

# Alessandro Della Corte

Curriculum Vitae senza dati

## Dati personali:

**Nome:** Alessandro

**Cognome:** Della Corte

## Istruzione:

- Laurea in Matematica (v.o.)  
110/110 *cum laude*  
Università degli studi di Napoli Federico I  
Tesi in Geometria Differenziale  
Titolo: Il teorema di Whitney e il suo significato  
Relatore: Alessandro De Paris
- Diploma di Pianoforte presso: Conservatorio S. Cecilia, Roma

## Titoli Accademici:

- Dottorato di Ricerca in Meccanica Teorica e Applicata  
In cotutela tra Sapienza Università di Roma e Université de Toulon (Francia). Giudizio: *cum laude*.

Tesi di Dottorato in Meccanica dei Continui, Gamma-convergenza, Calcolo delle Variazioni  
Titolo della Tesi: *Lattice structures with pivoted beams: rigorous homogenization and nonlinear elasticity results*.

Supervisor:

Prof. Francesco dell'Isola (DISG, Sapienza Università di Roma).

Prof. Pierre Seppecher (Institut de Mathématiques, Université de Toulon, Francia).

- Abilitazione Scientifica Nazionale al ruolo di Professore Associato, settore concorsuale 01/A4  
- Fisica Matematica (valida fino al 12/07/2024).

## Esperienze di lavoro e di ricerca:

- 11/2011 - 06/2013:** Cooperazione come consulente per la biomatematica con il gruppo diretto dal Dr. Andrea Savarino, Dipartimento di Malattie Infettive, Parassitarie e Immunomediate, Istituto Superiore di Sanità, Roma.
- 01/2012 - 06/2016:** Cooperazione con De Agostini Scuola S.P.A.
- 2015/2016:** Tutoraggio per studenti nell'ambito del corso di Scienza delle Costruzioni, Dipartimento di Ingegneria Strutturale e Geotecnica, Sapienza Università di Roma.
- 07/2017 – 02/2018:** Corso di Fondamenti di Matematica e Meccanica Analitica (*Foundations of Mathematics and Analytical Mechanics*), Faculty of Materials Science and Engineering, Warsaw University of

Technology.

- 2017/2018 (II semestre):** Corso di Matematica Applicata, Laurea triennale in Ingegneria Energetica, Sapienza Università di Roma.
- 02/2018 - 02/2019** Assegnista di Ricerca presso: International Research Center on the Mathematics and Mechanics of Complex Systems (M&MoCS), Università dell'Aquila.
- 2018/2019 (II semestre):** Corso di Matematica 2, Laurea triennale in Chimica, Università degli Studi di Camerino.
- 05/2019 - presente:** Borsista presso: Scuola di Scienze e Tecnologie (Sezione di Matematica), Università di Camerino.

### **Attuali aree di ricerca:**

- Calcolo delle Variazioni: metodi diretti, problem di regolarità, problem non convessi.  
In collaborazione con Pierre Seppecher (IMATH, Université de Toulon, France) e Jean-Jacques Alibert (IMATH, Université de Toulon, France).
- Gamma-convergenza: convergenza di funzionali di misura, omogeneizzazione di strutture elastiche periodiche.  
In collaborazione con Pierre Seppecher (IMATH, Université de Toulon, France) e Jean-Jacques Alibert (IMATH, Université de Toulon, France).
- Sistemi dinamici: dinamica simbolica, problemi particolari in combinatoria delle parole.
- Sistemi dinamici: gruppo delle riflessioni di triangoli generici sferici e iperbolici.
- Robotica degli sciame: progettazione di algoritmi per il controllo di sistemi multi-agenti.  
Supervisione di studenti dell'Isfahan University of Technology, Iran.

### **Altri interessi di ricerca:**

- Meccanica del continuo (elasticità non lineare, continui generalizzati).
- Modellizzazione matematica di sistemi biologici (interazione tra HIV e sistema immunitario, meccanica dell'osso e dinamica delle popolazioni cellulari ossee).
- Fondamenti della matematica, Epistemologia, Storia della Scienza.

### **Abilità:**

Vasta esperienza nell'elaborazione e redazione di progetti di ricerca (COST Actions, ERC, NSF projects, PRIN, TWINNING, PON-*Dottorati a carattere industriale*).

In particolare, ADC ha contribuito all'elaborazione e alla stesura dei seguenti progetti di ricerca finanziati: PON 2016 (*Metamaterials for orthopedics: developing new devices and mathematical models for prognosis*), NSF 2017 (*Granular Micromechanics Leading to Novel Micromorphic Continua –Theory and Experiments*).

*Maestro della Federazione Scacchistica Italiana*, miglior punteggio internazionale FIDE: 2291 (2012), n.85 in Italia.

### **Conoscenze linguistiche:**

Italiano (madrelingua), Inglese (livello C2), Francese (livello B2).

## Pubblicazioni Scientifiche

### Fonte: Scopus

1. Della Corte, A., dell'Isola, F., Esposito, R., Pulvirenti, M.  
Equilibria of a clamped Euler beam (*Elastica*) with distributed load: Large deformations  
(2017) *Mathematical Models and Methods in Applied Sciences*, 27 (8), pp. 1391-1421.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020727945&doi=10.1142%2fS0218202517500221&partnerID=40&md5=c4913faf64eae4efc5948e121c2b763>

DOI: 10.1142/S0218202517500221

DOCUMENT TYPE: Article

SOURCE: Scopus

2. Alibert, J.-J., Della Corte, A., Giorgio, I., Battista, A.  
Extensional *Elastica* in large deformation as  $\Gamma$ -limit of a discrete 1D mechanical system  
(2017) *Zeitschrift für Angewandte Mathematik und Physik*, 68 (2), art. no. 42, . Cited 1 time.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014618346&doi=10.1007%2fs00033-017-0785-9&partnerID=40&md5=db90eed1a5d115001c19562266c2a7a2>

DOI: 10.1007/s00033-017-0785-9

DOCUMENT TYPE: Article

SOURCE: Scopus

3. dell'Isola, F., Cuomo, M., Greco, L., Della Corte, A.  
Bias extension test for pantographic sheets: numerical simulations based on second gradient shear energies  
(2017) *Journal of Engineering Mathematics*, 103 (1), pp. 127-157. Cited 1 time.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979547586&doi=10.1007%2fs10665-016-9865-7&partnerID=40&md5=8213a70b68630e4f2cd463cefdb8dd83>

DOI: 10.1007/s10665-016-9865-7

DOCUMENT TYPE: Article

SOURCE: Scopus

4. Giorgio, I., Della Corte, A., dell'Isola, F.  
Dynamics of 1D nonlinear pantographic continua  
(2017) *Nonlinear Dynamics*, 88 (1), pp. 21-31.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000613339&doi=10.1007%2fs11071-016-3228-9&partnerID=40&md5=3006af1949194cfbe4f2faea3c4dc028>

DOI: 10.1007/s11071-016-3228-9

DOCUMENT TYPE: Article

SOURCE: Scopus

5. Placidi, L., Giorgio, I., Della Corte, A., Scerrato, D.  
Euromech 563 Cisterna di Latina 17-21 March 2014 Generalized continua and their applications to the design of composites and metamaterials: A review of presentations and discussions  
(2017) *Mathematics and Mechanics of Solids*, 22 (2), pp. 144-157.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011617667&doi=10.1177%2f1081286515576948&partnerID=40&md5=cdebf0b46835595d>

8ba6f1c04fa96631

DOI: 10.1177/1081286515576948

DOCUMENT TYPE: Review

SOURCE: Scopus

6. Della Corte, A., Battista, A., dell'Isola, F., Giorgio, I.

Modeling deformable bodies using discrete systems with centroid-based propagating interaction: Fracture and crack evolution

(2017) *Advanced Structured Materials*, 69, pp. 59-88. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015977282&doi=10.1007%2f978-981-10-3764-1\\_5&partnerID=40&md5=7599fed0bfb72442a17fcf406d383a02](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015977282&doi=10.1007%2f978-981-10-3764-1_5&partnerID=40&md5=7599fed0bfb72442a17fcf406d383a02)

DOI: 10.1007/978-981-10-3764-1\_5

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

7. Alibert, J.-J., Della Corte, A., Seppecher, P.

Convergence of Hencky-type discrete beam model to euler inextensible elastica in large deformation: Rigorous proof

(2017) *Advanced Structured Materials*, 69, pp. 1-12. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015873417&doi=10.1007%2f978-981-10-3764-1\\_1&partnerID=40&md5=dcfa37c122065e97d28eb18a33153e8b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015873417&doi=10.1007%2f978-981-10-3764-1_1&partnerID=40&md5=dcfa37c122065e97d28eb18a33153e8b)

DOI: 10.1007/978-981-10-3764-1\_1

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

8. Placidi, L., Barchiesi, E., Della Corte, A.

Identification of two-dimensional pantographic structures with a linear d4 orthotropic second gradient elastic model accounting for external bulk double forces

(2017) *Advanced Structured Materials*, 69, pp. 211-232.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015810585&doi=10.1007%2f978-981-10-3764-1\\_14&partnerID=40&md5=09d6552d951a16162d9d165b62f7e0c7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015810585&doi=10.1007%2f978-981-10-3764-1_14&partnerID=40&md5=09d6552d951a16162d9d165b62f7e0c7)

DOI: 10.1007/978-981-10-3764-1\_14

DOCUMENT TYPE: Conference Paper

SOURCE: Scopus

9. Bersani, A.M., Della Corte, A., Piccardo, G., Rizzi, N.L.

An explicit solution for the dynamics of a taut string of finite length carrying a traveling mass: the subsonic case

(2016) *Zeitschrift fur Angewandte Mathematik und Physik*, 67 (4), art. no. 108, . Cited 2 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982094882&doi=10.1007%2fs00033-016-0703-6&partnerID=40&md5=2d60e880270b3399c0a19a6c2059876c>

DOI: 10.1007/s00033-016-0703-6

DOCUMENT TYPE: Article

SOURCE: Scopus

10. Giorgio, I., Della Corte, A., dell'Isola, F., Steigmann, D.J.

Buckling modes in pantographic lattices

(2016) *Comptes Rendus - Mecanique*, 344 (7), pp. 487-501. Cited 14 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961997857&doi=10.1016%2fj.crme.2016.02.009&partnerID=40&md5=1696a2555ba6a4dca5ef1a1890297647>

DOI: 10.1016/j.crme.2016.02.009  
DOCUMENT TYPE: Article  
SOURCE: Scopus

11. Scerrato, D., Giorgio, I., Della Corte, A., Madeo, A., Dowling, N.E., Darve, F.  
Towards the design of an enriched concrete with enhanced dissipation performances  
(2016) *Cement and Concrete Research*, 84, pp. 48-61. Cited 8 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961743126&doi=10.1016%2fj.cemconres.2016.03.002&partnerID=40&md5=35e0cee17541a9b03871078b0cb72871>

DOI: 10.1016/j.cemconres.2016.03.002  
DOCUMENT TYPE: Article  
SOURCE: Scopus

12. dell'Isola, F., Della Corte, A., Esposito, R., Russo, L.  
Some cases of unrecognized transmission of scientific knowledge: From antiquity to gabrio piola's peridynamics and generalized continuum theories  
(2016) *Advanced Structured Materials*, 42, pp. 77-128. Cited 3 times.  
[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964394248&doi=10.1007%2f978-3-319-31721-2\\_5&partnerID=40&md5=873c56f93872691794936e60c949e723](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964394248&doi=10.1007%2f978-3-319-31721-2_5&partnerID=40&md5=873c56f93872691794936e60c949e723)

DOI: 10.1007/978-3-319-31721-2\_5  
DOCUMENT TYPE: Book Chapter  
SOURCE: Scopus

13. dell'Isola, F., Della Corte, A., Giorgio, I., Scerrato, D.  
Pantographic 2D sheets: Discussion of some numerical investigations and potential applications  
(2016) *International Journal of Non-Linear Mechanics*, 80, pp. 200-208. Cited 15 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949035361&doi=10.1016%2fj.ijnonlinmec.2015.10.010&partnerID=40&md5=eb979e4e9bb5db1c9b2ddadef2adae5d>

DOI: 10.1016/j.ijnonlinmec.2015.10.010  
DOCUMENT TYPE: Article  
SOURCE: Scopus

14. Della Corte, A., Battista, A., dell'isola, F.  
Referential description of the evolution of a 2D swarm of robots interacting with the closer neighbors: Perspectives of continuum modeling via higher gradient continua  
(2016) *International Journal of Non-Linear Mechanics*, 80, pp. 209-220. Cited 12 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941000328&doi=10.1016%2fj.ijnonlinmec.2015.06.016&partnerID=40&md5=cdb32b7de737a8b235e5db5fd3c426f3>

DOI: 10.1016/j.ijnonlinmec.2015.06.016  
DOCUMENT TYPE: Article  
SOURCE: Scopus

15. dell'Isola, F., Della Corte, A., Greco, L., Luongo, A.  
Plane bias extension test for a continuum with two inextensible families of fibers: A variational treatment with Lagrange multipliers and a perturbation solution  
(2016) *International Journal of Solids and Structures*, 81, pp. 1-12. Cited 23 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956614739&doi=10.1016%2fj.ijsolstr.2015.08.029&partnerID=40&md5=9b61d09507a940>

9e8faad1756704afab

DOI: 10.1016/j.ijsolstr.2015.08.029

DOCUMENT TYPE: Article

SOURCE: Scopus

16. Enakoutsa, K., Della Corte, A., Giorgio, I.

A model for elastic flexoelectric materials including strain gradient effects

(2016) *Mathematics and Mechanics of Solids*, 21 (2), pp. 242-254. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952360216&doi=10.1177%2f1081286515588638&partnerID=40&md5=8f0df4b64d439c99cdfaa3e723934308)

[84952360216&doi=10.1177%2f1081286515588638&partnerID=40&md5=8f0df4b64d439c99cdfaa3e723934308](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952360216&doi=10.1177%2f1081286515588638&partnerID=40&md5=8f0df4b64d439c99cdfaa3e723934308)

DOI: 10.1177/1081286515588638

DOCUMENT TYPE: Article

SOURCE: Scopus

17. Berezovski, A., Giorgio, I., Della Corte, A.

Interfaces in micromorphic materials: Wave transmission and reflection with numerical simulations

(2016) *Mathematics and Mechanics of Solids*, 21 (1), pp. 37-51. Cited 11 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956683915&doi=10.1177%2f1081286515572244&partnerID=40&md5=1246ed41232ab34ae3614526453d21f9)

[84956683915&doi=10.1177%2f1081286515572244&partnerID=40&md5=1246ed41232ab34ae3614526453d21f9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956683915&doi=10.1177%2f1081286515572244&partnerID=40&md5=1246ed41232ab34ae3614526453d21f9)

DOI: 10.1177/1081286515572244

DOCUMENT TYPE: Article

SOURCE: Scopus

18. Abd-Alla, A.N., Alshaikh, F., Giorgio, I., Della Corte, A.

A mathematical model for longitudinal wave propagation in a magnetoelastic hollow circular cylinder of anisotropic material under the influence of initial hydrostatic stress

(2016) *Mathematics and Mechanics of Solids*, 21 (1), pp. 104-118. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961242300&doi=10.1177%2f1081286515582883&partnerID=40&md5=9f7dcd5c1a824cc8c80631461f7aa2e5)

[84961242300&doi=10.1177%2f1081286515582883&partnerID=40&md5=9f7dcd5c1a824cc8c80631461f7aa2e5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961242300&doi=10.1177%2f1081286515582883&partnerID=40&md5=9f7dcd5c1a824cc8c80631461f7aa2e5)

DOI: 10.1177/1081286515582883

DOCUMENT TYPE: Article

SOURCE: Scopus

19. Placidi, L., Andreaus, U., Corte, A.D., Lekszycki, T.

Gedanken experiments for the determination of two-dimensional linear second gradient elasticity coefficients

(2015) *Zeitschrift fur Angewandte Mathematik und Physik*, 66 (6), pp. 3699-3725. Cited 30 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948714728&doi=10.1007%2fs00033-015-0588-9&partnerID=40&md5=9536e4a8e8f708ab9900fbb4e58fc3d4)

[84948714728&doi=10.1007%2fs00033-015-0588-9&partnerID=40&md5=9536e4a8e8f708ab9900fbb4e58fc3d4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948714728&doi=10.1007%2fs00033-015-0588-9&partnerID=40&md5=9536e4a8e8f708ab9900fbb4e58fc3d4)

DOI: 10.1007/s00033-015-0588-9

DOCUMENT TYPE: Article

SOURCE: Scopus

20. dell'Isola, F., Seppecher, P., Della Corte, A.

The postulations á la D'Alembert and á la Cauchy for higher gradient continuum theories are equivalent: A review of existing results

(2015) Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 471 (2183), art. no. 20150415, . Cited 24 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948799011&doi=10.1098%2frspa.2015.0415&partnerID=40&md5=a7a9308e28a16a98c7035619e3206e28>

DOI: 10.1098/rspa.2015.0415  
DOCUMENT TYPE: Review  
SOURCE: Scopus

21. dell'Isola, F., Steigmann, D., Della Corte, A.  
Synthesis of Fibrous Complex Structures: Designing Microstructure to Deliver Targeted Macroscale Response  
(2015) Applied Mechanics Reviews, 67 (6), art. no. 060804, . Cited 38 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954306123&doi=10.1115%2f1.4032206&partnerID=40&md5=5cd626778d5169fb1ab8adc43795f8fc>

DOI: 10.1115/1.4032206  
DOCUMENT TYPE: Article  
SOURCE: Scopus

22. Alibert, J.-J., Della Corte, A.  
Second-gradient continua as homogenized limit of pantographic microstructured plates: a rigorous proof  
(2015) Zeitschrift fur Angewandte Mathematik und Physik, 66 (5), pp. 2855-2870. Cited 51 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944355659&doi=10.1007%2fs00033-015-0526-x&partnerID=40&md5=98412938e2954c6328b134871d3440f5>

DOI: 10.1007/s00033-015-0526-x  
DOCUMENT TYPE: Article  
SOURCE: Scopus

23. Giorgio, I., Galantucci, L., Della Corte, A., Del Vescovo, D.  
Piezo-electromechanical smart materials with distributed arrays of piezoelectric transducers: Current and upcoming applications  
(2015) International Journal of Applied Electromagnetics and Mechanics, 47 (4), pp. 1051-1084. Cited 23 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84931471904&doi=10.3233%2fJAE-140148&partnerID=40&md5=9f53c6934db5701ce738378841fd4705>

DOI: 10.3233/JAE-140148  
DOCUMENT TYPE: Review  
SOURCE: Scopus

24. Madeo, A., Della Corte, A., Greco, L., Neff, P.  
Wave propagation in pantographic 2D lattices with internal discontinuities [Lainelevis kahemõõtmelises sisemiste katkevustega pantograafilises võres]  
(2015) Proceedings of the Estonian Academy of Sciences, 64 (3), pp. 325-330. Cited 14 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940502972&doi=10.3176%2fproc.2015.3S.01&partnerID=40&md5=1e6075291fd1c4275d2e90913066b66a>

DOI: 10.3176/proc.2015.3S.01  
DOCUMENT TYPE: Article



SOURCE: Scopus

25. Scerrato, D., Giorgio, I., Della Corte, A., Madeo, A., Limam, A.  
A micro-structural model for dissipation phenomena in the concrete  
(2015) *International Journal for Numerical and Analytical Methods in Geomechanics*, 39 (18),  
pp. 2037-2052. Cited 18 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944510729&doi=10.1002%2fnag.2394&partnerID=40&md5=679977b7bf3f0310c7144421082c34b8>

DOI: 10.1002/nag.2394

DOCUMENT TYPE: Article

SOURCE: Scopus

26. Shytaj, I.L., Chirullo, B., Wagner, W., Ferrari, M.G., Sgarbanti, R., Della Corte, A.,  
LaBranche, C., Lopalco, L., Palamara, A.T., Montefiori, D., Lewis, M.G., Garaci, E.,  
Savarino, A.  
Investigational treatment suspension and enhanced cell-mediated immunity at rebound  
followed by drug-free remission of simian AIDS  
(2013) *Retrovirology*, 10 (1), art. no. 71, . Cited 17 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84880096840&doi=10.1186%2f1742-4690-10-71&partnerID=40&md5=8263a24da7d2bca1e5a66f315dc34faa>

DOI: 10.1186/1742-4690-10-71

DOCUMENT TYPE: Article

SOURCE: Scopus

27. Shytaj, I.L., Norelli, S., Chirullo, B., Della Corte, A., Collins, M., Yalley-Ogunro, J.,  
Greenhouse, J., Iraci, N., Acosta, E.P., Barreca, M.L., Lewis, M.G., Savarino, A.  
A highly intensified ART regimen induces long-term viral suppression and restriction of the  
viral reservoir in a simian AIDS model  
(2012) *PLoS Pathogens*, 8 (6), art. no. e1002774, . Cited 38 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84864051807&doi=10.1371%2fjournal.ppat.1002774&partnerID=40&md5=f214e1bb40c4c29cd4220153025c7381>

DOI: 10.1371/journal.ppat.1002774

DOCUMENT TYPE: Article

SOURCE: Scopus

### **Articoli scientifici ancora non indicizzati su Scopus:**

28. Giorgio, I., Della Corte, A., & Del Vescovo, D. (2017). Modelling flexible multi-link robots for vibration control: Numerical simulations and real-time experiments. *Mathematics and Mechanics of Solids*, DOI: 1081286517729868.

29. Giorgio, I., Andreaus, U., Lekszycki, T., & Della Corte, A. (2017). The influence of different geometries of matrix/scaffold on the remodeling process of a bone and bioresorbable material mixture with voids. *Mathematics and Mechanics of Solids*, 22(5), 969-987.

30. Rapisarda, A. C., Della Corte, A., Drobnicki, R., Di Cosmo, F., & Rosa, L. (2019). A model for bone mechanics and remodeling including cell populations dynamics. *Zeitschrift für angewandte Mathematik und Physik*, 70(1), 9.

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- A property of straight lines modeled by a Fredholm integral equation with discontinuous kernel.
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### Libri:

- *Giacomo Leopardi. Il pensiero scientifico.* Firenze Athenaeum, 2008.
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### Altre collaborazioni scientifiche:

Dal 07/2017

Cooperazione come coautore a:  
*Encyclopedia of Continuum Mechanics*, a cura di Holm Altenbach e Andreas Öchsner, Springer-Verlag, 2018.

### Attività editoriale e di reviewer:

ADC è membro dell'Editorial Board di:

- Mathematical Problems in Engineering.

ADC ha svolto attività di reviewer per le seguenti riviste scientifiche:

- Proceedings of the Royal Society – A
- Mathematics and Mechanics of Solids
- Mathematics and Mechanics of Complex Systems
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- Research in Nondestructive Evaluation
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- Mathematical Problems in Engineering

### **Seminari, convegni e partecipazioni:**

- Della Corte, A., A Model for internal friction in standard and enriched concrete (*International Conference on Porous Media*, 18-21/05/2015, Padova, Italy)
- Della Corte, A., Fracture and spontaneous crack formation modeled with lattice systems with finite-range interaction. (*Regularised Models of Brittle Fracture*, 02/05/2016, University Pierre et Marie Curie in Central Paris, Paris, France)
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- Ciclo di lezioni (3 giorni) a studenti della Warsaw University of Technology nell'ambito del corso *Introduction to Analytical Continuum Mechanics and Computational Mechanics*. Tema: *Foundations of Mathematics and Set Theory*. 17,19,20/7/2017, International Research Center on Mathematics and Mechanics of Complex Systems, Giuliano di Roma (FR).
- Seminario presso: Dipartimento di Matematica, Università di Bologna, su: *Euler and Timoshenko beam models under distributed load in geometrically nonlinear deformations: wellposedness, regularity of minimizers and stability results*. Bologna, 09/10/2017.
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- Seminario (3 ore) su: Giacomo Leopardi – il pensiero scientifico ed epistemologico.

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<http://www.linceiscuola.it/files/2017/12/frosinone-latina-italiano-matematica-scienze-2017-2018.pdf>

- Membro del Local Scientific Committee di: 5<sup>th</sup> International Conference on Material Modeling (ICMM5), 14-16 Giugno, 2017, Roma.
- Co-responsabile della sezione *Matematica e realtà* nell'ambito di: *I Lincei per la scuola* 2018/2019, organizzato da: *Accademia Nazionale dei Lincei, Gran Sasso Science Institute* e *M&MoCS*.