

Curriculum vitae

Matteo Novaga

29 novembre 2025

FORMAZIONE

1996: Laurea in Matematica presso l'Università di Pisa,
1997: Diploma in Matematica presso la Scuola Normale Superiore di Pisa,
1996–1998: Perfezionamento in Matematica presso la Scuola Normale Superiore di Pisa.

POSIZIONE RICOPERTA

12/1998 – 09/2008: ricercatore presso l'Università di Pisa,
10/2008 – 11/2012: professore associato presso l'Università di Padova,
12/2012 – 10/2015: professore associato presso l'Università di Pisa,
dal 11/2015: professore ordinario presso l'Università di Pisa.

INTERESSI DI RICERCA

Analisi geometrica, equazioni di evoluzione, calcolo delle variazioni, teoria geometrica della misura.

PREMI E BORSE DI STUDIO

1998: premio “Benedetto Sciarra” per tesi di laurea.
2002: borsa di studio CNR–NATO per soggiorni all'estero.
2008: premio “SIAM outstanding paper” per il lavoro [39].
2010: “Chercheur STUDIUM” presso l'Università di Tours, Francia.
2015: “Von Neumann Professorship” presso la TUM University di Monaco di Baviera, Germania.

RESPONSABILITÀ ACCADEMICHE

2006-2008: Membro del Senato Accademico dell'Università di Pisa.
2015-2018: Presidente dei corsi di laurea triennale e magistrale in Matematica.
2019-2023: Direttore del Dipartimento di Matematica dell'Università di Pisa.
2025-2029: Direttore dello GNAMPA.

ATTIVITÀ EDITORIALE

Membro del comitato editoriale delle riviste:

Rendiconti del Seminario Matematico dell'Università di Padova dal 2011.

Geometric Flows dal 2014 al 2020.

Interfaces and Free Boundaries dal 2019.

Acta Applicandae Mathematicae dal 2021.

Annali dell'Università di Ferrara dal 2022.

Nonlinear Analysis dal 2025.

Editore dei volumi:

Singularities in Nonlinear Evolution Phenomena and Applications, Edizioni della Normale, CRM Series, vol. 9, 2009.

Geometric Partial Differential Equations, Edizioni della Normale, CRM Series, vol. 15, 2013.

COORDINAMENTO DI PROGETTI DI RICERCA

2000-2001: responsabile del progetto CNR Agenzia 2000 *Problemi variazionali con anisotropia cristallina: aspetti teorici e numerici*,

2006: responsabile del progetto GNAMPA *Problemi di evoluzione non lineari suggeriti dalla fisica e dalla biologia*,

2009-2010: responsabile del progetto di ricerca dell'Università di Padova *Evolution equations in*

heterogeneous media,

2010: progetto GNAMPA *Geometric evolution and minimal surfaces in Euclidean and Lorentzian spaces,*

2013-2014: responsabile del progetto MIT-UNIP *Singularities of the mean curvature flow and applications,*

2015-2016: responsabile del progetto di ricerca dell'Università di Pisa *Metodi variazionali per problemi geometrici,*

2017-2019: responsabile del progetto di ricerca dell'Università di Pisa *Problemi di ottimizzazione e di evoluzione in ambito variazionale,*

2023-2025: responsabile di unità del progetto PRIN 2022 *Geometric Evolution Problems and Shape Optimization,*

2024-2025: responsabile del progetto Galileo 2024 *Variational methods for geometric and optimal matching problems,*

2023-2027: responsabile del progetto del Dipartimento di Matematica dell'Università di Pisa *Dipartimento di Eccellenza 2023-2027.*

VALUTAZIONE DI PROGETTI DI RICERCA

2012: Collaborative Research Centre *The Mathematics of Emergent Effects*, finanziata dalla DFG.

2016: Rinnovo del Collaborative Research Centre *The Mathematics of Emergent Effects*, finanziata dalla DFG.

2020: Special Research Programme (SFB) *Taming Complexity in Partial Differential Systems*, Speaker Prof. Ulisse Stefanelli, finanziata dalla Austrian Science Fund (FWF).

2023: Progetti di ricerca in Matematica dell'Academy of Finland's Research Council for Natural Sciences and Engineering.

PROFESSORE VISITATORE

Leipzig University (Lipsia), dicembre 1998 – febbraio 1999.

Max-Planck Institute (Lipsia), luglio 2000.

Rutgers University (New Brunswick), gennaio – luglio 2002.

Hokkaido University (Sapporo), febbraio – marzo 2007.

Ecole Polytechnique (Parigi), maggio 2007.

Université Pierre et Marie Curie (Parigi), maggio 2008.

Université François-Rabelais (Tours), febbraio – settembre 2010.

Ecole Polytechnique (Parigi), giugno 2011.

Ecole Polytechnique (Parigi), maggio 2012.

Ecole Polytechnique (Parigi), giugno 2013.

University of Texas at Austin, febbraio 2015.

Ecole Polytechnique (Parigi), marzo 2015.

TUM University (Monaco di Baviera), aprile – maggio 2015.

Ecole Polytechnique (Parigi), settembre 2016.

Melbourne University (Melbourne), marzo 2017.

Ecole Polytechnique (Parigi), luglio 2022.

TUM University (Monaco di Baviera), febbraio 2023.

Ecole Polytechnique (Parigi), maggio 2025.

ORGANIZZAZIONE CONVEGNI

Workshop “Interface Evolutions and Applications”, Centro De Giorgi, Pisa, settembre 2004.

Minisymposium “Mathematical Aspects of Ginzburg-Landau Theories”, “SIAM Conference on Analysis of Partial Differential Equations”, Houston (USA), dicembre 2004.

Workshop “Gradient flow equations of nonconvex functionals”, Centro De Giorgi, Pisa, maggio 2005.

“One day workshop on variational problems”, Università di Pisa, giugno 2006.

Workshop “Geometric evolutions and applications”, Centro De Giorgi, Pisa, dicembre 2006.

Workshop “Recent advances on the Perona-Malik Equation”, Centro De Giorgi, Pisa, dicembre 2006.

Workshop “Singularities in nonlinear evolution phenomena and applications”, Centro De Giorgi, Pisa, maggio 2008.

Minisymposia “Variational models in image analysis I and II”, “SIAM Conference on Emerging Topics in Dynamical Systems and Partial Differential Equations”, Barcelona, giugno 2010.

Minisymposium “Homogenization and free boundary problems”, “SIMAI 2010”, Cagliari, giugno 2010.

Workshop “Geometric Evolutions and Minimal Surfaces in Lorentzian Manifolds”, Centro De Giorgi, Pisa, settembre 2010.

Minisymposia “Concentration Phenomena in Variational Problems of Mathematical Physics, Parts I and II”, “ICIAM 2011”, Vancouver, luglio 2011.

Workshop “Geometric PDEs and applications”, Università di Padova, Padova, aprile 2012.

“ERC Workshop on Geometric Partial Differential Equations”, Centro De Giorgi, Pisa, settembre 2012.

“Summer school on Nonlinear PDE’s and applications to Image Analysis. A scientific tribute to Vicent Caselles”, Centre de Recerca Matemàtica, Barcelona, luglio 2015.

Workshop “Variational and PDE problems in Applied Mathematics”, Università di Pisa, febbraio 2016.

Workshop “Advances in Nonlinear Problems from Materials Science and Shape Optimization”, Università di Pisa, giugno 2016.

Workshop “Curves and Networks in Geometric Analysis”, Centro De Giorgi, Pisa, giugno 2017.

Minisymposium “Progress in Non-local Variational Problems, Parts I and II”, “SIAM Conference on Analysis of Partial Differential Equations”, Baltimore (USA), dicembre 2017.

Workshop “Variational problems, PDEs and applications”, Università di Pisa, gennaio 2019.

Minisymposium “Recent developments in nonlocal geometric variational problems”, “ICIAM 2019”, Valencia, luglio 2019.

Workshop “Variational methods and applications”, Centro De Giorgi, Pisa, settembre 2021.

Workshop “Ricordando Luciano Modica”, Università di Pisa, novembre 2021.

Workshop “Isoperimetric Problems”, Università di Pisa, giugno 2022.

Workshop “Calculus of Variations & Geometric Measure Theory”, Università di Pisa, giugno 2023.

Minisymposium “Recent progress in variational problems with nonlocality”, “ICIAM 2023”, Tokyo, agosto 2023.

Workshop “Curvature-driven geometric problems”, Università di Pisa, dicembre 2023.

XXXIII convegno nazionale di Calcolo delle Variazioni, Riccione, febbraio 2024.

“Pisa-Freiburg school in Applied Analysis”, Università di Pisa, settembre 2024.

XXXIV convegno nazionale di Calcolo delle Variazioni, Riccione, febbraio 2025.

School “Selected topics in Calculus of Variations and PDEs”, Università di Pisa, aprile 2025.

Workshop “Geometric Methods in Calculus of Variations”, Centro De Giorgi, Pisa, luglio 2025.

Summer School “Curvature & Applications”, Lake Chiemsee, settembre 2025.

Workshop “Progress in modeling and analysis for nanomagnetism and related topics”, Centro De Giorgi, Pisa, ottobre 2025.

Workshop “Morphogenesis and morphing 200 years after Gauss”, Centro De Giorgi, Pisa, ottobre 2025.

ESI Workshop “Geometric variational problems”, ESI Vienna, novembre 2025.

“Un incontro di Analisi e Logica”, Università di Pisa, novembre 2025.

COMUNICAZIONI A CONVEGNI

1. Euroconference “Front Propagation: Theory and Applications”, Anogia Academic Village, Creta, 26 luglio-1 agosto 1998. Titolo: *Approximation and comparison for crystalline evolutions*.
2. Fourth International Congress on Industrial and Applied Mathematics “ICIAM99”, Edinburgo, 5-9 luglio 1999. Titolo: *Facet-breaking for 3D crystalline curvature flow: Mathematical aspects*.

3. XVI Congresso dell'Unione Matematica Italiana, Napoli 13-18 settembre 1999. Titolo: *Alcuni aspetti delle evoluzioni geometriche di insiemi.*
4. "Nonlinear Analysis: 2000", Courant Institute, New York, 28 maggio-2 giugno 2000. Titolo: *A variational problem in crystalline evolutions.*
5. Euro Summer School "Mathematical Aspects of Evolving Interfaces", University of Funchal, Madeira, 3-9 luglio 2000. Titolo: *On a crystalline variational problem.*
6. "Mass Transport Problems, Shape Optimization and Weak Geometrical Structures", Università di Pisa, 26-28 ottobre 2000. Titolo: *Regularity results for minimizers of crystalline energies.*
7. Workshop "Viscosity Solutions and their Applications", Palma de Mallorca, 8-10 marzo 2001. Titolo: *Geometric evolutions in the plane.*
8. SIAM/EMS Conference "Applied Mathematics in our Changing World", Berlino, 2-6 settembre 2001. Titolo: *The Total Variation Flow.*
9. CIRM Conference "Aspects mathématiques des processus d'invasion en science de la vie", Luminy, 15-19 marzo 2004. Titolo: *The total variation flow.*
10. SIAM Conference "Analysis of Partial Differential Equations", Houston, 4-9 dicembre 2004. Titolo: *Traveling waves solutions for Ginzburg-Landau systems in infinite cylinders.*
11. "EQUADIFF 11, International conference on differential equations", Bratislava, 25-29 luglio 2005. Titolo: *Crystalline evolutions of convex sets.*
12. "Analysis day", Colonia, 12 novembre 2005. Titolo: *Convex calibrable sets.*
13. Workshop "Moving boundaries", Lione 14-16 dicembre 2005. Titolo: *Mean curvature flow with a discontinuous driving force.*
14. International Congress of Industrial and Applied Mathematics "ICIAM07", Zurigo, 16-20 luglio 2007. Titolo: *A variational free-boundary problem arising in combustion theory.*
15. Workshop "Analysis of Stochastic Surface Evolution", Lipsia, 29-31 gennaio 2009. Titolo: *Pinning of discrete interfaces.*
16. SIAM Conference on "Analysis of Partial Differential Equations", Miami, 7-10 dicembre 2009. Titolo: *A Semidiscrete Scheme for the Perona-Malik Equation.*
17. Workshop "Motions of Interfaces and Nonlinear PDEs", Tours, 1-4 febbraio 2010. Titolo: *Evolution of a relativistic string.*
18. SIAM Conference on "Emerging Topics in Dynamical Systems and Partial Differential Equations", Barcellona, 31 maggio - 4 giugno 2010. Titolo: *A semidiscrete scheme for ill-posed equations.*
19. Workshop "Progress in Variational Problems - New Trends of Geometric Gradient Flow and Critical Point Theory", Kyoto, 7-9 giugno 2010. Titolo: *Variational evolutions in image analysis & Evolution of a relativistic string.*
20. Workshop "Modern problems in geometric measure theory", Mosca, 29-30 dicembre 2010. Titolo: *Constrained isoperimetric problems.*
21. Workshop "Trends in Mathematical Imaging and Surface Processing", Oberwolfach, 30 gennaio-5 febbraio 2011. Titolo: *Mean curvature flow in heterogeneous media.*
22. Workshop "Free boundary problems and random effects", Dortmund, 28-30 marzo 2011. Titolo: *Mean curvature flow in heterogeneous media.*

23. International Congress on Industrial and Applied Mathematics “ICIAM 2011”, Vancouver, 18–22 luglio 2011. Titolo: *Propagation of fronts in heterogeneous media*.
24. Workshop “Phase boundaries and random polymers”, Bath, 12–14 settembre 2011. Titolo: *Mean curvature flow in heterogeneous media*.
25. Workshop “Anisotropy 2012”, Varsavia, 28–31 marzo 2012. Titolo: *Plane-like minimizers in anisotropic media and differentiability of the stable norm*.
26. Summer school “Variational Methods for Evolving Objects”, Sapporo, 30 luglio – 3 agosto 2012. Titolo: *Variational problems in infinite dimensional spaces*.
27. Workshop “South-West PDE day 2012”, Cardiff, 4 settembre 2012. Titolo: *Entire solutions to semilinear equations in infinite dimensions*.
28. Workshop “Anisotropy 2013”, Varsavia, 4–5 aprile 2013. Titolo: *Nonconvex evolution problems*.
29. Workshop on “PDEs and Related Topics in Nonlinear Problems”, Hiroshima, 11–15 febbraio 2014. Titolo: *Variational models of charged droplets*.
30. “International Conference on Free Boundary Problems: Theory and Applications”, Cambridge, 23–27 giugno 2014. Titolo: *Obstacle problems in geometric evolutions*.
31. Workshop “Variational Methods for Evolution”, Oberwolfach, 14–20 dicembre 2014. Titolo: *Front propagation in stratified media*.
32. Workshop “Gradient flows: from theory to application”, Edinburgo, 20–24 aprile 2015. Titolo: *Mean curvature flow with obstacles*.
33. Summer school on “Geometric measure theory and calculus of variations: theory and applications”, Grenoble, 29 giugno – 3 luglio 2015. Titolo: *Nonlocal isoperimetric problems*.
34. Workshop “PDE 2015 – Theory and applications of partial differential equations”, Berlino, 30 novembre – 4 dicembre 2015. Titolo: *Nonlocal isoperimetric problems*.
35. Workshop “New Trends in nonlinear PDEs: from theory to applications”, Cardiff, 20 – 24 giugno 2016. Titolo: *Models of charged drops*.
36. Meeting on “Analysis and Numerics In Curvature Energies”, Freiburg (Germania), 26 – 27 luglio 2016. Titolo: *Evolution of planar networks*.
37. INDAM Intensive Period “Contemporary Research in elliptic PDEs and related topics”, Bari, 3–12 maggio 2017. Titolo: *An introduction to Mean Curvature Flow*.
38. Workshop on “Geometric Evolution Equations”, Regensburg, 5–8 marzo 2018. Titolo: *Evolution by mean curvature of multiple-phase systems*.
39. Conference on “Nonlocal interactions: Dislocations and beyond”, Bath, 11–14 giugno 2018. Titolo: *Homogenization of parabolic equations*.
40. Workshop on “Calculus of Variations”, Parigi, 25–27 giugno 2018. Titolo: *Fattening phenomena for nonlocal curvature flows*.
41. Symposium on “Homogenisation in Disordered Media”, Durham, 20–24 agosto 2018. Titolo: *Optimal configurations for the Heitmann-Radin energy*.
42. Moscow–Pisa Colloquium, Mosca, 1–5 ottobre 2018. Titolo: *Almost minimal configurations for the Heitmann-Radin energy*.

43. XXI Congresso UMI, Pavia, 2–7 settembre 2019. Titolo: *Variational models of charged drops*.
44. Workshop “Recent advances in the Calculus of Variations”, Münster, 16–19 settembre 2019. Titolo: *Almost minimal configurations for nonlocal energies*.
45. ESI Workshop “Modeling of Crystalline Interfaces and Thin Film Structures: a Joint Mathematics-Physics Symposium”, Vienna, 11–15 novembre 2019. Titolo: *The 0-fractional perimeter*.
46. Workshop “Nonlocal diffusion problems, nonlocal interface evolution”, Varsavia, 1–3 ottobre 2020. Titolo: *Fattening for nonlocal mean curvature flows*.
47. EIMI Program “Geometric and mathematical analysis and weak geometric structures”, San Pietroburgo, 22 marzo – 2 aprile 2021. Titolo: *Geometric flows of networks*.
48. ESI Workshop “Free Boundary Problems and Related Evolution Equations”, Vienna, 21–25 febbraio 2022. Titolo: *Isoperimetric clusters*.
49. Workshop “Calculus of Variations–Back to Carthage”, Cartagine, 16-20 maggio 2022. Titolo: *Long-time behaviour of fractional mean curvature flow*.
50. Portugal-Italy Conference on “Nonlinear Differential Equations and Applications”, Évora, 4-6 luglio 2022. Titolo: *An isoperimetric problem with capacitary repulsion*.
51. Workshop “Anisotropic isoperimetric problems & related topics”, Rome, 5–9 settembre 2022. Titolo: *Gradient flows in L^1* .
52. Workshop “Interfaces, Free Boundaries and Geometric Partial Differential Equations”, Oberwolfach, 11–16 febbraio 2024. Titolo: *An isoperimetric problem with capacitary repulsion*.
53. Workshop “Interfaces, Free Boundaries and Geometric Partial Differential Equations”, Oberwolfach, 11–16 febbraio 2024. Titolo: *An isoperimetric problem with capacitary repulsion*.
54. “VARANA 2024 (Variational analysis and applications)”, 77th Course of the International School of Mathematics “Guido Stampacchia”, Erice, 1–7 settembre 2024. Titolo: *Periodic partitions with minimal perimeter*.
55. “Calculus of Variations and PDE’s in Geometric Analysis”, Roma, 27–31 gennaio 2025. Titolo: *Lattice tilings with minimal perimeter and unequal volumes*.
56. “Nonlocal variational problems and PDEs”, L’Aquila, 31 marzo – 4 aprile 2025. Titolo: *Lattice tilings with minimal perimeter and unequal volumes*.
57. “Frontiers in Calculus of Variations and Applied Analysis”, Monaco di Baviera, 8–12 settembre 2025. Titolo: *Lattice tilings with minimal perimeter and unequal volumes*.

Ho tenuto conferenze in varie università e centri di ricerca, tra cui:

NYU, MIT, Univ. di Austin, Univ. di Tokyo, Univ. di Sapporo, UCL (Londra), Univ. di Bath, Univ. di Cambridge, Univ. di Cardiff, Univ. Di Warwick, Univ. di Bonn, Univ. di Lipsia, Max-Planck Institute (Lipsia), Univ. di Tübingen, TUM (Monaco di Baviera), Ecole Polytechnique (Parigi), College de France, Univ. di Orsay, Univ. di Parigi 6 “Jussieu”, Univ. di Parigi 9 “Dauphine”, Univ. di Tours, Univ. di Lione, Univ. di Marsiglia, Univ. di Orléans, Univ. Pompeu Fabra (Barcellona), Univ. di Linz, Univ. di Magdeburgo, Univ. di Edimburgo.

STUDENTI

Studenti di laurea: C. Geldhauser (Univ. di Tübingen, 2009, LM), N. Piazzalunga (Univ. di Padova, 2010, LT), M.T. Chiri (Univ. di Pisa, 2016, LM), M. Pozzetta (Univ. di Pisa, 2017, LM), M. Nesi (Univ. di Pisa, 2020, LT), A. Corveddu (Univ. di Pisa, 2020, LT), G. Cerase (Univ. di Pisa, 2023, LT), A. Cattafi (Univ. di Pisa, 2024, LT), C. Salamina (Univ. di Pisa, 2025, LT).

Studenti di dottorato: F. Dayrens (Univ. di Lione, in cotutela con S. Masnou, 2016), A. Pluda (Univ. di Pisa, 2016), D. Pagliardini (Scuola Normale Superiore di Pisa, in cotutela con A. Malchiodi, 2018), V. Pagliari (Univ. di Pisa, 2019), M. Pozzetta (Univ. di Pisa, 2020), F. Onoue (Scuola Normale Superiore, 2022), K. Bessas (Univ. di Pisa, 2023), L. Sciaraffia (Univ. di Pisa, in cotutela con A. Malchiodi, 2024), A. Prade (Ecole Polytechnique, in cotutela con M. Goldman, in corso).

ATTIVITÀ DIDATTICA

2025/2026: Analisi Matematica (Fisica) e Elementi di Calcolo delle Variazioni (Matematica).
 2024/2025: Analisi Matematica (Fisica) e Elementi di Calcolo delle Variazioni (Matematica).
 2023/2024: Analisi Matematica (Fisica) e Elementi di Calcolo delle Variazioni (Matematica).
 2022/2023: Analisi Matematica 2 (Matematica).
 2021/2022: Analisi Matematica 1 (Matematica).
 2020/2021: Analisi Matematica 2 (Matematica).
 2019/2020: Analisi Matematica 1 (Matematica).
 2018/2019: Analisi Matematica 2 (Matematica).
 2017/2018: Analisi Matematica 1 (Matematica).
 2016/2017: Analisi Matematica 1 (Ingegneria).
 2015/2016: Analisi Matematica 1 (Ingegneria) e Istituzioni di Analisi Matematica (Matematica).
 2014/2015: The total variation flow and the mean curvature flow (TUM, Monaco).
 2014/2015: Analisi Matematica 1 (Ingegneria) e Istituzioni di Analisi Matematica (Matematica).
 2013/2014: Analisi Matematica 1 (Ingegneria) e Istituzioni di Analisi Matematica (Matematica).
 2012/2013: Analisi Matematica 1 (Ingegneria) e Teoria delle Funzioni (Matematica).
 2011/2012: Analisi Matematica 2 (Ingegneria) e Analisi Reale e Complessa (Ingegneria).
 2010/2011: Analisi Matematica 1 (Ingegneria) e Singular limits for Ginzburg-Landau equations (Dottorato in Matematica).
 2009/2010: Analisi Matematica 1 (Ingegneria) e Analisi (Scuola Galileiana).
 2008/2009: Analisi Matematica 1 (Ingegneria) e Mean curvature flow (Dottorato in Matematica).
 2007/2008: Analisi Matematica 3 (Fisica) e Matematica e Statistica (Biologia).
 2006/2007: Analisi Matematica 3 (Fisica).
 2005/2006: Analisi Matematica 4 (Fisica) e Elementi di Calcolo delle Variazioni (Matematica).
 2004/2005: Analisi Matematica 3 e 4 (Fisica).
 2003/2004: Analisi Matematica 1 e 2 (Fisica) e Equazioni alle Derivate Parziali (Matematica).
 2002/2003: Equazioni della Fisica Matematica (Matematica).
 2001/2002: Calculus (Rutgers Univ.) e Istituzioni di Matematica (Geologia).
 2000/2001: Analisi Matematica 1 (Fisica) e Istituzioni di Matematica (Farmacia).
 1999/2000: Analisi Matematica 2 (Fisica).
 1998/2001: Analisi Matematica 1 (Fisica).

PUBBLICAZIONI

1. G. Bellettini and M. Novaga, *Minimal barriers for geometric evolutions*, J. Differential Eqs., vol. 139, n. 1, 76–103, 1997.
2. G. Bellettini and M. Novaga, *Barriers for a class of geometric evolutions problems*, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei, serie IX, vol. VIII, fascicolo 2, 119–128, 1997.
3. G. Bellettini and M. Novaga, *Comparison results between minimal barriers and viscosity solutions for geometric evolutions*, Ann. Sc. Norm. Sup. Pisa Cl. Sci. (4), volume XXVI, 97–131, 1998.
4. G. Bellettini, M. Novaga and M. Paolini, *An example of three dimensional fattening for linked space curves evolving by curvature*, Comm. Partial Differential Equations, vol. 23, 1475–1492, 1998.
5. G. Bellettini and M. Novaga, *Some aspects of De Giorgi's barriers for geometric evolutions*, in Proceedings of the School on Calculus of Variations, Pisa 1996, Springer-Verlag, Berlin, 115–151, 1999.
6. G. Bellettini and M. Novaga, *A result on motion by mean curvature in arbitrary codimension*, J. Differential Geom. and its Appl., vol. 11, 205–220, 1999.

7. G. Bellettini, M. Novaga and M. Paolini, *Facet-breaking for three dimensional crystals evolving by mean curvature*, Interfaces and Free Boundaries, vol. 1, 39–55, 1999.
8. M. Novaga and E. Paolini, *A computational approach to fractures in crystal growth*, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei, serie IX, vol. X, 47–56, 1999.
9. G. Bellettini, R. Goglionone and M. Novaga, *Approximation to driven motion by crystalline curvature in two dimensions*, Adv. Math. Sci. and Appl., vol. 10, 467–493, 2000.
10. G. Bellettini and M. Novaga, *Approximation and comparison for non-smooth anisotropic motion by mean curvature in $\mathbb{R}^N$* , Math. Mod. Meth. Appl. Sc., vol. 10 no. 1, 1–10, 2000.
11. G. Bellettini, M. Novaga and M. Paolini, *On a crystalline variational problem, part I: first variation and global L^∞ -regularity*, Arch. Rat. Mech. Anal., vol. 157, 165–191, 2001.
12. G. Bellettini, M. Novaga and M. Paolini, *On a crystalline variational problem, part II: BV-regularity and structure of minimizers on facets*, Arch. Rat. Mech. Anal., vol. 157, 193–217, 2001.
13. G. Bellettini, M. Novaga and M. Paolini, *Characterization of facet-breaking for nonsmooth mean curvature flow in the convex case*, Interfaces and Free Boundaries, vol. 3 n. 4, 415–446, 2001.
14. M. Novaga, *Soluzioni di tipo barriera*, Bollettino U.M.I., vol. 8, 131–142, 2001.
15. N. Dirr, S. Luckhaus and M. Novaga, *A stochastic selection principle in case of fattening for curvature flow*, Calc. Var. PDE, vol. 13 n. 4, 405–425, 2001.
16. L. Ambrosio, M. Novaga and E. Paolini, *Some regularity results for minimal crystals*, ESAIM Control Optim. Calc. Var., vol. 8, 69–103, 2002.
17. M. Novaga and E. Paolini, *Regularity results for some 1-homogeneous functionals*, Nonlinear Analysis Real World Appl., vol. 3 n. 4, 555–566, 2002.
18. G. Bellettini, V. Caselles and M. Novaga, *The total variation flow in $\mathbb{R}^N$* , J. Differential Eqs., vol. 184 n. 2, 475–525, 2002.
19. G. Bellettini, M. Novaga and G. Riey, *First variation of anisotropic energies and crystalline mean curvature for partitions*, Interfaces and Free Boundaries, vol. 5 n. 3, 331–356, 2003.
20. M. Novaga, *The total variation flow*, International Series of Numerical Mathematics, vol. 147, 225–236, 2003.
21. C. Mantegazza, M. Novaga and V. Tortorelli, *Motion by curvature of planar networks*, Ann. Sc. Norm. Sup. Pisa Cl. Sci. (5), vol. III, 235–324, 2004.
22. M. Lucia, C. Muratov and M. Novaga, *Linear vs. nonlinear selection for the propagation speed of the solutions of scalar reaction-diffusion equations invading an unstable equilibrium*, CPAM, vol. 57 n. 5, 616–636, 2004.
23. G. Bellettini, V. Caselles and M. Novaga, *Explicit solutions of the eigenvalue problem $-\operatorname{div} \left(\frac{Du}{|Du|} \right) = u$* , SIAM J. on Math. Anal., vol. 36 n. 4, 1095–1129, 2005.
24. M. Novaga and E. Paolini, *Regularity results for boundaries in $\mathbb{R}^2$ with prescribed anisotropic curvature*, Annali Mat. Pura e Appl., vol. 184 n. 2, 239–261, 2005.
25. M. Novaga and E. Paolini, *Stability of crystalline evolutions*, Math. Mod. Meth. Appl. Sc., vol. 15 n. 6, 1–17, 2005.
26. G. Bellettini, V. Caselles, A. Chambolle and M. Novaga, *Crystalline mean curvature flow of convex sets*, Arch. Rat. Mech. Anal., vol. 179 n. 1, 109–152, 2006.
27. G. Bellettini, M. Novaga and E. Paolini, *Global solutions to the gradient flow equation of a nonconvex functional*, SIAM J. on Math. Anal., vol. 37 n. 5, 1657–1687, 2006.
28. N. Dirr, M. Lucia and M. Novaga, *Γ -convergence of the Allen–Cahn energy with an oscillating forcing term*, Interfaces and Free Boundaries, vol. 8 n. 1, 47–78, 2006.
29. A. Chambolle and M. Novaga, *Convergence of an algorithm for anisotropic mean curvature motion*, SIAM J. on Math. Anal., vol. 37 n. 6, 1978–1987, 2006.
30. G. Bellettini, M. S. Gelli, S. Luckhaus and M. Novaga, *Deterministic equivalent for the Allen–Cahn energy of a scaling law in the Ising model*, Calc. Var. PDE, vol. 26 n. 4, 429–445, 2006.
31. G. Bellettini, M. Chermisi and M. Novaga, *Crystalline curvature flow of planar networks*, Interfaces and Free Boundaries, vol. 8 n. 4, 481–521, 2006.

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