



List of publications

https://www.dropbox.com/home/ARTICOLI_Patrizia_%20intestati/PUBBLICAZIONI_PatriziaTrovalusci

A. Journal Articles

[A1]	R. Masiani, N. Rizzi, P. Trovalusci, Masonry as structured continuum, <i>Meccanica</i> , 30 , 673-683, 1995. (DOI: 10.1007/BF00986573; WOS:A1995TL29400002; Scopus: 2-s2.0-0000741917).
[A2]	R. Masiani, P. Trovalusci, Cosserat and Cauchy materials as continuum models of brick masonry, <i>Meccanica</i> , 31 , 421-432 1996. (DOI:10.1007/BF00429930; WOS:A1996VD52700004; Scopus: 2-s2.0-0030214344).
[A3]	P. Trovalusci, R. Masiani, Strain rates of micropolar continua equivalent to discrete systems, <i>Meccanica</i> , 32(6) , 581-583, 1997, (DOI:10.1023/A:1004252426652.; WOS:000071327400011; Scopus:2342646882).
[A4]	C. Baggio, P. Trovalusci, Limit analysis for no-tension and frictional three-dimensional discrete systems, <i>Mechanics of Structures and Machines</i> , 26 (3), 287-304, 1998 (DOI:10.1080/08905459708945496; WOS:000075964000004; Scopus:2-s2.0-0032141962).
[A5]	P. Trovalusci, G. Augusti, A continuum model with microstructure for materials with flaws and inclusions, <i>Journal de Physique IV</i> , Pr8 383-390, 1998. (DOI:10.1051/jp4:1998847; WOS:000077547500048 N.Cit 9(11); Scopus: 2-s2.0-11744307640).
[A6]	P. Trovalusci, R. Masiani, Material symmetries of micropolar continua equivalent to lattices, <i>International Journal of Solids and Structures</i> , 36(14) , 2091-2108, 1999. (DOI:10.1016/S0020-7683(98)00073-0; WOS:000078639000004; Scopus: 2-s2.0-0002317252).
[A7]	P. M. Mariano, P. Trovalusci, Constitutive relations for elastic microcracked bodies: from a lattice model to a multifield continuum description, <i>International Journal of Damage Mechanics</i> , 8 , 153-173, 1999 (DOI:10.1177/105678959900800204; WOS:000208663400003; Scopus:2-s2.0-0033108021).
[A8]	C. Baggio, P. Trovalusci, Collapse behaviour of three-dimensional brick-block systems using non linear programming, <i>Structural Engineering and Mechanics</i> , 10(2) , 181-195, 2000. (WOS:000088722900007; Scopus: 2-2.0-0033714509).
[A9]	G. Rega, P. Trovalusci, Strutturisti-costruttori, strutturisti-matematici e...architetti-strutturisti?, Riflessioni sulle relazioni tra l' "arte del costruire", la meccanica (dei solidi e delle strutture) e la progettazione strutturale nell'architettura, <i>Rassegna di Architettura e Urbanistica</i> , 101/102 , 134-143, 2001.
[A10]	P. Trovalusci, R. Masiani, Non-linear micropolar and classical continua for anisotropic discontinuous materials, <i>International Journal of Solids and Structures</i> , 40(5) , 1281-1297, 2003 (DOI: 10.1016/S0020-7683(02)00584-X; WOS:000181264500012; Scopus:2-s2.0-0037372584).
[A11]	P. Trovalusci, A multiscale continuum for damaged fibre composites, <i>Materials Science Forum</i> , 426-432 ,

	2133-2138, 2003. (DOI: 10.4028/www.scientific.net/MSF.426-432.2133; WOS:000183626400340; Scopus: 2-s2.0-0038677535).
[A12]	P. Trovalusci, R. Masiani, A multi-field model for blocky materials based on multiscale description, <i>International Journal of Solids and Structures</i> , 42 (21-22), 5778-5794, 2005. (DOI: 10.1016/j.ijsolstr.2005.03.027, WOS:000231437200011; Scopus: 2-s2.0-23244457174).
[A13]	V. Sansalone, P. Trovalusci, F. Cleri, Multiscale modelling of composite materials by a multifield finite element method, <i>International Journal for Multiscale Computational Engineering</i> , 3(4), 463-480, 2005. (DOI:10.1615/IntJMultCompEng.v3.i4.20; WOS:000236605800005).
[A14]	V. Sansalone, P. Trovalusci, F. Cleri, Multiscale modelling of materials by a multifield approach: microscopic stress and strain distribution in fiber-matrix composites, <i>Acta Materialia</i> , 54, , 3485-3492, 2006. (DOI: 10.1016/j.actamat.2006.03.041; WOS:000239823800009; Scopus:2-s2.0-33745898253).
[A15]	P. Trovalusci, V. Sansalone, F. Cleri, A multiscale approach for composite materials as multifield continua, <i>Materials Science Forum</i> , 539-543, 2551-2556, 2007 (DOI: 10.4028/www.scientific.net/MSF.539-543.2551; WOS:000245106102069; Scopus:2-s2.0-38349160241).
[A16]	P. Trovalusci, G. Rega, Elastic waves in heterogeneous materials as in multiscale-multifield continua, <i>Proceedings of the Estonian Academy of Sciences Physics, Mathematics</i> , 56(2), 100–107 2007 (WOS:000254909500005; Scopus:2-s2.0-34347379166).
[A17]	V. Sansalone, P. Trovalusci, A numerical investigation of structure-property relations in fibre composite materials, <i>International Journal for Multiscale Computational Engineering</i> , 5(2), 141-152, 2007 (10.1615/IntJMultCompEng.v5.i2.70.; WOS:000249442100008; Scopus:2-s2.0-34548383837).
[A18]	P. Trovalusci, D. Capecchi, G. Ruta, Genesis of the multiscale approach for materials with microstructure, <i>Archive of Applied Mechanics</i> , 79 (11), 981-997, 2009 (DOI: 10.1007/s00419-008-0269-7; WOS:000269845300001 Scopus: 2-s2.0-70349434049).
[A19]	D. Capecchi, G. Ruta, P. Trovalusci, From classical to Voigt's molecular models in elasticity, <i>Archive for History of Exact Sciences</i> , 64, 525-559, 2010. (DOI: 10.1007/s00407-010-0065-y ; WOS:000280917200002; Scopus:2-s2.0-77955841696). Communicated by U. Bottazzini.
[A20]	P. Trovalusci, V. Varano, G. Rega, A generalized continuum formulation for composite materials and wave propagation in a microcracked bar, <i>Journal of Applied Mechanics</i> , 77 (6), 061002-1/112010.(DOI: 10.1115/1.4001639; WOS:000284078500003; Scopus:2-s2.0-78650006705).
[A21]	V. Sansalone, P. Trovalusci, Coupling Continuum and Discrete Models of Materials with Microstructure: a Multiscale Algorithm, <i>Materials Science Forum</i> , 638-642, 2010, 2755-2760 (10.4028/www.scientific.net/MSF.638-642.2755; WOS:000281043801122; Scopus:2-s2.0-75849152952).
[A22]	P. Trovalusci, V. Varano, Microcracked materials as non-simple continua, <i>Materials Science Forum</i> , 638-642, 2749-2754, 2010, (DOI:10.4028/www.scientific.net/MSF.638-642.2749; WOS:000281043801121; Scopus:2-s2.0-5849128830).
[A23]	P. Trovalusci, V. Varano, Multifield continuum simulations for damaged materials: a bar with voids, <i>International Journal for Multiscale Computational Engineering</i> , 9(5), 599-608, 2011. (DOI: 10.1615/IntJMultCompEng.2011002761; WOS:000297823100008; Scopus: 2-s2.0-81255149761).
[A24]	D. Capecchi, G. Ruta, P. Trovalusci, Voigt and Poincaré's mechanistic–energetic approaches to linear elasticity and suggestions for multiscale modelling, <i>Archive of Applied Mechanics</i> , 81(11), 1573-1584, 2011. (DOI: 10.1007/s00419-010-0502-Z; WOS:000296084100005; Scopus: 2-s2.0-82955242523).
[A25]	A. Pau, P. Trovalusci, Block masonry as equivalent micropolar continua: the role of relative rotations, <i>Acta Mechanica</i> , 223 (7), 1455-1471, 2012. (DOI 10.1007/s00707-012-0662-8, WOS:000305679800008; Scopus:2-s2.0-

	84864564118).
[A26]	P. Trovalusci, A. Pau, Derivation of microstructured continua from lattice systems via principle of virtual works. The case of masonry-like materials as micropolar, second gradient and classical continua. <i>Acta Mechanica</i> , 225 (1), 157-177, 2014. (DOI: 10.1007/s00707-013-0936-9, Scopus:2-s2.0-84881093014).
[A27]	P. Trovalusci, M. De Bellis, M. Ostoja-Starzewski, A. Murralli, Particulate random composites homogenized as micropolar materials, <i>Meccanica</i> 49 (11), 2719-2727, 2014. (DOI 10.1007/s11012-014-0031-x, WOS:000344354100012; Scopus: 84864564118).
[A28]	P. Trovalusci, M. Ostoja-Starzewski, M. L. De Bellis, A. Murralli, Scale-dependent homogenization of random composites as micropolar continua, <i>European Journal of Mechanics A/Solids</i> . 49 , 396–407, 2015. (DOI 10.1016/j.euromechsol.2014.08.010, WOS:000346542100034; Scopus:84891862307. Highly Cited Award from ISI-WEB of Knowledge).
[A29]	P. Trovalusci, Nineteenth century molecular models with a glance at modern discrete–continuum theories, <i>Proceedings in Applied Mathematics and Mechanics (PAMM)</i> , 15 , 709-710, 2015 (DOI 10.1002/pamm.201510344, ISSN: 1617-7061).
[A30]	A. Favata, P. Trovalusci, R. Masiani, A multiphysics and multiscale approach for modeling microcracked thermo-diffusive materials, <i>Computational Material Science</i> , 116 , 22-31, 2015. (DOI:10.1016/j.commatsci.2015.10.033; Scopus:2-s2.0-84947345459).
[A31]	P. Trovalusci, M. L. De Bellis, M. Ostoja-Starzewski, A statistically-based homogenization approach for particle random composites as micropolar continua, in H. Altenbach and S. Forest (Eds.), <i>Generalized Continua as Models for Classical and Advanced Materials</i> , <i>Advanced Structured Materials</i> , 42 , 2016. (DOI:10.1007/978-3-319-31721-2_20; Scopus:2-s2.0-84964324463)
[A32]	P. Trovalusci, M.L. De Bellis M.L., L. Leonetti, R. Masiani, A micropolar homogenization approach for random particle-based composites, <i>Meccanica dei Materiali e delle Strutture</i> , VI(1), 243-250, 2017. (ISSN: 2035-679X)
[A33]	F. Greco, L. Leonetti, R. Luciano, P. Trovalusci, Multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints, <i>Composites Part B:Engineering</i> , 118 , 75-95, 2017. (DOI: 10.1016/j.compositesb.2017.03.004; Scopus:2-s2.0-85015703983)
[A34]	P. Trovalusci, M.L. De Bellis, R. Masiani, A multiscale description of particle composites: From lattice microstructures to micropolar continua, <i>Composites Part B: Engineering</i> , 128 , 164-173, 2017. (DOI:10.1016/j.compositesb.2017.06.015; Scopus: 2-s2.0-85024874032)
[A35]	N. Fantuzzi, L. Leonetti, P. Trovalusci, F. Tornabene, Some novel numerical applications of Cosserat continua, <i>International Journal of Computational Methods</i> , 136 , 39-45, 2018 (DOI: 10.1142/S0219876218500548; Scopus:2-s2.0-85031994743).
[A36]	L. Leonetti, F. Greco, P. Trovalusci, R. Luciano, R. Masiani, A multiscale damage analysis of periodic composites using a couple-stress/Cauchy multidomain model: application to masonry structures, <i>Composites Part B: Engineering</i> , 118 , 75-95, 2017. (DOI:10.1016/j.compositesb.2017.12.025; Scopus:2-s2.0-85039699330)
[A37]	E. Reccia, M.L. De Bellis, P. Trovalusci, R. Masiani, Sensitivity to material contrast in homogenization of random particle composites as micropolar continua, <i>Composites Part B: Engineering</i> , 141 , 50-59, 2018. (DOI:10.1016/j.compositesb.2017.10.017; Scopus:2-s2.0-85031994743)
[A38]	E. Reccia, L. Leonetti, P. Trovalusci, A. Cecchi, A multiscale/multidomain model for the failure analysis of masonry walls: a validation with a combined FEM/DEM approach, <i>International Journal for Multiscale Computational Engineering</i> , 16 , 325-343, 2018.
[A39]	M. Pingaro, E. Reccia, P. Trovalusci, R. Masiani, Fast Statistical Homogenization Procedure (FSHP) for particle random composites using Virtual Element Method, <i>Computational Mechanics</i> , 1 , 1-14, 2019. (DOI: 10.1007/s00466-018-1665-7)

[A40]	V. Settimi, P. Trovalusci, Giuseppe Rega Dynamical properties of a composite microcracked bar based on a generalized continuum formulation, <i>Continuum Mechanics and Thermodynamics</i> , 1-18, 2019. (DOI: 10.1007/s00161-019-00761-7)
[A41]	L. Leonetti, N. Fantuzzi, P. Trovalusci, F. Tornabene, Scale Effects in orthotropic composite assemblies as micropolar continua: a comparison between Weak and Strong-Form Finite Element solutions, <i>Materials</i> , 12 (5), 758, 2019. (doi:10.3390/ma12050758)
[A42]	N. Fantuzzi, P. Trovalusci, S. Dharasura, Mechanical behaviour of anisotropic composite materials as micropolar continua, <i>Frontiers</i> , 59 (6), 1-11, 2019 (https://doi.org/10.3389/fmats.2019.00059).
[A43]	M. Tuna, M. Kirca, P. Trovalusci, Deformation of atomic models and their equivalent continuum counterparts using Eringen's two-phase local/nonlocal model, 2019, <i>Mechanics Research Communications</i> , 97 , 26-32, 2019
[A44]	M. Pingaro, E. Reccia, P. Trovalusci, Homogenization of random porous materials with low order Virtual Elements, 2019, <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems Part B: Mechanical Engineering</i> , 2019, 5 / 030905-1, 2019
[A45]	M. Tuna, M., L. Leonetti, P. Trovalusci, M. Kirka, 'Explicit' and 'implicit' non-local scale dependent continuous descriptions for a plate with a circular inclusion in tension, <i>Meccanica</i> (https://doi.org/10.1007/s11012-019-01091-3). 2019.
[A46]	M. Tuna, P. Trovalusci, Scale dependent continuum approaches for discontinuous assemblies: 'explicit' and 'implicit' non-local models", <i>Mechanics Research Communications</i> , 103 , 103461, (https://doi.org/10.1016/j.mechrescom.2019.103461). 2020.
[A47]	N. Fantuzzi, P. Trovalusci, R. Luciano, Multiscale analysis of anisotropic materials with hexagonal microstructure as micro-polar continua, <i>Journal for Multiscale Computational Engineering</i> , x(x): 1–29, 2020. Accepted
[A48]	M. Pepe, M. Pingaro, P. Trovalusci, E. Reccia, L. Leonetti, Micromodels for the in-plane failure analysis of masonry walls: Limit Analysis, FEM and FEM/DEM approaches. <i>Frattura ed Integrità Strutturale</i> , 51 , 504–516. doi: https://doi.org/10.3221/IGF-ESIS.51.38). 2020.

B. Volumes – Monographs - Special Issues

[B1]	P. Trovalusci (Ed.), 'Multiscale Mechanical Modelling of Complex Materials and Engineering Applications', Special Issue of <i>International Journal for Multiscale Computational Engineering</i> , 5 (2), 2007 (http://www.begellhouse.com/journals/61fd1b191cf7e96f,25cc62a120ff4480.html , DOI: 10.1615/IntJMultCompEng.v5.i2; WOS:000249442100001). Autors: P. Trovalusci; M. Ostoja-Starzewski, X. Du, Z.F. Khisaeva, W. Li; K. Sab, J. Dallot, A. Cecchi; V. Sansalone, P. Trovalusci; M.G.D. Geers, R.L.J.M. Ubachs, M. Erinc, M.A. Matin, P.J.G. Schreurs, W.P. Vellinga; V.G. Kouznetsova, M.G.D. Geers; F. Campi, I. Monetto; F. De Angelis; G. Borino, B. Failla, F. Parrinello).
[B2]	P. Trovalusci, M. Ostoja-Starzewski (Eds.), 'Multiscale Mechanical Modelling of Complex Materials and Engineering Applications 2', Special Issue of <i>International Journal for Multiscale Computational Engineering</i> , 5 (9), 2011. (http://www.begellhouse.com/journals/61fd1b191cf7e96f,59ed44ee44c0572b.html , DOI: 10.1615/IntJMultCompEng.2011002870; WOS:000297823100001; Scopus:2-s2.0- 81255188780). Authors: P. Trovalusci, M.O. Starzewski; K. Sab; G. Geymonat, F. Krasucki, S. Hendili, M. Vidrascu;. C. Chesnais, S. Hans, C. Boutin; A. Bacigalupo , L. Gambarotta; M. L. De Bellis, D. Addressi; M. Di Paola, Zingales, P. Trovalusci, V. Varano.
[B3]	P. Trovalusci, B. Schrefler (Eds.), 'Multiscale Modelling for Materials with Internal Length', Special Issue of <i>International Journal for Multiscale Computational Engineering</i> , 10 (6), 2012. (http://www.dl.begellhouse.com/journals/61fd1b191cf7e96f,3089bea11cd334bd.html , DOI: 10.1615/IntJMultCompEng.v10.i6; WOS:000312617700001; Scopus: 2-s2.0-84870218829).

	Authors: P. Trovalusci, B. Schrefler; D. K. Trinh, R. Janicke, N. Auffray, S. Diebels, S. Forest; S. Bargmann, B. Svendsen; D. Grégoire, L. B. Rojas-Solano, G. Pijaudier-Cabot; M. Bongue Boma, L. Sudak, S. Federico; I. Stefanou, J. Sulem; E. Aigner, R. Lackner, J. Eberhardsteiner; D. P. Boso, M. Lefik.
[B4]	T. Sadowski, P. Trovalusci (Eds.), <i>Multiscale Modeling of Complex Materials. Phenomenological, Theoretical and Computational Aspects</i> , Series: 'Courses and Lectures', CISM (International Centre for Mechanical Sciences) 556, Springer, Berlin, 2014, pages 1-278. (ISBN 978-3-7091-1812-2, DOI 10.1007/978-3-7091-1812-2_3). Authors: R. de Borst; G. Del Piero; S. Ghosh; M. Ostojia-Starzewski; T. Sadowski; R. Tarleja; P. Trovalusci.
[B5]	P. Trovalusci, <i>Molecular approaches for multifield continua: origins and current developments</i> . In T. Sadowski, P. Trovalusci (Eds.), 'Multiscale Modeling of Complex Materials: Phenomenological, Theoretical and Computational Aspects', CISM (Int. Centre for Mechanical Sciences) Series, 556, Springer, Berlin, 2014, 211-278. (ISBN 978-3-7091-1811-5, DOI 10.1007/978-3-7091-1812-2).
[B6]	T. Sadowski, P. Trovalusci, B. Schrefler, R. de Borst (Eds.), 'Multiscale and Multiphysics Modelling for Complex Materials', Special Issue of <i>Meccanica</i> , 49 (9), 2014. (DOI 10.1007/s11012-014-0031-x; WOS:000344354100001; Scopus:84912027751). Authors: A. Carpinteri, P. Cornetti, A. Saporita, O. Allix; R. de Borst; V. Petrova, T. Sadowski; V. Burlayenko, T. Sadowski; V. Eremeev; G. Papanicolaou; I. Ertürk, J.A.W. van Dommelen, M.G.D. Geers; J. Füssl, R. Lackner, J. Eberhardsteiner; K. Ammar, B. Appolaire, S. Forest, M. Cottura, Y. Le Bouar, A. Finel, P. Trovalusci, M.L. De Bellis, M. Ostojia-Starzewski, A. Murralli; a. J. M. Ferreira, C. M. C. Roque, J. N. Reddy.
[B7]	P. Trovalusci (Ed.), <i>Materials with Internal Structure. Multiscale and Multifield Modeling and Simulation</i> , Springer Tracts in Mechanical Engineering Series, Springer International Publishing Switzerland, Vol. 18, 2016, Pages 1-131. Invited by Springer. (DOI 10.1007/978-3-319-21494-8; Scopus:s2.0-85027317793; ISSN 2195-9862; 2195-9870 (electronic) ISBN 978-3-319-21493-1; 978-3-319-21494-8 (eBook)). Authors: G. Cailletaud, F. Coudon; R. de Borst, S. May, J. Vignollet; V. Eremeyev; S. Ghosh, P. Chakraborty; X. Li, Y. Liang, Y. Du, B. Schrefler; A. Malyarenko, M. Ostojia-Starzewski; C. R. Picu, S. Soroohan, D. M. Constantinescu, M. A. Soare; P. Trovalusci. http://www.springer.com/us/book/9783319214931 .
[B8]	P. Trovalusci (Lead Guest Editor); F. Portioli, E. Reccia, M. Monaco (co-Eds.), 'Recent Advances in Computational Strategies for Fracture and Damage Detection in Masonry Structures', <i>Fracture and Structural Integrity (FSI)</i> , 14 (51), 2020.
[B9]	P. Trovalusci (Lead Guest Editor); F. Cui (co-Ed) 'Computational Models for "Complex" Materials and Structures', <i>Meccanica</i> , 2019. In press.
[B10]	'Multiscale and Multiphysics Modeling of "Complex" Materials and Engineering Applications', <i>International Journal for Multiscale Computational Engineering</i> , 2019. In press.
[B11]	P. Trovalusci (Lead Guest Editor), G. Maier (Ed.), V. Gattulli (co-Ed.), 'Computational Optimization for Structural Engineering Applications', <i>Journal of Optimization Theory and Applications (JOTA)</i> . Forthcoming.

C. Articles in Books and Refereed Conference Papers

[C1]	P. Trovalusci, Prevenzione sismica nei restauri ottocenteschi dell'Anfiteatro Flavio, Parte II: Analisi strutturale e formulazione matematica, in <i>Roma problemi dell'area archeologica centrale</i> (Boll. Biblioteca Fac. Arch. Univ. Roma 'La Sapienza', 40- 41), Roma, Gangemi, 1989, 57-75 (ISBN: 887448304X).
[C2]	C. Baggio, P. Trovalusci, Discrete models for jointed block masonry walls, in A. A. Hamid & H. G. Harris (eds.), <i>The Sixth North American Masonry Conference</i> , Vol. 2, Lancaster (PA), Technomic Publishing Co., 1993, 939-949. (Refereed conference paper. Presenting author). (ISBN: 0-8407-5159-1; WOS:A1996VD52700004 N.Cit 14).
[C3]	P. Trovalusci, Sulla modellazione meccanica dei solidi murari, in A. Giuffré (Ed.), <i>Sicurezza e conservazione dei centri storici. Il caso di Ortigia</i> , Bari, Laterza, 1993 (ISBN: 258-273. 8842042501).
[C4]	G. Augusti, S. D'Agostino, A. Giuffré, M. Lanni, P. Trovalusci, Problemi statici, in M. Cipriani, <i>L'Athenaion di Paestum tra studio e restauro</i> , Catalogo mostra documentaria, Museo Archeologico Nazionale, Paestum, 1993, 37-39.

[C5]	R. Masiani, P. Trovalusci, Size effects in continuum modelling of brick masonry, in J. Middleton & G. N. Pande (eds.), <i>Computer Methods in Structural Masonry -3</i> , Swansea (UK), BIJ, 1995, 42-51. (Presenting author). (ISBN: 1874149038).
[C6]	C. Baggio, P. Trovalusci, Stone assemblies under in-plane actions. Comparison between non linear discrete approaches, in J. Middleton & G. N. Pande (Eds.), <i>Computer Methods in Structural Masonry -3</i> , Swansea (UK), BIJ, 1995, 184-193. (ISBN: 1874149038).
[C7]	P. M. Mariano, P. Trovalusci, Inertial effects in elastic microcracked bodies, in L. Frýba e J. Nàprstek (Eds.), <i>Structural Dynamics Eurodyn '99</i> , Vol. 1, Prague, Balkema, 1999, 501-506. (Presenting author). (ISBN: 90-5809-056-6, WOS:000081131900077).
[C8]	R. Masiani, P. Trovalusci, Micropolar and classical non-linear constitutive models for block materials, in T. Hughes e G. N. Pande (eds.), <i>Computer Methods in Structural Masonry-5</i> , Swansea (UK), Computers & Geotechnics Ltd, 2001, 239-246. (ISBN: 0 9510380 2 8).
[C9]	G. Rega, P. Trovalusci, Structuristes-constructeurs, structuristes-mathématiciens et...architectes-structuristes?, in A. Becchi, M., Corradi, F. Foce, O. Pedemonte (Eds.) <i>Towards a History of Construction. Dedicated to Edoardo Benvenuto</i> , Basel, Birkhauser, 2002, 455-473. (Selected conference paper). (ISBN: 3-7643-6880-2, WOS:000231498500029)
[C10]	G. Rega, P. Trovalusci, On the model of academic education in structural architecture, in F. Levi, M. Chiorino & C. Bertolini Cestari (Eds.), <i>Eduardo Torroja: from the philosophy of structures to the art and science of building</i> , Torino, Franco Angeli, 2002, 455-473. (Selected conference paper). (ISBN: 8846444930; WOS:000231498500029).
[C11]	P. Trovalusci, C. Baggio, An optimisation algorithm for the collapse detection of stone masonry structures, <i>Advances in Architecture Series</i> , Vol 15, C. A. Brebbia (ed.) 'Structural Studies, Repairs and Maintenance of Heritage Architecture VIII (STREMAH 2003)', Ashurst (UK), WIT Press, 2003, 473-481. (Presenting author). (ISSN: 1368-1435; ISBN: 1-85312-968-2, WOS:00018443510004; Scopus: 003042582141).
[C12]	P. Trovalusci, A constitutive model for fibre composite materials based on microscopic descriptions, in D. Bruno, G. Spadea, R. & N. Swamy (eds.) <i>Composites in Construction</i> , Cosenza, Editoriale Bios, 2003, 653-656. (Presenting author). (ISBN: 8877403586).
[C13]	P. Trovalusci, Fabbriche murarie d'interesse storico e monumentale: modelli per l'analisi strutturale, in P. Rocchi (ed.) <i>Trattato sul Consolidamento</i> , Roma, Mancosu, 2003, 54-57. (ISBN: 9788877588197).
[C14]	P. Trovalusci, C. Baggio, A computer code for the collapse detection of three-dimensional masonry structures, in T. Hughes and G. N. Pande (eds.), <i>Computer Methods in Structural Masonry-6</i> , Swansea (UK), Computers & Geotechnics Ltd, Swansea (UK), 2004, 82-89. (Presenting author). (ISBN: 9780951038031).
[C15]	P. Trovalusci, G. Ruta, D. Capecchi, Il modello molecolare di Voigt. In: <i>Da Archimede a Majorana: la fisica nel suo divenire</i> , Guaraldi, Roma, 2006, 183-194. (ISBN: 9788880493495).
[C16]	P. Trovalusci, Multiscale mechanical modelling of complex materials and engineering applications. Foreword to the Special Issue, of <i>International Journal for Multiscale Computational Engineering</i> , 5(2), 2007, pages vii-ix (ISBN: 9780415492492 WOS:000249442100001).
[C17]	P. Trovalusci, V. Sansalone, Multifield continuum modelling for materials with lattice microstructure, In <i>Continuum Models and Discrete Systems (CMD511)</i> , D. Jeulin and S. Forest (Eds.), Paris, Les Presses de l'École des Mines de Paris, 2008, 351-356. (Invited). (ISBN: 9782356710000).

[C18]	P. Trovalusci, R. Panei, Towards an ethic of construction: The structural conception and the influence of mathematical language in architectural design in P. Cruz (Ed.), <i>Structures and Architecture</i> , London (UK), CRC Press/Balkema, 2010, 53-54; on-line, 180-187. (<u>Invited</u>). (ISBN: 9780415492492; Scopus:2-s2.0-2-s2.0-84856682743).
[C19]	P. Trovalusci, A. Tinelli, Structural optimization vs. shape design, in P. Cruz (ed.), <i>Structures and Architecture</i> , London (UK), CRC Press/Balkema, 37-38; on-line, 1116-123. (<u>Invited</u>). (ISBN: 9780415492492, Scopus: 84856683983).
[C20]	P. Trovalusci, M. Ostoja-Starzewski, Multiscale Mechanical Modelling of Complex Materials and Engineering Applications 2, Foreword to the Special Issue of <i>International Journal for Multiscale Computational Engineering</i> , 9 (5), 2011, pages vii-ix. (http://www.dl.begellhouse.com/journals/61fd1b191cf7e96f,59ed44ee44c0572b.html , DOI:10.1615/IntJMCompEng.2011002870 WOS:000297823100001; Scopus: 2-s2.0- 81255188780).
[C21]	P. Trovalusci, B. Schrefler, Multiscale Modelling for Materials with Internal Length, Foreword to the Special Issue of <i>International Journal for Multiscale Computational Engineering</i> , 10 (6), 2012, pages vii-ix. (http://www.dl.begellhouse.com/journals/61fd1b191cf7e96f,3089bea11cd334bd.html , DOI:10.1615/IntJMCompEng.v10.i6; WOS:000312617700001; Scopus:84870218829).
[C22]	P. Trovalusci, A. Tinelli, The recovery of the ethic of constructions: P. L. Nervi vs. S. Musmeci, two structural conceptions compared, in P. Cruz (Ed.), London (UK), CRC Press/Balkema, 2013, 75-76; on-line, 261-267. (<u>Invited</u>). (ISBN: 9780415661959, Hbk+CD-ROM; Scopus:2-s2.0- 9780203798560).
[C23]	T. Sadowski, P. Trovalusci, <i>Multiscale Modeling of Complex Materials: Phenomenological, Theoretical and Computational Aspects</i> . Foreword, CISM (International Centre for Mechanical Sciences) Series, 556 , Springer, Berlin, 2014, pages 6-7. (ISBN 978-3-7091-1811-5, DOI 10.1007/ 978-3-7091-1812-2).
[C24]	T. Sadowski, P. Trovalusci, B. Schrefler, R. de Borst, 'Multiscale and Multiphysics Modelling for Complex Materials'. Foreword to the Special Issue of <i>Meccanica</i> , 49 (9), 2014 (DOI 10.1007/s11012-014-0031-x).
[C25]	P. Trovalusci, M. L. De Bellis, A. Murralli, M. Ostoja-Starzewski, Coarse-graining approaches for particulate composites as micropolar continua. In 11th. World Congress on Computational Mechanics (WCCM XI), E. Onate, X. Oliver; A. Huerta (eds.), Int Center Numerical Methods Engineering, Barcelona (Spain). 2014, 3302-3312. (Invited presentation). (ISBN 978-84-942844-7-2 WOS:000353626504037; Scopus:2-s2.0-84923972479).
[C26]	A. Murralli, P. Trovalusci, M. L. De Bellis, M. Ostoja-Starzewski, Random masonry as homogenized micropolar continua, <i>Proc. 9th International Masonry Conference (9ICM)</i> , Guimarães (Portugal), 2014, 1-9, on line publication. (<u>Invited</u>)
[C27]	P. Trovalusci, <i>Materials with Internal Structure. Multiscale and Multifield Modelling and Simulation</i> , Foreword, Springer Tracts in Mechanical Engineering Series, Springer Int. Publishing Switzerland, 2015, v-vi (DOI:10.1007/978-3-319-21494-8_8; Scopus:s2.0-85027317793) ISSN 2195-9862; 2195-9870 (electronic) ISBN 978-3-319-21493-1; 978-3-319-21494-8 (eBook))
[C28]	P. Trovalusci, Discrete to Scale-Dependent Continua for Complex Materials. A Generalized Voigt Approach Using the Virtual Power Equivalence, in P. Trovalusci (Ed.) <i>Materials with Internal Structure. Multiscale and Multifield Modelling and Simulation</i> , Springer Tracts in Mechanical Engineering Series, Springer Int. Publishing Switzerland, 2016, 109-131 (DOI:10.1007/978-3-319-21494-8_8; 2-Scopus s2.0-85027317793).
[C29]	R. Panei, P. Trovalusci, A. Tinelli, The “question of the technique”: from the designing idea to the realized form, in P. Cruz (Ed.), <i>Structures and Architecture</i> , London (UK), CRC Press/Balkema, 2016, 147-148/1-8(on-line) (<u>Invited</u>). (Scopus:2-s2.0-85015001482; ISBN: 9781138026513 hardback+CD-ROM; 978131573069 eBook).

[C30]	C. Baggio, P. Trovalusci, 3D Limit Analysis of Roman groin vaults. <i>16th Int. Conf. Brick and Block Masonry Conference</i> , June 26-30, 2016, 1-6. On-line. (<u>Invited</u>). (Scopus:2-s2.0-85016088679).
[C31]	A. Favata, P. Trovalusci, R. Masiani, Multiscale modeling of thermo-elastic properties of microcracked materials, VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS), June 6-10, Crete (Greece), 2016. 1-11. On-line (<u>Invited</u>). (Scopus:2-s2.0-84995437650).
[C32]	R. Panei, G. Petrucciani, D. Bonanni, P. Trovalusci, ECOSITING: A sit platform for planning the integrated cycle of urban waste: The case of study of the city of Rome, <i>Smart Innovation, Systems and Technologies</i> , Vol.101, 2019, Springer Nature, 585-592 (ISSN:2190-3018E-ISSN:2190-3026, Scopus:2-s2.0-85048036437)
[C33]	P. Trovalusci, R. Panei, A. Tinelli, Computational Optimization in Architectural Design and Constructive Issues. A case study: the canopy of a waste collection center, in P. Cruz (Ed.), <i>Structures and Architecture</i> , London (UK), CRC Press/Balkema. In print.
[C34]	M. Tuna, P. Trovalusci, L. Leonetti, M. Kirka, 'Explicit' and 'implicit' non-local continuum descriptions for two-dimensional solids with some applications, in "Size-dependent Continuum Mechanics Approaches: Theory and Application", Springer. Submitted. 2019

D. Proceedings of International Congresses

[D1]	P. Trovalusci, No-tension discrete model for jointed block masonry walls using interface elements, <i>Proc. ANSYS Technology Conf. & Exhib.</i> , Vol. 2 nd , Pittsburgh (PA), 1992, 11.73-11.82. (Refereed conference paper. Presenting Author). (WOS:A1993BA66T00080).
[D2]	R. Masiani, P. Trovalusci, Remarks on the use of elastic Cosserat and Cauchy continua to model brick masonry, <i>Proc. 2nd European Solid Mechanis. Conf.</i> , Genova, 1994, H-38. (Presenting author).
[D3]	P. Trovalusci, P. M. Mariano, G. Augusti, On derivation of constitutive equations for elastic microcracked bodies from a discrete model, <i>Proc. 3rd European Solid Mechanics Conf.</i> , Stockholm, 1997, 87. (Presenting author).
[D4]	R. Masiani, P. Trovalusci, Non-linear Cosserat Continua Model for Masonry, <i>Proc. 3rd European Solid Mechanics Conf.</i> , Stockholm, 1997, 193.
[D5]	R. Masiani, P. Trovalusci, Elastic-brittle Cosserat continuum model for brick masonry, <i>Proc. 5th Int. Masonry Conf.</i> , London, 1998, 153-156. (Presenting author).
[D6]	C. Baggio, P. Trovalusci, Mathematical programming application to limit analysis of three dimensional masonry structures, <i>Proc. 5th Int. Masonry Conf.</i> , London, 1998, 131-134.
[D7]	P. Trovalusci, R. Masiani, A non-linear micropolar model for heterogenous materials, <i>Proc. 4th European Solid Mechanics Conf.</i> , Vol. 2, Metz (France), 2000, 469. (Presenting author).
[D8]	P. Trovalusci, R. Masiani, Continuum micropolar modelling of discontinuous masonry-like systems, <i>Proc. 6th Nat. Congr. on Mechanics</i> , Vol. 2, Thessaloniki (Greece), 2001, 257-262. (Presenting author, <u>Invited</u>).
[D9]	P. Trovalusci, R. Masiani, Masonry-like systems as non-linear anisotropic Cosserat continua, <i>1st CSMA-GICM joint workshop on Modern Issue in Modelling and Computation of Damage</i> , Cefalù (PA), 2001, 42-43. (<u>Invited</u>).

[D10]	P. Trovalusci, C. Baggio, Programmazione non lineare per il calcolo a rottura di strutture a blocchi dotate di vincoli unilaterali attritivi, <i>Proc. 3rd joint Conf. of Italian Group of Computational Mechanics and Ibero-Latin American Association of Computational Methods in Engineering</i> , Giulianova (TE), 2002, 1-6. On-line publication. (Presenting author).
[D11]	P. Trovalusci, C. Baggio, An optimisation algorithm for the collapse detection of block structures with no-tension and frictional constraints, <i>Proc. EUROMECH (442) Coll. on Computer-Aided Optimization of Mechanical Systems</i> , Erlangen-Nuremberg (Germany), 2003, 51-52. (Presenting author).
[D12]	P. Trovalusci, G. Rega, A continuum model for the analysis of propagating elastic waves in microcracked materials', <i>Proc. 9th Int. Conf. on The Mechanical Behaviour of Materials</i> , Geneva (Switzerland), 2003, 1-6. On-line. http://www.kenes.com/icm9/gen.htm . (Presenting author).
[D13]	P. Trovalusci, G. Rega, Elastic waves in microcracked bodies as multi-field materials', <i>Proc. 5th European Solid Mechanics Conf.</i> , Thessaloniki (Greece), 2003, 381-382. (Presenting author, <u>Invited</u>).
[D14]	P. Trovalusci, Did we exploit all of His suggestions about Tectonics?, Selezione di brani e immagini a cura di P. Trovalusci, <i>Conv. Int. di Studi "La città Meravigliosa di Ludovico Quaroni"</i> , Roma, 2003., 1-7. On-line.
[D15]	P. Trovalusci, G. Rega, Waves propagation in microcracked continua, Havana (Cuba), <i>Proc. VIII Pan-American Congr. of Applied Mechanics</i> , Vol. 10, 2004, 314-317. (Presenting author). (ISBN: 9597056208).
[D16]	R. Masiani, P. Trovalusci, Non classical constitutive model for block materials, <i>Proc. VIII Pan-American Congr. of Applied Mechanics</i> , Havana (Cuba), Vol. 10, 2004, 467-470. (ISBN: 9597056208, WOS:000231437200011).
[D17]	P. Trovalusci, C. Baggio, Limit Analysis for three-dimensional stone masonry structures with friction, <i>Proc. 13th Int. Brick/Block Masonry Conf.</i> , Amsterdam, 2004, 1-10. On-line. (http://www.13-ibmac.bwk.tue.nl).
[D18]	P. Trovalusci, V. Sansalone, F. Cleri, Multiscale modeling of materials by a multifield approach: Microscopic stress and strain distribution-in fiber-matrix composites, <i>Proc. Meeting on Micromechanics and Microstructure Evolution - Modeling, Simulation and Experiment</i> , Madrid (Spain), 2005, 1. On-line. (WOS:000239823800009).
[D19]	P. Trovalusci, V. Sansalone, F. Cleri, Multifield continua for composite materials using a multiscale strategy, <i>5th European Solid Mechanics Conf.</i> , Budapest, 2006, 1-2. On-line.
[D20]	V. Sansalone, P. Trovalusci, Multiscale Modeling and Simulation of Fiber Reinforced Composites: Macroscopic Properties vs. Microscopic Features'. <i>Proc. ECCOMAS Thematic Conference on "Modelling of Heterogeneous Materials with Applications in Construction and Biomedical Engineering" (MHM)</i> , Prague, 2007, 1-2. On-line. (http://mech.fsv.cvut.cz/mhm2007/).
[D21]	P. Trovalusci, V. Sansalone, Multiscale mechanical modeling and numerical simulations for brick/block masonry, <i>9th US Nat. Congr. on Computational Mechanics (USNCCM)</i> , San Francisco, 2007, 1. On-line.
[D22]	P. Trovalusci, A multiscale-multifield approach to 'complex' materials: theoretical modelling and computational results, <i>Proc. CMM-2009 – Computer Methods in Mechanics</i> , Zielona-Gora (Poland), 2009, 471-472. (Presenting author, <u>Invited</u>).
[D23]	P. Trovalusci, A generalized Voigt's approach to multiscale-multifield modelling of 'complex' materials, <i>Proc. IV European Conference on Computational Mechanics (ECCM2010-ECCOMAS)</i> , Paris, 2010, 1. On-line publication. (http://www.eccm2010.org/). (Presenting author, Key-note).

[D24]	P. Trovalusci, Materials with Flaws and Inclusions: Non-Classical Continuum Description, <i>2nd International Conference on Material Modelling (ICMM2)</i> , Paris, 2011, 1. On-line publication (http://icmm2.ensmp.fr/). (Presenting author, <u>Invited</u>).
[D25]	A. Murralli, M. L. De Bellis, P. Trovalusci, M. Ostoja-Starzewski, Size of RVE in random micropolar composites, <i>6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS)</i> , Wien, 2012, 1-2. On-line publication. (<u>Invited</u>).
[D26]	A. Pau, P. Trovalusci, Relative rotations in block masonries as equivalent micropolar and second-gradient continua, <i>6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS)</i> , Wien (Austria), 2012, 1. On-line. (<u>Invited</u>).
[D27]	A. Pau, P. Trovalusci, A multifield continuum model for microporous ceramic matrix composites, <i>Proc. 11th. World Congress on Computational Mechanics (WCCM XI), 5th. European Conference on Computational Mechanics (ECCM V), 6th. European Conference on Computational Fluid Dynamics (ECFD VI)</i> , Barcelona (Spain), 2014, 1-2. On line. (<u>Invited</u>).
[D28]	D. Addessi, M.L. De Bellis, R. Masiani, P. Trovalusci, Homogenization of Fiber Composite Materials: a comparison between discrete and continuum micromechanical approaches, <i>Proc. WCCM XI, ECCM V</i> , Barcelona (Spain), 2014, 1-2. (Presenting author, <u>Invite</u>).
[D29]	P. Trovalusci, M. L. De Bellis, M. Ostoja-Starzewski, A. Murralli, Random masonry as homogenized micropolar continua, <i>9th International Masonry Conference (9ICM)</i> , Guimarães (Portugal), 2014. (Poster).
[D30]	P. Trovalusci, Coarse-graining approaches for complex materials as 'non-simple' continua, <i>Multiscale Material Mechanics in the 21st Century: Old Ideas for New Models Across Materials, Processes and Scales</i> . Int. Symposium honoring Nobel Laureate Dan Shechtman. Cancun (Mexico), July 2014, 1. On line. (<u>Invited</u>).
[D31]	P. Trovalusci, A. Tinelli, Shape and structure, form improving and form finding, autopoiesis vs mimesis, Form after Form, 1 st Int. Symposium 'Form After Form': <i>On the relentless emergence of new (architectural) forms</i> . School of Architecture, University of Genova, Sept. 22, 2014. (<u>Invited</u>).
[D32]	P. Trovalusci, Discrete to scale-dependent continua for complex materials. A generalized Voigt approach using the principle of virtual power. 'Micromechanics of Metal Ceramic Composites', <i>Euromech Colloquium 557</i> , 1, Book of Abstracts, Stuttgart (Germany), March 2-5, 2015, 1. (Key-Note)
[D33]	P. Trovalusci, Nineteenth century molecular models with a glance at modern discrete–continuum theories, <i>Book of Abstracts of Gesellschaft für Angewandte Mathematik und Mechanik (GAMM) Annual Meeting</i> , 13, Lecce (Italy), March 23-27, 2015, 744-745. On-line (Key-Note). http://conference.unisalento.it/ocs/public/conferences/1/download/GAMM2015_Book_of_Abstracts.pdf
[D34]	P. Trovalusci, Coarse-graining approaches for complex materials as multifield continua with applications to particle composites, <i>Proc. 6th Int. Conf. on Computational Methods (ICCM2015)</i> , Vol. 2, July 14-16, Auckland, New Zealand, 2015, 1-2. On-line. (Key-Note). (ISSN 2374-3948)
[D35]	P. Trovalusci, M. L. de Bellis, M. Ostoja-Starzewski, Particle Random Composites as Micropolar Continua: A Statistically Based Multiscale Procedure. In <i>Generalized Continua as Models for Materials with Multi-Scale-Effects or under Multi-Field-Actions</i> , H. Altenbach, S. Forest (Eds.), 41-42. On-line. Advanced Seminar, Experimental Factory, Magdeburg, Germany, September 21–25, 2015. (<u>Invited</u>). (http://www.ovgu.de/ifme/gc2015/book-of-abstracts.pdf .)

[D37]	P. Trovalusci, M. L. De Bellis, M. Ostoja-Starzewski, E. Reccia, R. Masiani, Sensitivity to material contrast and scaling measures in statistically-based homogenization procedure for random composite materials, <i>Int. Conf. on Stochastic Mechanics & Meccanica Stocastica</i> , 1. Capri, 13-16 June, 2016 (<u>Invited</u>).
[D38]	P. Trovalusci, Multiscale constitutive models for particle composites as ‘non-simple’ continua, <i>Proc. 7th Int. Conf. on Computational Methods for everything</i> , Vol. 3, Berkeley (CA, USA), August 1-4, 2016, 1. On-line. (Key-Note). (ISSN 2374-3948)
[D39]	P. Trovalusci, The recovery of the ‘ethic’ of constructions: P. L. Nervi vs S. Musmeci, two structural conceptions compared, 5th Int. Workshop on <i>Design in Civil and Environmental Engineering (DCEE5)</i> , Sapienza University of Rome, October 6-8, 2016, 1-2. On-line (<u>Invited</u>).
[D40]	R. Panei, P. Trovalusci, Architectural Design of Recycling Areas, 5th Int. Workshop on <i>Design in Civil and Environmental Engineering (DCEE5)</i> , October 6-8, Sapienza University of Rome, 2016, 1. On-line (<u>Invited</u>).
[D41]	P. Trovalusci, A Multiscale Description of Particle Composites: from Lattice Microstructures to Micropolar Continua, <i>Multiscale Innovative Materials and Structures MIMS16</i> , Cetara (SA), Italy, October 28-30, 2016, 1-2. On-line. (Key-Note)
[D42]	R. Panei, P. Trovalusci, Isole Ecologiche e Centri di Riuso: un nuovo sguardo sui rifiuti/Ecological Islands and Reuse Centers: a new look on waste, Reporting Frome, Facoltà d’Architettura, Sapienza, University of Rome, Biennale di Venezia, October 2016, 103-109, On-line (<u>Invited</u>)
[D43]	M.L. De Bellis, P. Trovalusci P., R. Masiani, Modeling of random particle composites via a three-scale discrete-continuous approach, <i>5th Int. Conf. on Material Modelling, ICMM5</i> , Roma, June 14-16, 2017, 1. On-line (<u>Invited</u>)
[D44]	L. Leonetti, P. Trovalusci, F. Greco, R. Luciano, Couple-stress modeling of masonry as particle composite: a multiscale/multidomain approach for damage detection. <i>Proc. of the XXV Annual Int. Conf. on Composites/Nano Engineering (ICCE-25)</i> , Roma, July 16-22, 2017, 1-2. On-line (<u>Invited</u>)
[D45]	N. Fantuzzi, L. Leonetti, P. Trovalusci, F. Tornabene, Some novel numerical applications of Cosserat continua, <i>Proc. 8th Int. Conf. on Computational Methods</i> , Vol.4, July 25-29, Guilin, Guangxi, China, 2017, 1. On-line. (<u>Invited</u>). (ISSN 2374-3948)
[D46]	P. Trovalusci, Non-classical continuum modeling of materials with microstructure: a multiscale/multifield approach- <i>Proc. 8th Int. Conf. on Computational Methods</i> , Vol.4, July 25-29, Guilin, Guangxi, China, 2017, 1-2. On-line publication. (Thematic Plenary Lecture). (ISSN 2374-3948)
[D47]	P. Trovalusci, Multifield/non-local continuum modelling of materials with microstructure: a multiscale approach, <i>Int. Symp. on Multiscale Computational Analysis of Complex Materials</i> , August 29-31, Copenhagen, Denmark, 2017. On-line publication, 1 (Key-Note).
[D48]	L. Sorrentino, M. Pepe, D. Liberatore, P. Trovalusci, Performance of a school hosted within a historical complex affected by the 2016 seismic sequence. <i>17th Italian Conf. on Earthquake Engineering</i> , Pistoia, September 17-21, 2017, SS02.33-42.
[D49]	M.L. De Bellis, Trovalusci P., Masiani R.: Modeling of random particle composites via a three-scale discrete-continuous approach, <i>5th Int. Conf. on Material Modelling, ICMM5</i> , June, 14-16, Roma, 2017. (<u>Invited</u>)
[D50]	L. Leonetti, N. Fantuzzi, P. Trovalusci, F. Tornabene, Mechanical behavior of orthotropic micropolar continua subjected to localized loads, <i>Proc. 9th Int. Conf. on Computational Methods</i> , Vol. 5, August 6-10, 2018, 1. On-line (<u>Invited</u>). (ISSN)

[D50]	L. Leonetti, E. Reccia, P. Trovalusci, M. Pepe, Block masonry under in-plane actions: comparison between non-linear continuous and discontinuous approaches, <i>Proc. 9th Int. Conf. on Computational Methods</i> , Vol. 5, August 6-10, 2018, 1. On-line (<u>Invited</u>).
[D51]	M. Pingaro, L. Leonetti, P. Trovalusci, Block masonry under in-plane actions: comparison between non-linear continuous and discontinuous approaches, <i>Proc. 9th Int. Conf. on Computational Methods</i> , Vol. 5, August 6-10, Roma, 2018, 1. On-line (<u>Invited</u>).
[D52]	R. Panei, G. Petrucciani, D. Bonanni, P. Trovalusci, 'Ecositing': a sit platform for planning the integrated cycle of urban waste - the case of study of the city of Rome', <i>Proc. Int. Conf. on New Metropolitan Perspectives 2018</i> ', Local knowledge and innovation dynamics towards territory attractiveness through the implementation of Horizon/E2020. Reggio Calabria (Italy), May 2018 (http://www.isth2020.unirc.it),
[D53]	P. Trovalusci, R. Panei, A. Tinelli, Concrete thinking: the shape of concrete. Evolutionary optimal design for a canopy of a waste collection centre, <i>Int. Conf. on Research in Construction Eduardo Torroja/AEC (Architecture, Engineering and Concrete)</i> . Institute of Construction Sciences Eduardo Torroja. Madrid, Spain, November 21-23, 2019, 1-2. On-line (<u>Presenting author, Invited</u>).
[D54]	P. Trovalusci, Discrete to scale dependent (non-classical) continuous approaches for materials with microstructure: theoretical and computational issues, <i>Multiscale Innovative Materials and Structures MIMS19</i> , Cetara (SA), Italy, Feb 28– March 2, 2019 1-2. On-line. (Plenary Lecture)
[D56]	M. L. De Bellis, M. Pingaro, E. Reccia, P. Trovalusci, Statistical homogenization of random porous media. <i>3rd Int. Conf. on Uncertainty Quantification in Computational Sciences and Engineering</i> (UNCECOMP 2019), June 24-26, 2019, Crete, Greece, 1-11 (<u>Invited</u>)
[D57]	M. Pepe, M. Pingaro, E. Reccia, P. Trovalusci, Discrete approaches and Limit Analysis for the in-plane failure analysis of masonry walls, <i>7th Int. Conf. on Computational Methods in Structural Dynamics and Earthquake Engineering</i> (COMPDYN 2019), June 24-26, 2019, Crete, Greece (<u>Invited</u>).
[D58]	V. Settini, P. Trovalusci, G. Rega, Wave propagation in a microcracked elastic bar using a generalized continuum formulation, <i>Int. Conf. on Nonlinear Solid Mechanics</i> (ICoNSoM 2019), June 16–19, 2019, Rome, Italy (<u>Invited</u>)
[D59]	M. Pingaro, M. L. De Bellis, P. Trovalusci, Virtual element method in plane Cosserat elasticity, <i>Int. Conf. on Nonlinear Solid Mechanics</i> (ICoNSoM 2019), June 16–19, 2019, Rome, Italy (<u>Invited</u>)
[D60]	M. Pingaro, M. L. De Bellis, P. Trovalusci, A Virtual Element approach for micropolar continua, <i>XIV Int. Conf. on Computational Plasticity. Fundamentals and Applications COMPLAS 2019</i> , September 3-5, 2019, Barcelona, Spain (<u>Invited</u>).
[D61]	R. Panei, G. Petrucciani, P. Trovalusci, Searching for a Waste Space - EcoSiting: from Ecological Islands to the Creative Reuse Centers, <i>17th Int. Waste Management and Landfill Symposium</i> , 30 Sept - 04 Oct 2019 / Forte Village / Cagliari / Italy (https://www.sardiniasymposium.it)
[D62]	P. Trovalusci, N. Fantuzzi, E. Lofrano, Materials with anisotropic microstructure as micropolar continua, statical and dynamical simulations, 16th International Conference on Civil, Structural and Environmental Engineering Computing (CIVIL-COMP 2019), September 16–19, 2019, Riva del Garda, Italy. (Lecture) (http://www.civil-compconf.com/).
[D63]	P. Trovalusci, Scale-dependent Continuum Descriptions for Materials with Microstructure: Old Ideas and New Formulations, SIPS Cyprus, 23-27 Oct. 2019. (Plenary Lecture) (https://www.flogen.org/sips2019/scheduled_program_detailed.php?id1=279)

E. Proceedings of National Congresses

[E1]	C. Baggio, R. Masiani, P. Trovalusci, Modelli discreti per lo studio della muratura a blocchi, <i>Atti del V Conv. Naz. "L'Ingegneria Sismica in Italia"</i> , Vol. II, Palermo, 1991, 1205-1218. (Presenting author).
[E2]	R. Masiani, N. Rizzi, P. Trovalusci, Continui con struttura per l'analisi di murature a tessitura regolare, <i>Atti dell'XI Congr. dell'Associazione Italiana di Meccanica Teorica ed Applicata (AIMETA)</i> , Vol. Meccanica dei solidi e delle strutture, Trento, 1992, 405-412.
[E3]	C. Baggio, P. Trovalusci, Non-standard limit analysis for jointed block masonry walls, <i>Atti del VII Conv. di Meccanica Computazionale</i> , Trieste, 1993, 28-33.
[E4]	C. Baggio, P. Trovalusci, Calcolo a rottura per pareti in muratura a blocchi soggette ad azioni nel piano', <i>Atti del VI Conv. Naz. "L'Ingegneria Sismica in Italia"</i> , Vol. II, Perugia, 1993, 559-568. (Presenting author).
[E5]	P. Trovalusci, R. Masiani, Simmetrie materiali di sistemi discreti e di continui micropolari equivalenti, <i>Atti del XII Congr. Naz. AIMETA</i> , vol. I, Napoli, 1995, 211-216. (Presenting author).
[E6]	R. Masiani, N. Rizzi, P. Trovalusci, Analisi non lineare di murature: un modello continuo', <i>Atti del XII Congr. Naz. AIMETA</i> , Vol. II, Napoli, 1995, 59-64. (Presenting author).
[E7]	P. M. Mariano, P. Trovalusci, Un modello costitutivo per la muratura a blocchi, <i>Atti del Conv. Naz. "La meccanica delle murature tra teoria e progetto"</i> , Messina, 1996, 351-360. (Presenting author).
[E8]	R. Masiani, N. Rizzi, P. Trovalusci, Considerazioni sull'impiego di modelli continui nella meccanica delle murature, <i>Atti del Conv. Naz. "La meccanica delle murature tra teoria e progetto"</i> , Messina, 1996, 347-350.
[E9]	P. M. Mariano, P. Trovalusci, Equazioni costitutive per solidi elastici microfessurati ottenute da modelli discreti e simmetrie materiali, <i>Atti del XIII Congr. Naz. AIMETA</i> , Vol. III, Siena, 1997, 79-84. (Presenting author).
[E10]	R. Masiani, P. Trovalusci, Modelli micropolari per mezzi compositi a matrice non elastica, <i>Atti del XIII Congr. Naz. AIMETA</i> , Vol. IV, Siena, 1997, 211-216.
[E11]	C. Baggio, P. Trovalusci, Calcolo a rottura per strutture di blocchi piane e spaziali, <i>Atti VIII Conv. Naz. "L'Ingegneria Sismica in Italia"</i> , Taormina, 1997.
[E13]	P. Trovalusci, A multi-scale model for composite materials, <i>Atti del XVI Congr. Naz. AIMETA</i> , Ferrara, 2003, 1-8. On line publication. (Presenting author).
[E14]	V. Sansalone, G. D'Agostino, P. Trovalusci, F. Cleri, Simulazioni multicampo di sistemi continui strutturati tramite un approccio ad elementi finiti, <i>Atti del XV Conv. di Meccanica Computazionale (GIMC)</i> , Genova, 2004, 1-4. On-line.
[E15]	P. Trovalusci, V. Varano, G. Rega, Elastic waves in a microcracked bar based on multifield continuum modelling, <i>Atti del XVIII Congr. Naz. AIMETA</i> , Brescia 2007, 1-10. On-line. (ISBN: 9788889720691). (Presenting author).
[E16]	G. Ruta, P. Trovalusci, D. Capecchi, I modelli molecolari in elasticità: il contributo di Voigt, <i>Atti del XVIII Congr. Naz. AIMETA</i> , Brescia 2007, 1-10. On line. (ISBN: 9788889720691).
[E17]	G. Ruta, P. Trovalusci, D. Capecchi, Poincaré's energetic approach to linear elasticity, <i>Atti del XIX Congr. Naz. AIMETA</i> , Ancona 2009, 1-10. On-line. (ISBN: 9788896378083).
[E18]	P. Trovalusci, V. Varano, G. Rega, A. Murrari, Elastic waves in a microcracked bar: the constitutively coupled case, <i>Atti del XIX Congr. Naz. AIMETA</i> , Ancona 2009, 1. On-line publication. (ISBN: 9788896378083).

[E19]	A. Pau A., P. Trovalusci, A. Murralli, Material symmetries and scale effects in block masonries and equivalent micropolar continua, <i>Atti del XVIII Conv. GIMC</i> , Siracusa, 2010, 1-4 . On-line. (ISBN: 978 88 905217 0 6).
[E20]	A. Pau, P. Trovalusci, The role of relative rotation in the mechanics of in-plane shear-loaded brick/block masonry <i>Atti del XX Congr. Naz. AIMETA</i> , Bologna, 2011, 1. On-line. (ISBN: 9788890634017).
[E21]	M. L. De Bellis, A. Murralli, P. Trovalusci, M. Ostoja-Starzewski, Homogenization for random micropolar composites. The case of masonry-like materials, <i>Atti del XXI Congr. Naz. AIMETA</i> , Libreria Cortina , Torino, 2013, 202-210. (ISBN: 9788882391836).
[E22]	A. Pau, P. Trovalusci, Modelling of composite materials as microcontinua equivalent to lattice systems, <i>Atti del XXI Congr. Naz. AIMETA</i> , Libreria Cortina , Torino, 2013 (ISBN: 9788882391836).
[E23]	P. Trovalusci, Discrete-to-continuum approaches for complex materials as ‘non-simple’ continua, <i>Atti del Conv. Meccanica Computazionale e Meccanica dei Materiali (GIMC-GMA)</i> , Cassino, June 11-13, 2014, 1-2. On-line. (<u>Invited</u>).
[E24]	M. L. De Bellis, P. Trovalusci, M. Ostoja-Starzewski, Micropolar homogenization of spatially random composite: RVE size and scaling of elastic coefficients, <i>Atti del XXII Congr. Naz. AIMETA</i> , p. 355, De Ferrari, Genova, Sept. 14-18, 2015 (ISBN: 978-88-97752-55-4; http://aimeta2015.dicca.unige.it).
[E25]	P. Trovalusci, Non-classical molecular approaches of Nineteenth century: the first step towards discrete-to-non-local field models, <i>Atti del XXII Congr. Naz. AIMETA</i> , p. 409, De Ferrari, Genova, September, 2015. (<u>Invited</u>) (ISBN: 978-88-97752-55-4; http://aimeta2015.dicca.unige.it).
[E26]	R. Panei, G. Petrucciani, D. Bonanni, P. Trovalusci, Ecositing: una Piattaforma Sit Per la Pianificazione del Ciclo Integrato dei Rifiuti Urbani – Il Caso di Studio della Città di Roma, <i>XXXVIII Conferenza Italiana di Scienze Regionali (AISRE)</i> , Cagliari, September 20-22, 2017, 1-15. On-line (1-15). (<u>Invited</u>).
[E27]	L. Leonetti, F. Greco, P. Trovalusci, R. Luciano, R. Masiani, A Couple-Stress/Cauchy Multiscale Model for the Nonlinear Analysis of Periodic Masonries Under in-Plane Loading Conditions, <i>Atti del XXIII Congr. Naz. AIMETA</i> , Salerno, Sept. 4-7, 2017, Extended abstract 1, Full Paper 1-14. On-line. (<u>Invited</u>) (Scopus:2-s2.0-85045736817).
[E28]	M.L. De Bellis, P. Trovalusci, R. Masiani A three scale model for random particle composites: from lattice microstructures to micropolar continua, <i>Atti del XXIII Congr. Naz. AIMETA</i> , Salerno, Sept. 4-7, 2017,1. On-line. (<u>Invited</u>)
[E29]	M. Pingaro, P. Trovalusci, E. Reccia, Integrated Procedure for Homogenization of Particle Random Composites Using Virtual Element Method, <i>Atti del XXIII Congr. Naz. AIMETA</i> , Salerno, Sept. 4-7, 2017,1. On-line. (<u>Invited</u>)
[E30]	L. Leonetti, E. Reccia, P. Trovalusci, A. Cecchi, A comparison between a FEM/DEM and a FEM-based couple-stress, multiscale model for the in-plane failure analysis of masonry walls <i>Atti del XXIII Congr. Naz. AIMETA</i> , Salerno, Sept. 4-7, 2017, 1. On-line. (<u>Invited</u>)
[E31]	M. Pingaro, M. L. De Bellis, P. Trovalusci, A Virtual Element approach for in plane Cosserat elasticity, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019
[E32]	E. Lofrano, A. Paolone, M. Pingaro, P. Trovalusci, Optimal sensors placement for damage detection of beam structures, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019
[E33]	N. Fantuzzi, P. Trovalusci, Multiscale analysis of materials with anisotropic microstructure as micropolar continua, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019
[E34]	M. Pepe, M. Pingaro, E. Reccia, P. Trovalusci, Discrete approaches and Limit Analysis for the in-plane failure analysis of masonry walls, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019

[E35]	M. Pingaro, M. L. De Bellis, E. Reccia, P. Trovalusci, Homogenization of composites polycrystalline with thin interfaces using a FSHP, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019
[E36]	V. Settimi, P. Trovalusci, G. Rega, Dispersion features in a model of elastic bar with microcracks derived from a generalized continuum formulation, <i>Atti del XXIV Congr. Naz. AIMETA</i> , Roma, Sept. 15-19, 2019

F. PhD Thesis, Technical Reports and other publications

[F1]	P. Trovalusci, <i>Modelli matematici per la muratura a blocchi considerata come sistema dotato di struttura</i> , Rome 1992 (PhD Thesis, University of Florence). http://dsg.uniroma1.it/trovalusci/pubblicazioni_pdf/Ph_D%20thesis%20Trovalusci.pdf
[F2]	P. Trovalusci, Considerazioni sulla modellazione numerica per lo studio meccanico delle strutture in muratura, in <i>Studi e ricerche sulla sicurezza sismica dei monumenti</i> , Department of Structural Engineering and Geotechnics, Sapienza University of Rome, No. 12, 1993.
[F3]	P. Trovalusci, Il museo “Vitra Design” a Weil-am-Rheim, in Germania, by Frank O. Gehry, <i>L’Industria Italiana del Cemento</i> , 664 , 1993, 186-195.
[F4]	P. Trovalusci, The Hussain-Doshi Gufa art Gallery in Ahmedabad, India, by B. V. Doshi, S. Doshi & Bhalla, <i>L’Industria Italiana del Cemento</i> , 701 , 1995, 406-419.
[F5]	P. Trovalusci, R. Masiani, Material symmetries in multifield continua identified from periodical lattices, in <i>Studi e Ricerche</i> , Department of Structural Engineering and Geotechnics, Sapienza University of Rome, No. 6, May 1996.
[F6]	P. Trovalusci, V. Sansalone, F. Cleri, A multifield continuum approach for the multiscale modelling of composite materials, Roma, 2005, 1-16.
[F7]	P. Trovalusci, <i>Analisi Limite di strutture a blocchi con i metodi della programmazione matematica. Il codice ALMA per l’Analisi Limite di Murature a blocchi con giunti Attritivi</i> . 2006. On-line manuscript: http://w3.dsg.uniroma1.it/corsomuratura09/index.php?option=com_content&task=view&id=26&Itemid=49 (password: CFSM09-PATTROVA).

20 January 2020

Patrizia Trovalusci