fatigue, Fatigue from crack initiation to failure: role of defects and life assessment, in press, con Aleksandar Sedmak, Filippo Berto, Uwe Zerbst

2019: International Journal of Fatigue, Fatigue Crack Paths 2018, Vol.128, 2019, con Filippo Berto, Youshi Hong, Thierry Palin-Luc

2019: Theoretical and Applied Fracture Mechanics, Crack Paths 2018, in press, con Francesco Iacoviello, Les Pook, Sabrina Vantadori

2019: Fracture and Structural Integrity, Crack Paths, Vol.48, 2019, con A.Spagnoli e

S.Vantadori, Univ.Parma

2019: Int.J. of Fatigue, Fatigue in the Presence of Cracks or Notches, in press, con P.Moreira, Univ.Porto, P.Tavares, Univ.Porto, S.Vantadori, Univ.Parma

2018: Engineering Failure Analysis, 21st Europ.Conf. on Fracture, Vol.83,1-239, 2018, con L.Susmel, Univ.Sheffield, UK, D.G.Hatting, Nelson Mandela Metropolitan Univ., South Africa, Z.Bozic, Univ.Zagreb, Croatia, D.Angelova, Univ.ChemicalTechnology e Metallurgy,Bulgaria

2017: Engineering Fracture Mechanics, Multiaxial Fracture 2016, Vol.174,1-252,2017, con M.Endo, Univ.Fukuoka, C.Navarro Pintado, Univ.Seville, M.Vormwald, Univ.Darmstadt

2017: Int.J. of Fatigue, Multiaxial Fatigue 2016: Experiments and Modeling, Vol.100, Part2, 453-650, 2017, con A.Fatemi, Univ.Toledo, T.Palin-Luc,Arts et MétiersParisTech, S.Vantadori, Univ.Parma

2016: Fracture and Structural Integrity, Multiaxial Fatigue and Fracture,Issue 38,1-295,2016, con A.Fatemi, Univ.Toledo, C. Navarro Pintado, Univ.Seville

2016: Fracture and Structural Integrity, Multiaxial Fatigue and Fracture,Issue 37,1-248,2016, con A.Fatemi, Univ.Toledo, C. Navarro Pintado, Univ.Seville

2016: Engineering Fracture Mechanics, Crack Paths 2015,Vol.167,1-284,2016, con R.Brighenti,Univ.Parma, A.Fatemi, Univ.Toledo, L.Susmel, Univ.Sheffield

2016: Int.J. of Fatigue, Fatigue Crack Paths 2015, Vol.92, Part 2, 383-632, 2016, con F.Berto, Univ.Padua, S.Vantadori, Univ.Parma, M.Vormwald, Univ.Darmstadt

2014: Theoretical and Applied Fracture Mechanics, Current models in multiaxial fatigue and fracture – In memory of Professor Ewald Macha,Vol.73,1-170,2014, con E.Macha, Univ.Opole

2014: Int.J. of Fatigue, Multiaxial Fatigue 2013,Vol.67,1-228,2014, con T.Itoh, Univ.Ritsumeikan, T.Palin-Luc, Arts et MétiersParisTech, M.Sakane, Univ. Ritsumeikan, L.Susmel, Univ.Sheffield

2014: Int.J. of Fatigue, Fatigue Crack Paths 2012,Vol.58,1-224,2014, con L.P.Pook,Univ.CollegeLondon, L.Susmel,Univ.Sheffield, S.Vantadori,Univ.Parma

2013: Engineering Fracture Mechanics, Crack Paths 2012,Vol.108,1-316,2013, con R.Brighenti,Univ.Parma, F.Iacoviello, Univ.Cassino, L.P.Pook, Univ. College London

2013: Fatigue and Fracture of Engineering Materials and Structures, Characterisation of Crack Tip Stress Fields,Vol.36,No.1,1-84,2013, con E.A.Patterson, Univ.Liverpool, L.Susmel, Univ.Sheffield

2011: Engineering Fracture Mechanics, Multiaxial Fracture,Vol.78,No.8,1515-1826,2011, con L.P.Pook, Univ. College London, A.Spagnoli, Univ.Parma

2011: Int.J. of Fatigue, Multiaxial Fatigue Models,Vol.33,No.8,929-1157,2011, con L.P.Pook, Univ. College London, M.Sonsino, Univ.Darmstadt

2010: Engineering Fracture Mechanics, Crack Paths 2009,Vol.77,No.11,1617-2212,2010, con B.Atzori, Univ.Padua, P.Lazzarin, Univ.Padua, L.P.Pook, Univ. College London, A.Spagnoli, Univ.Parma

2008: Engineering Fracture Mechanics, Crack Paths,Vol.75,No.3-4,297-900,2008, con L.P.Pook, Univ. College London, A.Spagnoli, Univ.Parma

2006: Int.J. of Fatigue, Biaxial/Multiaxial Fatigue and Fracture,Vol.28,No.5-6,449-674,2006, con L.P.Pook, Univ. College London, M.Sonsino, Univ. Darmstadt, H.Zenner, Univ.Clausthal-Zellerfeld

2005: Fatigue and Fracture of Engineering Materials and Structures, Fatigue Crack Paths, Vol.28, No.1/2,1-265, 2005, con L.P.Pook, Univ. College London

1997: Fatigue and Fracture of Engineering Materials and Structures, Italian Special Issue,Vol.20,No.8,1083-1234,1997, con I.Iori, Univ.Parma, G.Maier, Polytechnic Milan

MEMBRO DEL CONSIGLIO DI RIVISTE INTERNAZIONALI CON PEER-REVIEW

Membro dell' Editor Boards di 10 Riviste Internazionali:

2007-oggi (e dal 1997 al 2001): Int.J. of Fatigue

2016-oggi (e dal 1996 al 2002): Fatigue and Fracture of Engineering Materials and Structures

2015-oggi: Theoretical and Applied Fracture Mechanics

2013-oggi: Structural Engineering and Mechanics - An Int. J.

2011-oggi: Journal of Testing and Evaluation (American Society of Testing and Materials)

2009-oggi: Scientific Technical Review

2009-oggi: Frattura ed Integrità Strutturale

2005-oggi: Strength of Materials

2018-oggi: Applied Sciences

2018-oggi: Science and Engineering of Composite Materials

COMITATI SCIENTIFICI E ATTIVITA' PROFESSIONALI

2000-oggi: Coordinatore del TC3 (Technical Committee No.3 'Fatigue of Engineering Materials and Structures') dell' ESIS (European Structural Integrity Society)

2013-2019: Coordinatore del del Dottorato di Ricerca in "Ingegneria Civile e Architettura" (Università di Parma)

Dal 2010 al 2012: Membro del Dottorato di Ricerca in "Ingegneria Civile" (Università di Parma)

Dal 1991 al 2010: Membro del Dottorato di Ricerca in "Meccanica delle Strutture" (Sede Amministrativa presso l'Università di Bologna)

From 2007 to 2012: Direttore del Laboratorio 'Prove Materiali e Strutture' dell'Università di Parma

ATTUALI FINANZIAMENTI DI RICERCA

2018-2020: H2020-WIDESPREAD-2018-03, Progetto di ricerca N. 857124 sul tema "Integrità strutturale e affidabilità di materiali avanzati ottenuti tramite produzione additiva"

2017-2020: PRIN Progetto di ricerca di rilevante interesse nazionale (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR), cofinanziamento triennale (Bando 2017), sul tema "Modellazione di leggi costitutive per materiali da costruzione tradizionali e innovativi"

2015-2018: PRIN Progetto di ricerca di rilevante interesse nazionale (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR), cofinanziamento triennale (Bando 2015), sul tema "Modellazione meccanica avanzata di nuovi materiali e strutture per la soluzione delle sfide di Horizon 2020"

2018-2019: Fundings from private companies

FINANZIAMENTI DI RICERCA OTTENUTI IN PASSATO

2011-2012: Responsabile coordinatore del Programma Spinner "Progetti di Idee imprenditoriali innovative e/o ad alto contenuto di conoscenza tecnologica" (Bollettino Ufficiale Regione Emilia Romagna n.70 PartII, 6 maggio 2011) sul tema "Sviluppo di una metodologia scientifica di calcolo per il dimensionamento di pavimentazioni stradali flessibili rinforzate con interstrati sintetici"

2004-2005: Responsabile coordinatore del programma di ricerca scientifica di rilevante interesse nazionale (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR): cofinanziamento per il biennio 2004-2005 (DM n. 30 del 12 febbraio 2004) sul tema "Metodi di previsione della resistenza a fatica di componenti strutturali intagliati soggetti a stati tensionali multiassiali", Cofin-Prin 2004-2005

2003-2004: Responsabile coordinatore del programma Nazionale di ricerche in Antartide

per il biennio 2003-2004 (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR), sul tema "Comportamento a frattura e fatica di elementi strutturali metallici soggetti a carichi ripetuti in condizioni di bassa temperatura", Antarctica 2003-2004

1994-1997: Coordinatore del Numerical Methods Group relativamente al Progetto di Ricerca COPERNICUS 1994-1997 "Influence of local stress and strain concentrators on the reliability and safety of structures", finanziato dalla Comunità Europea

1985-1988: Membro della Commissione del CNR (Consiglio Nazionale delle Ricerche) per lo studio preliminare relativo al Progetto Finalizzato "Materiali per l'Ingegneria Civile", dal 1985 al 1988 (Coordinatore della Commissione: Prof. Elio Giangreco, Università di Napoli)

ATTIVITÀ DI CONSULENZA

1985: Partecipazione, in qualità di esperto nel settore "Controllo staticità immobili", alla Missione in Messico in occasione del terremoto del settembre 1985, per conto del Ministero degli Affari Esteri

ATTIVITÀ DIDATTICHE

1994-oggi: Scienza delle Costruzioni per gli allievi del Corso di Laurea Triennale in Ingegneria Civile e Ambientale, Università degli Studi di Parma

2017-oggi: Modellazione Numerica di Materiali Avanzati in Applicazioni Strutturali per gli allievi del Corso di Laurea Magistrale in Ingegneria Civile e Ambientale, Università degli Studi di Parma

1992-1994: Meccanica dei Materiali e della Frattura per gli allievi del Corso di Laurea Magistrale in Ingegneria Civile, Università degli Studi di Padova

1987-1992: Complementi di Scienza delle Costruzioni per gli allievi del Corso di Laurea in Ingegneria Civile, Università degli Studi di Padova

ARGOMENTI DI RICERCA

Meccanica della Frattura per materiali da costruzione

Meccanica della Fatica-Frattura per materiali da costruzione

Criteri di resistenza a fatica

Effetti di scala per le strutture

Comportamento a fatica di travi in calcestruzzo fibrorinforzato

ORGANIZZAZIONE DI CONFERENZE INTERNAZIONALI

Co-Chairman di 12 Conferenze Internazionali:

2019: 12th Int. Conf. on "Multiaxial Fatigue and Fracture (ICMFF 12)", Bordeaux, France, 24-26 June 2019

2018: 6th Int.Conf. on "Crack Paths", Verona, Italy, 19-21 September 2018

2017: Mini-Symposium on "Fracture and Fatigue in presence of cracks or notches" at "2nd Int.Conf. on Structural Integrity 2017 (ICSI2017)", Funchal (Madeira), Portugal, 4-7 Sept 2017

2016: 11th Int.Conf. on "Multiaxial Fatigue and Fracture (ICMFF 11)", Seville, Spain, 1-3 June 2016

2015: 5th Int.Conf. on "Crack Paths", Ferrara, Italy, 16-18 Sept 2015

2013: 10th Int.Conf. on "Multiaxial Fatigue and Fracture (ICMFF 10)", Kyoto, Japan, 3-6 June 2013

2012: 4th Int.Conf. on "Crack Paths (CP 2012)", Gaeta, Italy, 19-21 Sept 2012

2010: 9th Int.Conf. on "Multiaxial Fatigue and Fracture (ICMFF 9)", Parma, Italy, 7-9 June 2010

2009: 3rd Int.Conf. on "Crack Paths (CP 2009)", Vicenza, Italy, 23-25 Sept 2009

2006: 2nd Int.Conf. on "Crack Paths (CP 2006)", Parma, Italy, 14-16 Sept 2006

2005: Mini-Symposium on "Numerical Approaches to Fatigue" at "11th Int.Conf. on Fracture", Turin, Italy, 20-25 March 2005

2003: 1st Int.Conf. on "Fatigue Crack Paths (FCP2003)", Parma, Italy, 18-20 Sept 2003

COMITATO SCIENTIFICO DI CONFERENZE INTERNAZIONALI:

Membro dell'International Scientific Advisory Committees di numerosi Congressi Internazionali

PREMI INTERNAZIONALI

2018: Selezionato da Publons quale Vincitore di un Premio come Revisore per l'anno 2018 essendo risultato nel primo 1% dei Revisori in Ingegneria sulla base delle revisioni eseguite durante il biennio 2017-2018

2018: Vincitore (insieme alla Professoressa Sabrina Vantadori, Università di Parma, e al Professor Ignacio Iturrioz, Federal University of do Rio Grande do Sul, Porto Alegre, Brasile) del premio nell'ambito del "BANDO OPEN-UP Outgoing Publications, Essays and Networks", finalizzato a finanziare la pubblicazione in forma open access, da parte di Docenti e Ricercatori dell'Università di Parma, di review della letteratura, saggi, o monografie su temi innovativi. Il progetto vincitore, intitolato "*Dynamic shieldings under seismic action*", propone di simulare tramite modelli teorico-numeriche il comportamento delle strutture civili in presenza di barriere di protezione sismica, ottobre 2018

2018, 2017, 2016, 2013: Selezionato dagli Editors di Fatigue & Fracture of Engineering Materials & Structures come vincitore del Premio 'the Most Active Reviewer Award'

2017: Eletto "IGF Honorary Member" dall' Executive Committee dell'IGF (Italian Group of Fracture) per le "significative ricerche svolte, le attività editoriali e organizzative nel campo della integrità strutturale (meccanica della frattura e fatica)

2012: Eletto "ESIS Fellow" dal Fellows Committee dell' ESIS (European Structural Integrity Society) "for outstanding contributions to the field of Structural Integrity"

2011: Vincitore di un premio nell'ambito del Concorso Internazionale di Idee "Le energie rinnovabili per le isole minori e le aree marine protette italiane" - Edizione 2011, promosso e patrocinato da Marevivo, ENEA, GSE (Gestione Servizi Energetici), Ministero per i Beni e le Attività Culturali, Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Citera (dell'Università di Roma La Sapienza)

GRANTS NAZIONALI E INTERNAZIONALI COME PRINCIPAL INVESTIGATOR

5 Grants come Principal Investigator:

2017-2020: PRIN 2017 Progetto di ricerca di rilevante interesse nazionale (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR), cofinanziamento triennale (Bando 2017), sul tema "Modellazione di leggi costitutive per materiali da costruzione tradizionali e innovativi".

2011-2012: Programma Spinner "Progetti di Idee imprenditoriali innovative e/o ad alto contenuto di conoscenza tecnologica" (Call published on 6 maggio 2011 sul Bollettino Ufficiale della Regione Emilia Romagna n. 70 - Parte II) sul tema "Sviluppo di una metodologia scientifica di calcolo per il dimensionamento di pavimentazioni stradali flessibili rinforzate con interstrati sintetici"

2004-2005: Programma di ricerca scientifica di rilevante interesse nazionale (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR): cofinanziamento per il biennio 2004-2005 (DM n. 30 del 12 febbraio 2004) sul tema "Metodi di previsione della resistenza a fatica di componenti strutturali intagliati soggetti a stati tensionali multiassiali", Cofin-Prin 2004-2005.

2003-2004: Programma Nazionale di ricerche in Antartide per il biennio 2003-2004 (Ministero dell'Istruzione, dell'Università e della Ricerca, MIUR), sul tema "Comportamento a frattura e fatica di elementi strutturali metallici soggetti a carichi

ripetuti in condizioni di bassa temperatura", Antarctica 2003-2004.

1994-1997: Progetto di Ricerca COPERNICUS 1994-1997 "Influence of local stress and strain concentrators on the reliability and safety of structures", finanziato dalla Comunità Europea.

RICONOSCIMENTI NAZIONALI E INTERNAZIONALI

Co-Autore del lavoro "Mode I fracture toughness of fibre reinforced concrete", Theoretical and Applied Fracture Mechanics, Vol.91, 66-75, 2017, che negli ultimi tre mesi del 2018 era tra i 20 lavori più scaricati dalla rete, pubblicati dalla rivista internazionale Theoretical and Applied Fracture Mechanics

Co-Autore del lavoro "Lifetime estimation in the low/medium-cycle regime using the Carpinteri-Spagnoli multiaxial fatigue criterion", Theoretical and Applied Fracture Mechanics, Vol.73, 120-127, 2014, che nel 2018 era tra i 10 più citati lavori pubblicati dalla rivista internazionale Theoretical and Applied Fracture Mechanics dall'anno 2013

Co-Autore del lavoro "An alternative definition of the shear stress amplitude based on the Maximum Rectangular Hull method and application to the C-S (Carpinteri - Spagnoli) criterion", FFEMS, Vol.37, No.7, 764-771, 2014, che era nei 10 più citati lavori pubblicati dalla rivista internazionale Fatigue & Fracture of Engineering Materials & Structures nell'anno 2014

Co-Autore del lavoro "Structural integrity assessment of metallic components under multiaxial fatigue: the C-S criterion and its evolution", FFEMS, Vol.36, No.9, 870-883, 2013, che era nei 10 più citati lavori pubblicati dalla rivista internazionale Fatigue & Fracture of Engineering Materials & Structures nell'anno 2013

Co-Autore del lavoro "Stress intensity factors and fatigue growth of surface cracks in notched shells and round bars: two decades of research work", FFEMS, Vol.36, No.11, 1164-1177, 2013, che era nei 10 più citati lavori pubblicati dalla rivista internazionale Fatigue & Fracture of Engineering Materials & Structures nell'anno 2013

Co-Autore del lavoro "Surface cracks in fatigued structural components: a review", FFEMS, Vol.36, No.12, 1209-1222, 2013, che era nei 10 più citati lavori pubblicati dalla rivista internazionale Fatigue & Fracture of Engineering Materials & Structures nell'anno 2013

Co-Autore del lavoro "Fatigue life assessment under a complex multiaxial load history: an approach based on damage mechanics", FFEMS, Vol.35, No.2, 141-153, 2012, che era nei 10 più citati lavori pubblicati dalla rivista internazionale Fatigue & Fracture of Engineering Materials & Structures nell'anno 2012

PRINCIPALI PUBBLICAZIONI SCIENTIFICHE

1. Alberto Carpinteri, Andrea Carpinteri, Hysteretic behavior of R.C. beams. **Journal of Structural Engineering (A.S.C.E.)**, Vol. 110, No. 9, 2073-2084, 1984.
2. Alberto Carpinteri, Andrea Carpinteri, Lateral loading distribution between the elements of a three-dimensional civil structure. **Computers and Structures**, Vol. 21, No. 3, 563-580, 1985.

3. Andrea Carpinteri, Crack growth resistance in non-perfect plasticity: isotropic versus kinematic hardening. **Theoretical and Applied Fracture Mechanics**, Vol. 4, No. 2, 117-122, 1985.
4. Andrea Carpinteri, Dimensional analysis implications of the fictitious crack model. **Engineering Fracture Mechanics**, Vol. 22, No. 2, 327-333, 1985.
5. Andrea Carpinteri, Combined tension and bending stress-intensity factor of surface crack modelled as spring elements. **Theoretical and Applied Fracture Mechanics**, Vol. 14, No. 3, 243-251, 1990.
6. Andrea Carpinteri, Influence of torsion resistant bracing systems in laterally loaded buildings. **European Earthquake Engineering**, Vol. IV, No. 3, 3-6, 1990.
7. Andrea Carpinteri, Stress-intensity factors for semi-elliptical surface cracks under tension or bending. **Engineering Fracture Mechanics**, Vol. 38, No. 4-5, 327-334, 1991.
8. Andrea Carpinteri, Energy dissipation in R.C. beams under cyclic loadings. **Engineering Fracture Mechanics**, Vol. 39, No. 2, 177-184, 1991.
9. Andrea Carpinteri, Stress-intensity factors for straight-fronted edge cracks in round bars. **Engineering Fracture Mechanics**, Vol. 42, No. 6, 1035-1040, 1992.
10. Andrea Carpinteri, Crack propagation under cyclic loading. **Fatigue and Fracture of Engineering Materials and Structures**, Vol. 15, No. 4, 365-376, 1992.
11. Andrea Carpinteri, An automated procedure for fatigue crack growth analysis. **Computers and Structures**, Vol. 44, No. 6, 1317-1338, 1992.
12. Andrea Carpinteri, Elliptical-arc surface cracks in round bars. **Fatigue and Fracture of Engineering Materials and Structures**, Vol. 15, No. 11, 1141-1153, 1992.
13. Andrea Carpinteri, Shape change of surface cracks in round bars under cyclic axial loading. **International Journal of Fatigue**, Vol. 15, No. 1, 21-26, 1993.
14. Andrea Carpinteri, Surface flaw stress intensity factor computation with quarter-point elements. **Journal of Strain Analysis for Engineering Design**, Vol. 28, No. 2, 117-123, 1993.
15. Andrea Carpinteri, Carmelo Majorana, Fatigue growth of edge flaws in cylindrical bars. **Strength of Materials**, Vol.27, No.1, 14-22, 1995.
16. Andrea Carpinteri, Carmelo Majorana, Fully three-dimensional thermomechanical analysis of steel welding processes. **Journal of Materials Processing Technology**, Vol. 53, Nos. 1-2, 85-92, 1995.
17. Andrea Carpinteri, Roberto Brighenti, Part-through cracks in round bars under cyclic combined axial and bending loading. **International Journal of Fatigue**, Vol. 18, No. 1, 33-39, 1996.
18. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, Size effect in beams with rounded-tip V-notch. **Materials Science**, Vol.32, No.3, 325-331, 1996.
19. Andrea Carpinteri, Roberto Brighenti, Fatigue propagation of surface flaws in round bars : a three-parameter theoretical model. **Fatigue and Fracture of Engineering Materials and Structures**, Vol.19, No. 12, 1471-1480, 1996.
20. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, Part-through cracks in pipes under cyclic bending. **Nuclear Engineering and Design**, Vol.185, No.1, 1-10, 1998.
21. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, Surface flaws in cylindrical shafts under rotary bending. **Fatigue and Fracture of Engineering Materials and Structures**, Vol. 21, No.9, 1027-1035, 1998.
22. Andrea Carpinteri, Roberto Brighenti, Circumferential surface flaws in pipes under cyclic axial loading. **Engineering Fracture Mechanics**, Vol. 60, No. 4, 383-396, 1998.
23. Andrea Carpinteri, Roberto Brighenti, Stress field near a notch root under pure bending. **Materials Science**, Vol.34, No.5, 43-48, 1998.

24. Andrea Carpinteri, Ewald Macha, Roberto Brighenti, Andrea Spagnoli, Expected principal stress directions under multiaxial random loading - Part I: theoretical aspects of the weight function method. **International Journal of Fatigue**, Vol.21, No.1, 83-88, 1999.
25. Andrea Carpinteri, Roberto Brighenti, Ewald Macha, Andrea Spagnoli, Expected principal stress directions under multiaxial random loading - Part II: numerical simulation and experimental assessment through the weight function method. **International Journal of Fatigue**, Vol.21, No.1, 89-96, 1999.
26. Andrea Carpinteri, Andrea Spagnoli, Multiaxial fatigue fracture criteria for metallic structures. **Journal of Structural Engineering**, Vol.26, No.1, 1-10, 1999.
27. Andrea Carpinteri, Roberto Brighenti, A three-parameter model for fatigue behaviour of circumferential surface flaws in pipes. **International Journal of Mechanical Sciences**, Vol.42, No.7, 1255-1269, 2000.
28. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, A fracture plane approach in multiaxial high-cycle fatigue of metals. **Fatigue and Fracture of Engineering Materials and Structures**, Vol.23, No.4, 355-364, 2000.
29. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, Fatigue growth simulation of part-through flaws in thick-walled pipes under rotary bending. **International Journal of Fatigue**, Vol.22, No.1, 1-9, 2000.
30. Andrea Carpinteri, Roberto Brighenti, Andrea Spagnoli, External surface cracks in shells under cyclic internal pressure. **Fatigue and Fracture of Engineering Materials and Structures**, Vol.23, No.6, 467-476, 2000.
31. Andrea Carpinteri, Andrea Spagnoli, Multiaxial high-cycle fatigue criterion for hard metals. **International Journal of Fatigue**, Vol.23, No.2, 135-145, 2001.
32. Andrea Carpinteri, Andrea Spagnoli, Sabrina Vantadori, An approach to size effect in fatigue of metals using fractal theories. **Fatigue and Fracture of Engineering Materials and Structures**, Vol.25, No.7, 619-627, 2002.
33. Andrea Carpinteri, Aleksander Karolczuk, Ewald Macha, Sabrina Vantadori, Expected position of the fatigue fracture plane by using the weighted mean principal Euler angles. **International Journal of Fracture**, Vol.115, No.1, 87-99, 2002.
34. Andrea Carpinteri, Roberto Brighenti, Sabrina Vantadori, Circumferentially notched pipe with an external surface crack under complex loading. **International Journal of Mechanical Sciences**, Vol.45, No.12, 1929-1947, 2003.
35. Andrea Carpinteri, Andrea Spagnoli, Sabrina Vantadori, A multiaxial fatigue criterion for random loading. **Fatigue and Fracture of Engineering Materials and Structures, Special Issue**, Vol.26, No.6, 515-522, 2003.
36. Andrea Carpinteri, Roberto Brighenti, Sabrina Vantadori, A numerical analysis on the interaction of twin coplanar flaws. **Engineering Fracture Mechanics, Special Issue on Advances in Fracture and Damage Mechanics**, Vol.71, No.4-6, 485-499, 2004.
37. Andrea Carpinteri, Andrea Spagnoli, A fractal analysis of size effect on fatigue crack growth. **International Journal of Fatigue**, Vol.26, No.2, 125-133, 2004.
38. Andrea Carpinteri, Andrea Spagnoli, Sabrina Vantadori, A fracture mechanics model for a composite beam with multiple reinforcements under cyclic bending. **International Journal of Solids and Structures**, Vol.41, No.20, 5499-5515, 2004.
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Prof. Ing. Andrea Carpinteri