

## CURRICULUM VITAE

**Name :** Sofonea Mircea-Traian.

**Date and Place of Birth :** June 25, 1957, Ilia, Romania.

**Rank :** Full Professor (Professeur de Classe Exceptionnelle).

**Service :** Director of the *Laboratoire de Mathématiques et Physique (LAMPS)* (2011-2019).

**Address :** *Laboratoire de Mathématiques et Physique (LAMPS)*, Université de Perpignan  
Via Domitia, 52 Avenue Paul Alduy, 66860 Perpignan, France, Phone: (33) 04 68 66 17 65,  
Fax: (33) 04 66 22 34.

**E-mail :** sofonea@univ-perp.fr

**Web :** <http://perso.univ-perp.fr/sofonea/>

### Education :

- 1980 B.S. in Mathematics, University of Bucharest, Romania.
- 1981 M.S. in Mathematics, University of Bucharest, Romania.
- 1988 Ph.D. in Mathematics, University of Bucharest, Romania.
- 1993 Habilitation à Diriger des Recherches, *Blaise Pascal* University, Clermont-Ferrand, France.

### Awards :

- Prize of Balkan Union of Mathematicians (1984).
- Honorary Member of *Institute of Mathematics* of the Romanian Academy of Sciences (since 2005).

**Citations** (Mathscinet) : **4502** citations at 01/11/2024, *h* index: **31**.

### Professional Experience :

- 1983–1990 Research Assistant, Institute of Mathematics, Bucharest, Romania.
- 1990–1994 Associate Professor, *Blaise Pascal* University, Clermont-Ferrand, France.
- 1994–present Professor, University of Perpignan Via Domitia, France.

**Areas of expertise and research interest :** multivalued operators, nonlinear inclusions, variational methods, variational and hemivariational inequalities, evolution equations, elasticity, viscoelasticity, viscoplasticity, contact mechanics, numerical methods for partial differential equations.

## Editorial Board :

- *Annals of AOSR, Series on Mathematics and its Applications.*
- *Annals of the University of Craiova (Mathematics and Computer Science Series).*
- *Applicable Analysis.*
- *Bulletin of PG University of Ploiesti, Series: Mathematics Informatics, Physics.*
- *IAENG International Journal of Applied Mathematics.*
- *International Journal of Applied Mathematics and Computer Sciences.*
- *Journal of Applied Mathematics and Statistics.*
- *Machines Dynamics Research.*
- *Mathematics and Mechanics of Solids (MMS).*
- *Revue d'Analyse Numérique et de Théorie de l'Approximation.*
- *Studia Universitatis Babes-Bolyai.*

**Reviewer :** Mathematical Reviews (1995–2004).

## Refereing :

- *Acta Applicandae Mathematicae.*
- *Advances in Mathematical Sciences and Applications.*
- *Annales de l'Université Blaise Pascal (Clermont-Ferrand II).*
- *Annales Polonici Mathematici.*
- *Applied Mathematics and Computation.*
- *Applied Mathematics and Optimization.*
- *Bulletin de la Société des Sciences Mathématiques de Roumanie.*
- *Bulletin of the Belgian Mathematical Society.*
- *Carpathian Journal of Mathematics.*
- *Comptes Rendus de l'Académie des Sciences de Paris.*
- *Computer Methods in Applied Mechanics and Engineering.*
- *Creative Mathematics and Informatics.*
- *Discrete and Continuous Dynamical Systems - Series B.*
- *Electronic Journal of Differential Equations.*
- *ESAIM Proceedings.*
- *ESAIM Journal for Control, Optimisation and Calcul of Variations.*
- *European Journal of Applied Mathematics.*
- *European Journal of Mechanics-A/Solids.*
- *Far East Journal of Mathematical Sciences.*
- *Finite Elements in Analysis and Design.*

- *Glasnik Matematicki.*
- *IMA Journal of Applied Mathematics.*
- *Indian Journal of Pure and Applied Mathematics.*
- *International Journal of Applied Mathematics.*
- *International Journal of Applied Mathematics and Computer Sciences.*
- *International Journal of Mechanical Sciences.*
- *International Journal of Non-Linear Mechanics.*
- *International Journal of Solids and Structures.*
- *Journal de Mathématiques Pures et Appliquées.*
- *Journal of Applied Analysis.*
- *Journal of Computational and Applied Mathematics.*
- *Journal of Elasticity.*
- *Journal of Engineering Mathematics.*
- *Journal of Inequalities and Applications.*
- *Journal of Integral Equations and Applications.*
- *Journal of Mathematical Analysis and Applications.*
- *Journal of Mathematics and its Applications/Annals of AOSR.*
- *Journal of Mathematical Sciences of the University of Tokyo.*
- *Machine Dynamics Problems.*
- *Machine Dynamics Research.*
- *Maghreb Mathematical Review.*
- *Mathematical Engineering in Industry.*
- *Mathematical Modelling and Analysis.*
- *Mathematical Modelling and Numerical Analysis (M<sup>2</sup>AN).*
- *Math-Recherche et Applications.*
- *Mediterranean Journal of Mathematics.*
- *Nonlinear Analysis - Modelling and Control.*
- *Nonlinear Analysis - Theory, Methods & Applications.*
- *Nonlinearity.*
- *Publicacions Matemàtiques.*
- *Quarterly Journal of Applied Mathematics and Mechanics.*
- *Revue Roumaine des Sciences et Technique, Série Mécanique Appliquée.*
- *Revue d'Analyse Numérique et de Théorie de l'Approximation.*
- *SIAM Journal of Applied Mathematics.*
- *SIAM Journal of Mathematical Analysis.*
- *SIAM Journal of Numerical Analysis.*
- *Studia Universitatis Babeş-Bolyai.*
- *Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM).*
- *Zeitschrift für Angewandte Mathematik und Physics (ZAMP).*

## Professional activities :

- Co-organizer, *International Colloquium on Rheology of Geomaterials*, Bucharest (Romania), August 1990.
- Organizer, *2<sup>nd</sup> Catalan Days on Applied Mathematics*, Font-Romeu–Odeillo (France), November 1995.
- Chair, *Biennial Joint Conference on Engineering Systems, Design and Analysis (ESDA '96)*, Montpellier (France), July 1996.
- Organizer, *Contact Problems in Elasticity and Viscoplasticity*, Workshop, Perpignan (France), June 1997.
- Organizer, *Alternative to the Finite Element Method*, Workshop, Perpignan (France), December 1997.
- Organizer, *Mathematical Modelling and Applications*, Workshop, Perpignan(France), June 1998.
- Chair, Workshop on Analysis and Control of Differential Systems, Constanta (Romania), August 1998.
- Organizer, *Modelling and Control of Systems*, Workshop, Perpignan (France), March 1999.
- Chair, *7<sup>th</sup> Conference on Nonlinear Analysis, Numerical Analysis, Applied Mathematics and Informatics* Constanta (Romania), May 1999.
- Co-organizer, *Mathematical Theory of Networks and Systems (MTNS 2000)*, Perpignan (France), June 2000.
- Chair, *5<sup>th</sup> French-Romanian Conference on Applied Mathematics*, Constanta (Romania), August 2000.
- Organizer, *6<sup>th</sup> French-Romanian Conference on Applied Mathematics*, Perpignan (France), September 2002.
- Chair, *International Conference Friction 2002 - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw (Poland), December 2002.
- Chair, *International Conference Friction 2004 - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw (Poland), Mai 2004.
- Minisymposium organizer, *8<sup>th</sup> French-Romanian Conference on Applied Mathematics*, Chambéry (France), August 2006.
- Minisymposium organizer, *4<sup>th</sup> Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2004)* Jyväskylä (Finland), July 2004.
- Chair, *International Conference Friction 2008 - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw (Poland), June 2008.

- Minisymposium organizer, 8<sup>th</sup> World Congress of Computational Mechanics (*WCCM8*) and 5<sup>th</sup> Congress on Computational Methods in Applied Sciences and Engineering (*ECCOMAS 2008*) Venice (Italy), July 2008.
- Minisymposium organizer, 9<sup>th</sup> French-Romanian Conference on Applied Mathematics, Braşov (Romania), August 2008.
- Chair, International Conference *Friction 2010 - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw (Poland), June 2010.
- Minisymposium organizer, *AMS 2011 Spring Central Section Meeting*, Iowa City (USA), March 2011.
- Organizer, 19<sup>th</sup> French-Polish Seminar of Mechanics Mathematics, Perpignan (France), June 2011.
- Chair, International Conference *Friction 2010 - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw (Poland), Mai 2012.
- Minisymposium organizer, 11<sup>th</sup> French-Romanian Conference on Applied Mathematics, Bucharest (Romania), August 2012.
- Organizer, 21<sup>th</sup> French-Polish Seminar of Mechanics Mathematics, Perpignan (France), May 2013.
- Minisymposium organizer, *2013 World Congress on Global Optimization*, Huangshan (China), July 2013.
- Organizer, *Modelling and Analysis of Nonlinear Problems*, Workshop, Perpignan (France), June 2014.
- Organizer, *Perpignan's Days on Applied Mathematics*, Workshop, Perpignan (France), June 2015.
- Minisymposium organizer, 27<sup>th</sup> *IFIP TC7 Conference on System Modelling and Optimization*, Sophia-Antipolis (France), June 2015.
- Organizer, *Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2016)*, May 2016 (**240 participants from 30 countries**), see  
<http://lamps.univ-perp.fr/LAMPS/etamm2016/Accueil.html>
- Minisymposium organizer, *Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2016)*, Perpignan (France), May 2016.
- Minisymposium organizer, 13<sup>th</sup> French-Romanian Conference on Applied Mathematics, Iaşi (Romania), August 2016.
- Minisymposium organizer, *Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2018)*, Krakow (Poland), June 2018.
- Organizer, *Perpignan's Days on Applied Mathematics*, Workshop, Perpignan (France), June 2019.
- Minisymposium organizer, *Variational and Hemivariational Inequalities*, online, April 2021.

- Co-organizer, 28<sup>th</sup> French-Polish Seminar of Mechanics Mathematics, Perpignan (France), October 2021.
- Co-organizer, Nonsmooth Problems with Applications in Mechanics, Bedlewo (Poland) June 2023.
- Co-organizer, 29<sup>th</sup> French-Polish Seminar of Mechanics Mathematics, Gdansk (Pologne), October 2023.
- Organizer, 30<sup>th</sup> French-Polish Seminar of Mechanics Mathematics, Perpignan (France), October May 2024.

**Past doctoral students :**

1. S. Djabi, *Functional methods in viscoplasticity*, December 1994.
2. M. Rochdi, *Variational analysis of some boundary value problems in viscoplasticity*, January 1997.
3. A. Amassad, *Elasto-visco-plastic problems with friction*, December 1997.
4. S. Drabla, *Variational analysis of some boundary value problems in elasticity and viscoplasticity*, June 1999.
5. B. Teniou, *Functional methods in the study of elastic-viscoplastic contact problems*, January 2000.
6. O. Chau, *Variational and numerical analysis of some boundary value problems in contact mechanics*, June 2000.
7. B. Awbi, *Variational analysis of some viscoelastic and viscoplastic problems with friction*, November 2001.
8. L. Selmani, *Contact boundary value problems with or without friction for elastic-viscoplastic materials*, April 2002.
9. A. Matei, *Mathematical Modelling in Contact Mechanics*, September 2002.
10. T.-V. Hoarau-Mantel, *Mathematical and numerical analysis of some problems in Contact Mechanics*, December 2003.
11. A. Rodríguez-Arós, *Variational and numerical analysis of contact problems in viscoelasticity with large memory*, March 2005.
12. N. Hemic, *Variational analysis of contact problems with adhesion*, March 2005.
13. M. Selmani, *Viscoelastic contact problems with adhesion*, June 2006.
14. Y. Ouafik, *Contributions to the mathematical and numerical study of piezoelectric contact*, October 2007.
15. R. Arhab, *Mathematical and numerical study of piezoelectric contact with adhesion*, March 2008.

16. M. Dalah, *Analysis of antiplane contact problems problèmes for piezoelectric materials*, May 2008.
17. R. Tarraf, *Analysis of piezoelectric contact with adhesion or dammage*, June 2008.
18. Z. Lerguet, *Analysis of some piezoelectric contact problems with friction and adhesion*, June 2008.
19. Y. Ayyad, *Variational and numerical analysis of some dynamic contact problems*, July 2008.
20. F. Patrulescu, *Ordinary differential equations and contact problems: modeling, analysis and numerical methods*, November 2012.
21. A. Farcas, *Positive linear operators and history-dependent operators in contact methods*, November 2013.
22. A. Ramadan, *Modeling and analysis of contact problems with normal compliance and unilateral constraint*, October 2014.
23. D. Danan, *Modeling, analysis and numerical simulations of contact problems*, July 2016.
24. A. Benseghir, *Nonlinear evolutionary problems with applications d'évolution non linéaires at applications*, April 2017.
25. Y. Suleiman, *Variational and numerical analysis of sliding contact*, May 2017.
26. A. Benraouda, *Convergence results for variational inequalities with applications in Contact Mechanics*, June 2018.
27. H. Hechaichi, *Differential inclusions, variational inequalities and applications*, June 2019.
28. M. Couderc, *Analysis and control of some boundary value problems in Contact Mechanics*, October 2020.

**Short term visits including colloquia talks :**

- University of Sétif, Algeria: June 1992, June 1993, December 2004.
- Worcester Polytechnical Institute, Worcester, Massachusetts, USA: June 1996, April 1998.
- University of Lleida, Spain: November 1996, November 1997.
- University of Valencia, Spain: February 1997, July 2009, June 2013.
- University of Santiago de Compostela, Spain: April 1997, March 2000, December 2002, December 2003, March 2005.
- Oakland University, Rochester, Michigan, USA: April 1998, September 2012, April 2015, July 2023.

- University of Iowa, Iowa City, USA: April 1998, April 2001, Mai 2007, March 2011, April 2015, October 2015, August 2023.
- Ohio University, Athens, Ohio, USA: April 1998.
- University of Iassy, Romania: July 1998, April 2000.
- University of Meknes, Marrocco: April 1999.
- University of Craiova, Romania: February 2001, May 2002, May 2003, October 2009, October 2011, October 2012, May 2017.
- Polytechnical University, Warsaw, Poland: December 2001, December 2002, June 2004, June 2005, June 2006, Mai 2008, December 2009, June 1010, May 2012, October 20123, December 2013, October 2016.
- Institute of Fundamental Technological Research, Warsaw, Poland: Mai 2003, June 2004, October 2013.
- Institut of Mathematics of Czech Academy of Sciences, Prague, Czech Republic: November 2004, October 2005, October 2007, October 2008, September 2009, September 2010.
- University of Stuttgart, Stuttgart, Germany: December 2004.
- Technical University of Civil Engineering, Bucharest, Romania: June 2007, June 2008.
- Jagiellonian University, Krakow, Poland: June 2005, Mai 2008, November 2009, December 2010, May 2012, May 2013, June 2016, October 2016, May 2018.
- Institute of Mathematics of Romanian Academy, Bucarest, Romania: October 2009, September 2010, November 2010, December 2011.
- Zhejiang University, Hangzhou, China: July 2013, October-November 2014.
- Guangxi University of Nationalities, Nanning, China: July 2013, July 2014, June 2017, March 2024.
- Xi'an Jiaotong University, Xi-an, China: June 2014, June 2017, October 2018, June 2024.
- University of Electronic Science and Technology, Chengdu, China: November 2014, September 2018, October 2019, February 2024, June 2024.
- Shichuan University, Chengdu, China: November 2014, November 2019.
- Universidad Austral, Rosario, Argentina: July-August 2019, November-December 2022, November 2023-Janvier 2024, April-Mai 2024.
- Normal University of Yulin, China: November 2019.
- University of Bergen, Norway: Octobre 2022.
- Rochester Institute of Technology, Rochester, NY August 2023.



## PUBLICATIONS

### Books :

1. I. R. Ionescu & **M. Sofonea**, Functional and Numerical Methods in Viscoplasticity, *Oxford University Press*, Oxford, 1993 (265 pages).
2. W. Han & **M. Sofonea**, Quasistatic Contact Problems in Viscoelasticity and Viscoplasticity, *Studies in Advanced Mathematics, Vol. 30, American Mathematical Society, Providence, RI –International Press, Somerville, MA*, 2002 (442 pages).
3. M. Shillor, **M. Sofonea** & J.J. Telega, Models and Variational Analysis of Quasistatic Contact, *Lecture Notes in Physics, Vol. 655, Springer*, Berlin Heidelberg (262 pages).
4. **M. Sofonea**, W. Han & M. Shillor, Analysis and Approximation of Contact Problems with Adhesion or Damage, *Pure and Applied Mathematics, Vol. 276*, Chapman & Hall/CRC Press, New York, 2006 (220 pages).
5. **M. Sofonea** & A. Matei, Variational Inequalities with Applications. A Study of Antiplane Frictional Contact Problems, *Advances in Mechanics and Mathematics, Vol. 18*, Springer, New York, 2009 (230 pages).
6. **M. Sofonea** & A. Matei Mathematical Models in Contact Mechanics, *London Mathematical Society Lecture Notes Series Vol. 398*, Cambridge University Press, Cambridge, 2012 (280 pages).
7. S. Migórski, A. Ochal & **M. Sofonea**, Nonlinear Inclusions and Hemivariational Inequalities. Models and Analysis of Contact Problems *Advances in Mechanics and Mathematics, Vol. 26*, Springer, New York, 2013 (285 pages).
8. **M. Sofonea** & S. Migórski, *Variational-Hemivariational Inequalities with Applications*, Monographs and Research Notes in Mathematics, CRC Press, Boca Raton, 2018 (311 pages).
9. **M. Sofonea**, *Well-posed Nonlinear Problems. A Study of Mathematical Models of Contact*, Advances in Mechanics and Mathematics **50**, Birkhäuser, Cham, 2023 (405 pages).
10. **M. Sofonea** & S. Migórski, *Variational-Hemivariational Inequalities with Applications*, Monographs and Research Notes in Mathematics, CRC Press, Boca Raton, *Second Edition*, 2024 (339 pages).

### Textbooks and Monographs :

1. **M. Sofonea**, Problèmes mathématiques en élasticité et viscoplasticité, *Blaise Pascal* University, Clermont-Ferrand, 1991 (Textbook for graduate students, 148 pages).
2. **M. Sofonea**, Problèmes non-linéaires dans la théorie de l'élasticité, University of Sétif, 1995 (Textbook for graduate students, 97 pages).
3. **M. Sofonea**, A. Amassad & M. Rochdi, Análisis variacional de algunos problemas de contacto en viscoplasticidad, Publicacións do Departamento de Matemática Aplicada, Universidade de Santiago de Compostela, No. 11, 1997 (Research monograph, 77 pages).
4. A. D. Rodríguez–Arós, **M. Sofonea** & J. M. Viaño, El problema de Signorini en viscoelasticidad con memoria larga, Publicacións do Departamento de Matemática Aplicada, Universidade de Santiago de Compostela, No. 32, 2003 (Research monograph, 98 pages).

### Book Chapters :

1. M. Barboteu & **M. Sofonea**, Modelling of Piezoelectric Contact Problems, Chapter 25 in *Recent Advances in Contact Mechanics*, G. E. Stravoulakis (ed.), Springer, Berlin 2013, p. 415–431.
2. S. Migorski, A. Ochal & **M. Sofonea**, A Class of History-dependent Inclusions with Applications to Contact Problems, Chapter 3 in *Optimization and Control Techniques and Applications*, Springer Proceedings in Mathematics & Statistics, Vol. 86, H. Xu et al. (eds.), Springer, New York, 2014, p. 45–74.
3. **M. Sofonea**, A Class of Mixed Variational Problems with Applications in Contact Mechanics, Chapter 30 in *Advances in Global Optimization*, Springer Proceedings in Mathematics & Statistics, Vol. 95, D. Gao et al. (eds.), Springer, New York, 2015, p. 305–314.
4. S. Migórski, A. Ochal & **M. Sofonea**, Evolutionary Inclusions and Hemivariational Inequalities, Chapter 2 in *Advances in Variational and Hemivariational Inequalities*, Advances in Mechanics and Mathematics, Vol. 33, W. Han et al. (eds.), Springer, New York, 2015, p. 37–62.

5. M. Barboteu, D. Danan & **M. Sofonea**, A Hyperelastic Dynamic Frictional Contact Model with Energy-Consistent Properties, Chapter 10 in *Advances in Variational and Hemivariational Inequalities*, Advances in Mechanics and Mathematics, Vol. 33, W. Han et al. (eds.), Springer, New York, 2015, p. 243–270.
6. **M. Sofonea**, S. Migórski & A. Ochal, Two History-dependent Contact Problems, Chapter 14 in *Advances in Variational and Hemivariational Inequalities*, Advances in Mechanics and Mathematics, Vol. 33, W. Han et al. (eds.), Springer, New York, 2015, p. 345–369.
7. **M. Sofonea**, Variational Analysis of a Quasistatic Contact Problem, Chapter 14 in *Intelligent Mathematics II : Applied Mathematics and Approximation Theory*, G.A. Anastassiou and O. Duman (eds.), Springer, Heidelberg, 2016, p. 241–257.
8. P. Kalita, S. Migórski & **M. Sofonea**, A Multivalued Variational Inequality with Unilateral Constraints, *System Modeling and Optimization*, IFIP Advances in Information and Communication Technology Series, Springer, New York, 2017, éditeurs L. Bociu et al., p. 302–311.
9. A. Rodríguez-Arós, M.T. Cao-Rial and **M. Sofonea**, A Piezoelectric Elastic Beam Model with Normal Compliance Contact, *System Modeling and Optimization*, IFIP Advances in Information and Communication Technology Series, Springer, New York, 2017, éditeurs L. Bociu et al., p. 442–451.
10. S. Migórski & **M. Sofonea**, A History-dependent Variational-Hemivariational Inequality in Contact Mechanics, Chapter 8 in *Mathematical Modelling in Mechanics*, Advanced Structured Materials, Vol 69, F. dell’Isola et al. (eds.), Springer, Singapore, 2017, p. 123–134.
11. **M. Sofonea**, W. Han & M. Barboteu, A Variational-Hemivariational Inequality in Contact Mechanics, Chapter 16 in *Mathematical Modelling in Mechanics*, Advanced Structured Materials, Vol 69, F. dell’Isola et al. (eds.), Springer, Singapore, 2017, p. 251–264.
12. **M. Sofonea**, Optimal Control of Variational Inequalities with Applications to Contact Mechanics, Chapter 13 in *Current Trends in Mathematical Analysis and Its Interdisciplinary Applications*, H. Dutta et al. (eds.), Springer Nature Switzerland, Basel, 2019, p. 443–487.
13. **M. Sofonea** & Y. Xiao, Sweeping Process Arguments in the Analysis and Control of a Viscoelastic Frictional Contact Problem, Chapter 6 in *Deterministic and Stochastic Optimal Control and Inverse Problems*, B. Jadamba et al. (eds.), CRC Press, Boca Raton, 2020 , p. 83–109.

**Proceedings, Edited volumes and Special Issues (Editor) :**

1. **M. Sofonea** & J.-N. Corvellec, Proceedings of the 2<sup>nd</sup> Catalan Days on Applied Mathematics, *Presses universitaires de Perpignan*, 1995 (253 pages).
2. **M. Sofonea** & J. M. Viaño, Mathematical Modelling and Numerical Analysis in Solid Mechanics, *Int. J. Appl. Math. and Comp. Sci.* 12, 1, 2002 (special issue, 137 pages).
3. M. Iosifescu, **M. Sofonea** & V. Radulescu, Proceedings of 6<sup>th</sup> French-Romanian Conference on Applied Mathematics, *Ann. Univ. Craiova, Math-Info* 30, 2003 (232 pages).
4. C. Niculescu & **M. Sofonea**, *Bull. Soc. Sci. Math. Roumanie* 48 (96), 2005 (special issue, 258 pages).
5. **M. Sofonea** & J. Bajkowski, *Machine Dynamics Research* 35 (1), 2011 (special issue, 134 pages).
6. **M. Sofonea** & J. Bajkowski, *Machine Dynamics Research* 37 (1) (2013) (special issue, 112 pages).
7. S. Migórski, M. Shillor & **M. Sofonea**, *Nonlinear Analysis Series B: Real World Applications* 22 (2015) (special issue on Contact Mechanics, 224 pages).
8. W. Han, S. Migórski & **M. Sofonea**, *Advances in Variational and Hemivariational Inequalities*, Advances in Mechanics and Mathematics 33, Springer, New York, 2015 (384 pages).
9. F. dell’Isola, **M. Sofonea** & D. Steigmann, *Mathematical Modelling and Mechanics, Advanced Structured Materials*, Vol 69, Springer, Berlin, 2017 (328 pages).
10. **M. Sofonea**, *Mathematics and Mechanics of Solids* (2018) (special issue on Inequality Problems in Contact Mechanics, 308 pages).
11. W. Han, S. Migórski and **M. Sofonea**, *Journal of Evolution Equations and Control Theory* 9(2020) (special issue dedicated to Professor Meir Shillor on the occasion of his 70th birthday, 252 pages).
12. W. Han, A. Ochal & **M. Sofonea**, *Communications in Nonlinear Science and Numerical Simulation* (2021) (special issue dedicated to Professor Stanislaw Migorski on the occasion of his 60th birthday, 251 pages).
13. **M. Sofonea** & W. Han, *Fixed Point Theory and Algorithms for Sciences and Engineering* (2022) (topical collection “Contact Mechanics and Engineering Applications” 213 pages).
14. X. Cheng, S. Migorski & **M. Sofonea**, *Nonlinear Analysis Series B: Real World Applications* 72 (2023) (special issue dedicated to Professor Weimin Han on the occasion of his 60th birthday, 206 pages).
15. S. Migorski & **M. Sofonea**, *Nonsmooth Problems with Applications in Mechanics*, Volume 127 Banach Center Publications, Polish Academy of Sciences, Warszawa, 2024 (276 pages).

**Research papers published or accepted for publication in refereed journals :**

1. **M. Sofonea**, Sur l'écoulement de Poiseuille d'un fluide rigide-viscoplastique de Bingham, *St. Cerc. Mat.* 34 (1982), 388-394.
2. **M. Sofonea**, Variational Inequalities with Blocking Property, *Int. J. Engrg. Sci.* 20 (1982), 1001-1007.
3. **M. Sofonea**, Sur l'écoulement de deux fluides de Bingham dans une conduite, *Rev. Roum. Sci. Tech.-Méc. Appl.* 27 (1982), 45-56.
4. V. Sofonea & **M. Sofonea**, On the existence of optimal solutions of the optical Bloch equations, *Ann. Univ. Timisoara, St. Fiz.* 20 (1982), 9-16.
5. I. R. Ionescu & **M. Sofonea**, A Variational Formulation of a Boundary Value Problem in the Study of the Bingham Fluid, *Rev. Roum. Sci. Tech.-Méc. Appl.* 30 (1985), 357-363.
6. I. R. Ionescu, I. Rosca & **M. Sofonea**, A Variational Method for Nonlinear Multivalued Operators, *Nonlinear Analysis, Theory, Methods and Applications* 9 (1985), 259-273.
7. I. Rosca & **M. Sofonea**, A Variational Method in the Study of the Equation  $Au + \partial\beta(Ku) \ni f$ , *Ann. Univ. Bucarest, Math.* 34 (1985), 52-60.
8. **M. Sofonea**, Une méthode variationnelle pour une classe d'équations non-linéaires dans les espaces de Hilbert, *Bull. Math. Soc. Sci. Math. Roumanie* 30 (1986), 47-55.
9. I. R. Ionescu & **M. Sofonea**, The Blocking Property in the Study of the Bingham Fluid, *Int. J. Engrg. Sci.* 24 (1986), 289-297.
10. I. R. Ionescu, I. Rosca & **M. Sofonea**, On the Energetic Space for a Linear Operator, *Ann. Univ. Bucarest, Math.* 35 (1986), 19-24.
11. I. R. Ionescu & **M. Sofonea**, Quasistatic Processes for Elastic-Visco-Plastic Materials, *Quart. Appl. Maths.* 46 (1988), 229-243.
12. **M. Sofonea**, On Existence and Uniqueness of the Solution of a Dynamic Elastic-Visco-Plastic Problem, *Ann. Univ. Bucarest, Math.* 37 (1988), 53-59.
13. **M. Sofonea**, On Existence and Behaviour of the Solution of two Uncoupled Thermo-Elastic-Visco-Plastic Problems, *Ann. Univ. Bucarest, Math.* 38 (1989), 56-65.
14. **M. Sofonea**, A Fixed Point Method in Viscoplasticity with Strain Hardening, *Rev. Roum. Math. Pures et Appl.* 34 (1989), 553-560.
15. **M. Sofonea**, Quasistatic Processes for Elastic-Visco-Plastic Materials with Internal State Variables, *Ann. Sci. Univ. Blaise Pascal, Sér. Math.* 25 (1989), 47-60.
16. **M. Sofonea**, Evolution Problems for a Class of Thermo-Viscoplastic Materials, *St. Cerc. Mat.* 42 (1990), 57-72.
17. **M. Sofonea**, Some Remarks on the Behaviour of the Solution in Dynamic Processes for Rate-Type Models, *Journal of Applied Mathematics and Physics (ZAMP)* 41 (1990), 656-668.

18. **M. Sofonea**, Some Remarks concerning a Class of Nonlinear Evolution Equations in Hilbert Spaces, *Ann. Sci. Univ. Blaise Pascal, Sér. Math.* 25 (1990), 13-20.
19. **M. Sofonea**, On Existence and Behaviour of the Solution in Quasistatic Processes for Rate-Type Viscoplastic Models, *Ann. Sci. Univ. Blaise Pascal, Sér. Math.* 28 (1992), 255-271.
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300. A. Ochal, W. Przkadka, **M. Sofonea** & D.A. Tarzia, Modelling, Analysis and Numerical Simulation of a Spring-Rods System with Unilateral Constraints, *Mathematics and Mechanics of Solids* 29 (2024), 246–263.
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302. C. Gariboldi, A. Ochal, **M. Sofonea** & D.A. Tarzia, A Convergence Criterion for Elliptic Variational Inequalities, *Applicable Analysis* 103 (2024), 1810–1830.
303. **M. Sofonea** & D.A. Tarzia, A Convergence Criterion for a Class of Stationary Inclusions in Hilbert Spaces, *Axioms* 2024, 13, 52, <https://doi.org/10.3390/axioms13010052>.
304. **M. Sofonea** & D.A. Tarzia, Convergence Criteria for Fixed Point Problems and Differential Equations, *Mathematics* 2024, 12, 395, <https://doi.org/10.3390/math12030395>.
305. **M. Sofonea** & A. Rodriguez Aros, A Two-dimensional Elastic Contact Problem with Unilateral Constraints, *Mathematics and Mechanics of Solids*, 29 (2024), 2016–2035.
306. **M. Sofonea** & D.A. Tarzia, Convergence Results for History-dependent Variational Inequalities, *Axioms* 2024, 13, 316, <https://doi.org/10.3390/axioms130150316>.
307. **M. Sofonea** & D.A. Tarzia, Well-posedness and Convergence Results for Elliptic Hemivariational Inequalities, *Applied Set-Valued Analysis and Optimization* 7 (2025), 1–21.

308. **M. Sofonea** & D.A. Tarzia, Modelling and Analysis of a Viscoelastic Contact Problem with Unilateral Constraints, *Journal of the Spanish Society of Applied Mathematics (SeMA Journal)*, <http://doi.org/10.1007/s40324-024-00365-5>.
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### Research papers published in proceedings :

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2. I. R. Ionescu & **M. Sofonea**, Existence, Stability and Large Time Behaviour of the Solution for a Nonlinear Viscoelastic Problem, *Equadiff 6, Enlarged abstracts*, J. Vosmansky Ed., University J.E. Purkyne, Brno, 1985, 55-56.
3. **M. Sofonea**, On Existence and Uniqueness of the Solution of a Dynamic Elastic-Visco-Plastic Problem, *Proceedings of Workshop on Differential Equations*, S. Sburlan Ed., Technical University of Constanta, 1986, 57-64.
4. **M. Sofonea**, On Existence and Behaviour of the Solution of Two Uncoupled Thermo-Elastic-Visco-Plastic *Proceedings of Conference of Applied Mathematics and Mechanics*, C. Iacob Ed., Technical University of Cluj-Napoca, 1988, 117-127.
5. **M. Sofonea**, A Fixed Point Method in the Study of Existence and Numerical Approach of the Solution in Quasistatic Rate-Type Viscoplasticity, *Proceedings of International Workshop on Mechanism Design and Analysis* (colloque ASME), C. Bohatier & B.A. Ovunc Eds., IFMA, Clermont-Ferrand, 1993, 97-100.
6. C. Bajer, C. Bohatier & **M. Sofonea**, On Existence and Numerical Approach of the Solution for Rigid-Viscoplastic Materials with Friction, *Proceedings of 3rd World Congress on Computational Mechanics*, T. Kawai Ed., Chiba, 1994, 1782-1783.
7. C. Bajer, C. Bohatier & **M. Sofonea**, On an Impact Problem in Dynamic Plasticity, *Proceedings of 4th International Conference in Computational Plasticity - Fundamentals and Applications*, D.R.J. Owen & E. Oñate Eds., Pineridge Press, Swansea, 1995, 1935-1946.
8. **M. Sofonea**, Quasistatic Contact Problem in Rate-Type Viscoplasticity, *Proceedings of 9th International Conference on Finite Elements in Fluids - New Trends and Applications*, M. Morandi Cecchi, K. Morgan, J. Périaux, B.A. Schrefler & O.C. Zienkiewicz Eds., Dipartimento di Matematica Pura ed Applicada, Università di Padova, 1995, 999-1008.

9. M. Rochdi, **M. Sofonea** & I. Rosca, On Existence, Behaviour and Numerical Approach of the Solution for Contact Problems in Rate-Type Viscoplasticity, *Proceedings of 3rd Biennial Joint Conference On Engineering Systems, Design and Analysis (ESDA '96)*, A.B. Sabir, C. Bohatier, M.G. Fertis, G.T. Tsatsaronis, R.J. Krane & K.M. Abbott Eds., Montpellier, 1996, Vol. 1, 87-92.
10. A. Amassad & **M. Sofonea**, Differential Inclusions with Applications to Elastic Contact Problems, *Proceedings of Third Catalan Days on Applied Mathematics*, J. Chavarriaga & J. Giné Eds., Fundació Publica Institut d'Estudis Ilerdencs de la Deputació de Lleida, 1996, 205-215.
11. W. Han & **M. Sofonea**, On Numerical Approximation of a Frictionless Contact Problem for Elastic-Viscoplastic materials, *Proceedings of Fifth International Conference on Integral Methods and Engineering (IMSE'98)*, B. Bertram, C. Constanda & A. Struthers Eds., Chapman & Hall/CRC Reserch Notes in Mathematics, Vol. 418, 2000, 173-178.
12. J. R. Fernández-García, W. Han, M. Shillor & **M. Sofonea**, Recent Advances on Variational and Numerical Analysis in Contact Mechanics, *Proceedings of Fourteenth International Symposium on Mathematical Theory of Networks and Systems (MTNS 2000)*, Perpignan, 2000, CD-ROM (21 pages).
13. J. R. Fernández-García, **M. Sofonea** & J. M. Viaño, Numerical Approach of a Frictionless Contact Problem for Elastic-Viscoplastic Materials with Normal Compliance, *Proceedings of Fourteenth International Symposium on Mathematical Theory of Networks and Systems (MTNS 2000)*, Perpignan, 2000, CD-ROM (9 pages).
14. B. Awbi, W. Han & **M. Sofonea**, Variational and Numerical Analysis of a Frictional Contact Problem for Viscoelastic Bodies, *Proceedings of Third European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2000)*, Barcelona, 2000, CD-ROM (20 pages).
15. J. R. Fernández-García, **M. Sofonea** & J. M. Viaño, Numerical Analysis of two Frictionless Contact Problems for Elastic-Viscoplastic Materials, *Proceedings of Third European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2000)*, Barcelona, 2000, CD-ROM (19 pages).
16. L. Selmani & **M. Sofonea**, Analysis of a Viscoelastic Contact Problem with Wear, *Proceedings of Third International Conference on Applied Mathematics and Engineering Sciences (CIMASI 2000)*, Casablanca, 2000, CD-ROM (6 pages).
17. El H. Essoufi & **M. Sofonea**, Equations d'évolution non linéaires et applications en viscoélasticité, *Proceedings of Third International Conference on Applied Mathematics and Engineering Sciences (CIMASI 2000)*, Casablanca, 2000, CD-ROM (6 pages).
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57. M. Barboteu & **M. Sofonea**, Parametric study of a contact problem with normal compliance and unilateral constraint, *Proceedings of EUROMECH 514 “New Trends in Contact Mechanics”*, Cargèse, France, 2012, M. Raous and P. Wriggers Eds., p. 67–68.
58. M. Barboteu, F. Pătrulescu, A. Ramadan & **M. Sofonea**, On the Behaviour of the Solution to a Viscoplastic Contact Problem, *Advances in Mathematics. Invited Contributions to the Seventh Congress of Romanian Mathematicians*, Brasov 2001, L. Beznea et al. Eds., Editura Academiei Române, Bucarest, 2013, 75-88.
59. **M. Sofonea**, History-dependent Variational Inequalities in Contact Mechanics, PCM-CMM-2015 - 3rd Polish Congress of Mechanics & 21st Computer Methods in Mechanics, 2015, Short Papers, Vol 1, éditeurs Kleiber et al., Gdansk 2015, p. 137–138.
60. **M. Sofonea** & M. Barboteu, Modelling and Analysis of a Contact Problem with Unilateral Constraint, PCM-CMM-2015 - 3rd Polish Congress of Mechanics & 21st Computer Methods in Mechanics, Short Papers, Vol 1, éditeurs Kleiber et al., Gdansk 2015, p. 249–250.

## PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. Euromech 175, Viscoplasticity, Bucharest, Romania, September 1983.
2. Balcaniade of Young Mathematicians, Sofia, Bulgaria, August 1984.
3. Equadif VI, Brno, Tcheck Republic, August 1985.
4. Euromech 196, Rocks and Soils Rheology, Bucharest, Romania, April 1985.
5. Workshop on Differential Equations and Optimal Control, Bucharest, Romania, September 1985.
6. 5 *th* Bulgarian Conference on Mechanics, Varna, Bulgaria, September 1985.
7. Workshop on Differential Equations, Constanta, Romania, September 1986.
8. International Colloquium on Rheology of Geomaterials, Bucarest, Romania, August 1990.
9. International Workshop on Mechanism, Design and Analysis, Clermont-Ferrand, France, Mai 1993.
10. 3 *rd* World Congress in Computational Mechanics, Chiba, Japan, August 1994, (**invited talk**).
11. 1 *st* Catalan Days on Applied Mathematics, Gerona, Spain, December 1994 (**invited talk**).
12. 4 *th* International Conference in Computational Plasticity, Barcelona, Spain, April 1995.
13. 9 *th*, International Conference on Finite Elements in Fluids - New Trends and Applications, Venezia, Italy, October 1995.
14. Dynamical Systems and Differential Equations, Springfield, Missouri, May 1996 (**invited talk**).
15. Optimization of Systems with Free Boundaries, Constanta, Romania, July 1996 (**invited talk**).
16. 3 *rd* Catalan Days on Applied Mathematics, Lleida, Spain, November 1996 (**invited talk**).
17. 8 *th* International Colloquium on Differential Equations, Plovdiv, Bulgaria, August 1997 (**invited talk**).
18. Analysis and Control of Differential Systems, Constanta, Romania, August 1998 (**invited talk**).
19. 4 *th* French-Romanian Conference on Applied Mathematics, Metz, France, August 1998.
20. 4 *th* International Congress on Industrial and Applied Mathematics, Edimburg, Great Britain, July 1999 (**invited talk**).



21. Conference on Instabilities in Frictional Problems, Chambéry, France, September 1999, **(invited talk)**.
22. 14<sup>th</sup> International Symposium on Mathematical Theory of Networks and Systems (*MTNS 2000*), Perpignan, France, July 2000 **(invited talk)**.
23. 3<sup>rd</sup> World Congress of Nonlinear Analysis, Catania, Italy, July 2000 **(invited talk)**.
24. Workshop on Free Boundary Problems, Saint-Etienne, France, September 2000 **(invited talk)**.
25. 3<sup>rd</sup> International Conference on Applied Mathematics and Engineering Sciences, Casablanca, Maroc, October 2000 (*CIMASI 2000*).
26. 3<sup>rd</sup> Contact Mechanics International Symposium, Peniche, Portugal, June 2001.
27. 8<sup>th</sup> French-Polish Conference on Mechanics, Warsaw Poland, December 2001 **(invited talk)**.
28. Septièmes Journées d'Analyse Numérique et d'Optimisation (*JANO 7*) Tanger, Maroc, April 2002, **(invited talk)**.
29. Conference on Nonlinear Problems in Mechanics, Er-Rachidia, Maroc, April 2002 **(invited talk)**.
30. 4<sup>th</sup> International Conference on Applied Mathematics and Engineering Sciences (*CIMASI 2002*) Casablanca, Maroc, October 2002 **(invited talk)**.
31. 8<sup>th</sup> French-Polish Conference on Mechanics, Warsaw, Poland, December 2002 **(invited talk)**.
32. 16<sup>ème</sup> Congrès Français de Mécanique, Nice, France, September 2003.
33. Workshop on Contact Mechanics and Thin Structures, Santiago de Compostela, Spain, February 2004 **(invited talk)**.
34. *International Conference "Friction 2002" - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems*, Warsaw, Poland, June 2004 **(invited talk)**.
35. 4<sup>th</sup> European Congress on Computational Methods in Applied Sciences and Engineering (*ECCOMAS 2004*), Jyväskylä, Finland, July 2004.
36. 4<sup>th</sup> International Conférence on Nonlinear Operators, Differential Equations and Applications (*ICNODEA 2004*), Cluj-Napoca, Romania, August 2004 **(invited talk)**.
37. 7<sup>th</sup> French-Romanian Conference on Applied Mathematics **(invited talk)**, Craiova, Romania, August 2004.
38. 2<sup>ème</sup> Conférence Internationale sur les Problèmes Non Linéaires: Modélisation et Analyse Mathématique **(invited talk)**, Er-Rachidia, Maroc, April 2005.
39. 5<sup>ème</sup> Journée de Calcul Scientifique et Modélisation Mathématique **(invited talk)**, Amiens, France, May 2005.
40. 16<sup>th</sup> International Conference on Computer Methods in Mechanics (*CMM2005*), Czestochowa, Poland, June 2005.

41. 4<sup>th</sup> Contact Mechanics International Symposium (*CMIS 2005*), Hannover, Germany, July 2005.
42. *Journées de Mathématiques Algéro-Françaises (JMAF 05)* (**invited talk**) Constantine, Algérie, November 2005.
43. International Conference “Friction 2006” - Modelling and Simulations of the Friction Phenomena in the Physical and Technical Systems, (**invited talk**), Warsaw, Poland, June 2006.
44. Workshop - Inequality and Contact Problems in Mechanics, (**invited talk**), Besançon, France, June 2006.
45. 2<sup>nd</sup> International Conference on Nonsmooth/Nonconvex Mechanics with Applications to Engineering, Thessaloniki, Greece, July 2006.
46. Numerical Methods for Nonlinear Elliptic Equations Iowa City, USA, Mai 2007 (**invited talk**).
47. International Conference - Trends and Challenges in Applied Mathematics (*ICTAM*) (**invited talk**), Bucharest, Romania, June 2007.
48. 6<sup>th</sup> Congress of Romanian Mathematicians (**invited talk**), Bucharest, Romania, June 2007.
49. International Conférence on Nonlinear Operators, Differential Equations and Applications (*ICNODEA 2007*) (**invited talk**), Cluj-Napoca, Romania, July 2007.
50. 16<sup>th</sup> French-Polish Conference on Mechanics (**invited talk**), Warsaw, Poland, Mai 2008.
51. Workshop Recent Advances in Applied Mathematics (**invited talk**), Bucharest, Romania, June 2008.
52. 8<sup>th</sup> World Congress on Computational Mechanics (*WCCM 8*) and 5<sup>th</sup> European Congress on Computational Methods in Applied Sciences and Engineering (*ECCOMAS 2008*), Venice, Italy, July 2008.
53. International Conference on Systems Theory : Modelling, Analysis and Control (**invited talk**), Fes, Marocco, May 2009.
54. International Conference on Nonlinear Partial Differential Equations (**invited talk**), Valencia, Spain, Mai 2009.
55. 18<sup>th</sup> French-Polish Conference on Mechanics (**invited talk**), Warsaw, Poland, June 2010.
56. 10<sup>th</sup> French-Romanian Conference on Applied Mathematics, Poitiers, France, August 2010.
57. Workshop on Applied Mathematics (**invited talk**), Bucharest, Romania, September 2010.
58. 2<sup>nd</sup> International Conference “Science and Technology in the Context of Sustainable Development” (**invited talk**), Ploiesti, Romania, November 2010.

59. American Mathematical Society 2011 Spring Central Section Meeting (**invited talk**), Iowa City, USA, March 2011.
60. 7<sup>th</sup> Congress of Romanian Mathematicians (**invited talk**), Brasov, Romania, June 2011.
61. 1<sup>st</sup> LEA Math-Mode Conference on Applied Mathematics (**invited talk**) Bucharest, Romania, November 2011.
62. 20<sup>th</sup> French-Polish Conference on Mechanics (**invited talk**), Warsaw, Poland, May 2012.
63. 11<sup>th</sup> French-Romanian Conference on Applied Mathematics, Bucharest, Romania, August 2012.
64. 5<sup>th</sup> Workshop Series on Mathematics, PDEs and Stochastic Processes (**invited talk**), Pitesti, Romania, October 2012.
65. International Conference on Nonlinear Partial Differential Equations (**invited talk**), Valencia (Spain), July 2013.
66. 3<sup>rd</sup> World Congress on Global Optimization (WCGO 2013) (**invited talk**), Huangshan (China), July 2013.
67. 22<sup>th</sup> French-Polish Conference on Mechanics, Warsaw, Poland, May 2014.
68. 1<sup>st</sup> International Symposium on Modern Mathematics and Mechanics (**invited talk**), Olomouc (Tcheque Republic), June 2014.
69. International Workshop on Variational and Hemivariational Inequalities: Theory, Numerics and Applications (**invited talk**), Xi-an (China), June 2014.
70. 12<sup>th</sup> French-Romanian Conference on Applied Mathematics, Lyon (France), August 2014.
71. 2<sup>nd</sup> International Symposium on Modern Mathematics and Mechanics (**invited talk**), Olomouc (Tcheque Republic), February 2014.
72. 23<sup>th</sup> French-Polish Conference on Mechanics, Besançon, France, May 2014.
73. 3<sup>rd</sup> International Conference on Applied Mathematics & Approximation Theory (**invited talk**), Ankara (Turkey), May 2015.
74. 27<sup>th</sup> IFIP TC7 Conference on System Modelling and Optimization, Sophia-Antipolis (France), June 2015.
75. International Conférence on Nonlinear Operators, Differential Equations and Applications (ICNODEA 2015) (**invited talk**), Cluj-Napoca (Romania), July 2015.
76. 3<sup>rd</sup> Polish Congress of Mechanics & 21st Computer Methods in Mechanics (**invited talk**), Gdansk (Poland), September 2015.
77. First International Conference on Applied Mathematics and Numerical Methods (ICAMNM 2016) (**invited talk**), Craiova (Romania), April 2016.
78. Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2016) (**invited talk**), Perpignan (France), May 2016.

79. 13 *th* French-Romanian Conference on Applied Mathematics (**invited talk**), Iași (Romania), August 2016.
80. 24 *th* French-Polish Conference on Mechanics, Mécanique (**invited talk**) Warsaw (Poland), October 2016.
81. Workshop on Applied Mathematics : Methods and Modelling (**invited talk**). Craiova (Romania), May 2017.
82. 25 *th* French-Polish Conference on Mechanics, (**invited talk**) Bourges (France), May 2017.
83. Workshop on Mathematical Problems with Subdifferential Boundary Conditions (**invited talk**). Saint-Etienne (France), June 2017.
84. International Workshop on Variational and Hemivariational Inequalities: Theory, Numerical Methods and Applications (**invited talk**), Xi-an (China), June 2017.
85. International conference Mathematical Analysis with Applications in Mechanics (**invited talk**), Perpignan (France), September 2017.
86. International conference on Control of State Constrained Dynamical Systems (**invited talk**), Padova (Italy), September 2017.
87. 26 *th* French-Polish Conference on Mechanics, Mécanique (**invited talk**) Warsaw (Poland), May 2018.
88. Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2018) (**invited talk**), Krakow (Poland), June 2018.
89. 3 *rd* International Symposium on Modern Mathematics and Mechanics (**invited talk**), Olomouc (Tcheque Republic), May 2019.
90. 27 *th* French-Polish Conference on Mechanics, (**invited talk**) Besançon (France), June 2019.
91. Second Perpignan Days on Applied Mathematics (PDAM 2019) Perpignan (France), June 2019.
92. Second International Conference of Applied Mathematics and Numerical Methods (ICAMNM 2020) (**invited talk**), Craiova (Romania), October 2020 - online.
93. Recent Advances on Variational and Hemivariational Inequalities, Krakow (Poland), April 2020 - online.
94. Matemática Aplicada, Computacional e Industrial (MACI 21) (**invited talk**), Rio de la Plata (Argentina), May 2021 - online.
95. Contact Problems and Relaxation Phenomen, Perpignan (France), June 2022.
96. Third International Conference of Applied Mathematics and Numerical Methods (ICAMNM 2022) (**invited talk**), Craiova (Romania), October 2022 - online.
97. Matemática Aplicada, Computacional e Industrial (MACI 23) (**pleanary invited talk**), Santa Fe (Argentina), May 2023 - online.

98. International Scientific Conference Mathematics & IT: Research and Education (MITRE 2023) (**pleenary invited talk**), Chisinau, Moldova, June 2023.
100. The thenth Congrss of Romanian Mathematicians (**invited talk**) Pitesti (Romania), July 2023.
101. 29 *th* French-Polish Conference on Mechanics, Gdansk (Poland), September 2023.
102. Journées de lancement de la Fédération Occimath (**invited talk**), Perpignan (France), April 2024.
103. Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2024) A Coruna (Spain) (**invited talk**), Mai 2024.
104. Fourth International Conference of Applied Mathematics and Numerical Methods (ICAMNM 2022) (**pleenary invited talk**), Craiova (Roumania), Octobre 2024.