

**Current Mailing Address**

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**Personal Information**

Place of birth: Timisoara, Romania  
 Citizenship: Romanian  
 Language proficiency: Romanian, English, Italian, French, Serbian.

**Academic Education and Degrees:**

- August 2006 Ph.D. University of Michigan, Ann Arbor, Mathematics.  
 Thesis Advisor: Juha Heinonen (deceased in 2007).  
 Thesis Title: *Strong  $A_\infty$ -weights and scaling invariant Besov and Sobolev-Lorentz capacities.*
- June 2001 M.S. Ohio State University, Columbus, Ohio, Mathematics.  
 Advisor: Bogdan Baishanski (deceased in 2010).
- June 1998 M.S. West University of Timisoara, Romania, Mathematics.
- June 1997 B.S. West University of Timisoara, Romania, Mathematics.

**Employment:**

- 2023 – **Associate Professor** (permanent position), POLITEHNICA Bucharest - Pitesti University Center, Romania, starting date August 1, 2023.
- 2013 – 2023 **Associate Professor** (permanent position), University of Pitesti, Romania, October 1, 2013-July 31, 2023 (on leave between March 16, 2015-December 31, 2016).
- 2016 **Research Fellow**, University of Pisa, January 1-December 31, 2016.
- 2015 **Research Fellow**, University of Trento, March 16-December 31, 2015.
- 2013 – 2014 **Researcher**, Institute of Mathematics of the Romanian Academy, Bucharest, June 1, 2013-November 30, 2014.
- 2012 – 2013 **Postdoctoral Fellow**, Institute of Mathematics of the Romanian Academy, Bucharest, August 1, 2012-January 31, 2013.
- 2010 – 2012 **Postdoctoral Researcher**, École Polytechnique Fédérale de Lausanne, September 1, 2010-July 31, 2012.
- 2008 – 2010 **McKay Postdoctoral Fellow**, McMaster University, January 1, 2008-June 30, 2010.
- 2007 **Postdoctoral Researcher**, Helsinki University of Technology, September 1-December 31, 2007.
- 2006 – 2007 **Postdoctoral Researcher**, University of Helsinki, September 1, 2006-August 31, 2007.

**Research Grants:**

- 2008 – 2010 **NSERC Grant** no. 5149, July 1, 2008-June 30, 2010 (team member)-Director Eric T. Sawyer. Amount 10000 CAD.
- 2013 – 2014 **Grant CNCS IDEI** nr. PN-II-ID-PCE-2011-3-0383, June 1, 2013-November 30, 2014 (team member)-Director Laurentiu Leustean.

**Research experience:**

- 2011 Fall Semester at the Institute of Mathematics of the Romanian Academy, Bucharest.
- 2008 Visiting scholar at the Fields Institute, Toronto, January 1-June 30.
- 2003 Fall Semester at the University of Jyväskylä.

**Professional Activities:** referee for Journal of Functional Analysis, Advances in Calculus of Variations, Indiana University Mathematics Journal, Potential Analysis, Monatshefte für Mathematik, Revista Matematica Iberoamericana, Revista Matematica Complutense and Annales Academiae Scientiarum Fennicae Mathematica

**Research Interests:** Analysis on Metric Measure Spaces, Nonlinear Potential Theory, Geometric Function Theory and Operator Function Theory

**Fellowships and Research Assistantships:**

- 2006 **Allen L. Shields Memorial Fellowship**, University of Michigan, Winter 2006.
- 2005 **Graduate Student Research Assistantship**, University of Michigan, Winter 2005.
- 2004 **Graduate Student Research Assistantship**, University of Michigan, May 1-August 31, 2004.
- 2003 **Graduate Student Research Assistantship**, University of Michigan, May 1-August 31, 2003 and Fall 2003.
- 1996 **Fellowship at the Perugia Summer School in Mathematics**, University of Perugia, Italy, July 29-August 30, 1996.

**Talks:**

- 2021 Jun Harmonic Analysis and Partial Differential Equations (MS - ID 28), Portorož, Slovenia, June 21-23, 2021 (online).
- 2019 Oct Ergodic Theory and Related Fields, Institute of Mathematics of the Romanian Academy, Bucharest, Romania, October 7-11, 2019.
- Jun The 9th Congress of Romanian Mathematicians, Galati, Romania, June 28-July 3, 2019.
- 2018 Jul 27th International Conference on Operator Theory, West University of Timisoara, Romania, July 2-6, 2018.
- May 8th Workshop for Young Researchers in Mathematics, Institute of Mathematics of the Romanian Academy, Bucharest, Romania, May 17-18, 2018.
- 2017 Jun 10th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 26-30, 2017.
- 2016 Dec Conference on the occasion of the 75th birthday of Olli Martio, University of Jyväskylä, Finland, December 15-17, 2016.
- Jun 26th International Conference on Operator Theory, West University of Timisoara, Romania, June 27-July 2, 2016.
- Jun University of Pisa, Calculus of Variations Seminar.
- Feb University of Pisa, Calculus of Variations Seminar.

- 2015 Dec University of Trento, Calculus of Variations and Geometric Measure Theory Seminar.  
 May University of Trento, Calculus of Variations and Geometric Measure Theory Seminar.
- 2012 Oct PDE and Stochastic Processes, The 5th Workshop Series on Mathematics, University of Pitesti, Romania, October 12-14, 2012.  
 Jun The XIII Romanian-Finnish seminar, Ploiesti, Romania, June 26-30, 2012.
- 2011 Oct Institute of Mathematics of the Romanian Academy, Bucharest, Romania, Potential Theory Seminar.  
 Jun The 7th Congress of Romanian Mathematicians, Brasov, Romania, June 29-July 4, 2011.  
 Jun 7th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 20-24, 2011.  
 May Séminaire d'Analyse Géométrique, École Polytechnique Fédérale de Lausanne, Switzerland.
- 2010 Dec University of Bielefeld, Bielefeld, Germany, Geometric Analysis Seminar.  
 Nov University of Ferrara, Ferrara, Italy, Analysis Seminar.  
 Aug Summer School in Analysis, Le Touquet, France, August 30-September 3, 2010.  
 Jun 23rd International Conference on Operator Theory, West University of Timisoara, Romania, June 29-July 4, 2010.  
 Jun Harmonic Analysis: A Retrospective Workshop, Fields Institute, Toronto, May 31-June 4, 2010.  
 Mar The 26th Southeastern Analysis Meeting, Georgia Tech, Atlanta, March 25-28, 2010.  
 Mar University of Alabama, Tuscaloosa, Colloquium.  
 Feb University of Waterloo, Waterloo, Canada, Analysis Seminar.
- 2009 Dec The CMS Winter Meeting, University of Windsor, Windsor, Canada December 5-7, 2009.  
 Nov The Concordia-McGill Analysis Seminar, Montreal, Canada.  
 Nov Séminaire d'Analyse, Laval University, Quebec City, Canada.
- 2008 Nov The 8th Prairie Analysis Seminar, University of Kansas, Lawrence, November 7-8, 2008.  
 Nov Kansas State University, Manhattan, Function Theory Study Seminar.  
 Aug Workshop on Function spaces, Differential Operators and Nonlinear Analysis, Helsinki, Finland, August 22-24, 2008.  
 Aug The XI Romanian-Finnish seminar, Alba Iulia, Romania, August 14-19, 2008.  
 May Quasiconformal Mappings and Analysis on Metric Spaces, a conference in memory of Juha Heinonen; University of Michigan, Ann Arbor, May 12-16, 2008.  
 May University of Cincinnati, Geometric Analysis Seminar.  
 Feb Fields Institute, Toronto, Working and Research Seminars.
- 2007 Nov University of Helsinki, Geometric Analysis Seminar.  
 Oct Helsinki University of Technology, Espoo, Finland, Study Seminar in Analysis.  
 Mar Helsinki University of Technology, Espoo, Finland, Study Seminar in Analysis.  
 Mar University of Helsinki, Seminar in Functional Analysis.
- 2006 Nov University of Oulu, Oulu, Finland, Analysis Seminar.  
 Oct Helsinki University of Technology, Espoo, Finland, Study Seminar in Analysis.  
 Sep University of Helsinki, Geometric Analysis Seminar.  
 Sep Geometric Analysis and PDE, Naples, Italy, September 1-4, 2006.  
 Jun Analysis and Partial Differential Equations, Bedlewo, Poland, June 19-23, 2006.  
 May University of Cincinnati, Geometric Analysis Seminar.  
 Apr University of Pittsburgh, Analysis Seminar.  
 Jan University of Michigan, Ann Arbor, Analysis Study Seminar.
- 2005 Aug The X Romanian-Finnish Seminar, Cluj-Napoca, Romania, August 14-19, 2005.  
 Mar Conference on Minimal Surfaces, Subelliptic PDE's and Geometric Analysis, Dartmouth College, Hanover, March 9-12, 2005.  
 Jan University of Michigan, Ann Arbor, Geometric Function Theory Seminar.

**Conferences attended:**

- 2024 Jul 29th International Conference on Operator Theory, West University of Timisoara, Romania, July 1-5, 2024.
- 2023 Jun The 10th Congress of Romanian Mathematicians, Pitesti, Romania, June 30-July 5, 2023.  
May XXXII Meeting on Calculus of Variations, Levico Terme, Italy, May 8-12, 2023 (online).
- 2022 Jun 28th International Conference on Operator Theory, West University of Timisoara, Romania, June 27-July 1, 2022.  
May XXXI Meeting on Calculus of Variations, Levico Terme, Italy, May 9-13, 2022 (online).
- 2021 Nov The 17th Prairie Analysis Seminar, Kansas State University, Manhattan, November 5-6, 2021 (online).  
Oct Conference in honor of Rajchman, Zygmund and Marcinkiewicz, October 18-23, 2021, IMPAN Warsaw, Poland (online).  
Jun 8th European Congress of Mathematicians, Portorož, Slovenia, June 20-26, 2021 (online).  
Jun Contemporary Analysis and its Applications, Portorož, Slovenia, June 16-18, 2021 (online).
- 2020 Feb XXX Meeting on Calculus of Variations, Levico Terme, Italy, February 3-7, 2020.  
Jan Calculus of Variations. An international conference to celebrate Gianni Dal Maso's 65th birthday, SISSA Trieste, Italy, January 27-February 1, 2020.
- 2019 Oct Ergodic Theory and Related Fields, Institute of Mathematics of the Romanian Academy, Bucharest, Romania, October 7-11, 2019.  
Jun The 9th Congress of Romanian Mathematicians, Galati, Romania, June 28-July 3, 2019.  
Jun 11th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 24-28, 2019.  
Jun Nonlinear Averaging and PDEs. On the occasion of the 60th Birthday of Juan J. Manfredi, Levico Terme, Italy, June 19-22, 2019.  
Feb XXIX Meeting on Calculus of Variations, Levico Terme, Italy, February 4-8, 2019.
- 2018 Jul 27th International Conference on Operator Theory, West University of Timisoara, Romania, July 2-6, 2018.  
May 8th Workshop for Young Researchers in Mathematics, Institute of Mathematics of the Romanian Academy, Bucharest, Romania, May 17-18, 2018.  
Feb XXVIII Meeting on Calculus of Variations, Levico Terme, Italy, February 12-16, 2018.
- 2017 Jun 10th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 26-30, 2017.  
Feb XXVII Meeting on Calculus of Variations, Levico Terme, Italy, February 6-10, 2017.
- 2016 Dec Conference on the occasion of the 75th birthday of Olli Martio, University of Jyväskylä, Finland, December 15-17, 2016.  
Nov Optimal Transportation and Applications, Scuola Normale Superiore Pisa, November 7-11, 2016.  
Sep A Mathematical Tribute to Ennio de Giorgi, Scuola Normale Superiore Pisa, September 19-23, 2016.  
Jun 26th International Conference on Operator Theory, West University of Timisoara, Romania, June 27-July 2, 2016.  
Jun Singular Phenomena and Singular Geometries, University of Pisa, June 20-23, 2016.  
Feb Mini-workshop Variational and PDE problems in Applied Mathematics, University of Pisa, February 10-12, 2016.  
Jan XXVI Meeting on Calculus of Variations, Levico Terme, Italy, January 18-22, 2016.
- 2015 Jul 9th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, July 6-10, 2015.  
Jun The 8th Congress of Romanian Mathematicians, Iasi, Romania, June 26-July 1, 2015.

- 2014 Jun 25th International Conference on Operator Theory, West University of Timisoara, Romania, June 30-July 5, 2014.
- Jun 8th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 15-20, 2014.
- Jan XXIV Meeting on Calculus of Variations, Levico Terme, Italy, January 27-31, 2014.
- 2012 Oct PDE and Stochastic Processes, The 5th Workshop Series on Mathematics, University of Pitesti, Romania, October 12-14, 2012.
- Jul 24th International Conference on Operator Theory, West University of Timisoara, Romania, July 2-7, 2012.
- Jun The XIII Romanian-Finnish seminar, Ploiesti, Romania, June 26-30, 2012.
- May ERC Summer School on Analysis and Geometry in Metric Measure Spaces, Scuola Normale Superiore Pisa, Italy, May 7-11, 2012.
- Feb XXII Meeting on Calculus of Variations, Levico Terme, Italy, February 6-10, 2012.
- 2011 Jun The 7th Congress of Romanian Mathematicians, Brasov, Romania, June 29-July 4, 2011.
- Jun 7th School in Analysis and Geometry on Metric Spaces, Levico Terme, Italy, June 20-24, 2011.
- 2010 Dec Parole aux jeunes chercheurs du réseau Platon, Fourier Institute, Grenoble, France, December 9-10, 2010.
- Aug Summer School in Analysis, Le Touquet, France, August 30-September 3, 2010.
- Jun 23rd International Conference on Operator Theory, West University of Timisoara, Romania, June 29-July 4, 2010.
- Jun Harmonic Analysis and Applications, University of Seville, Seville, Spain, June 14-18, 2010.
- Jun Harmonic Analysis: A Retrospective Workshop, Fields Institute, Toronto, May 31-June 4, 2010.
- May Conference on Complex Analysis, University of Illinois at Urbana-Champaign, Urbana, May 21-23, 2010.
- Mar The 26th Southeastern Analysis Meeting, Georgia Tech, Atlanta, March 25-28, 2010.
- Jan The Joint AMS-MAA Meeting, San Francisco, January 13-16, 2010.
- 2009 Dec The CMS Winter Meeting, University of Windsor, Windsor, Canada, December 5-7, 2009.
- 2008 Nov The 8th Prairie Analysis Seminar, Kansas University, Lawrence, November 7-8, 2008.
- Aug The 7th international conference on Function spaces, Differential Operators and Nonlinear Analysis, Helsinki, Finland, August 25-29, 2008.
- Aug Workshop on Function spaces, Differential Operators and Nonlinear Analysis, Helsinki, Finland, August 22-24, 2008.
- Aug The XI Romanian-Finnish seminar, Alba Iulia, Romania, August 14-19, 2008.
- May Recent Advances in Geometric Function Theory, Syracuse University, Syracuse, May 19-21, 2008.
- May Quasiconformal Mappings and Analysis on Metric Spaces, a conference in memory of Juha Heinonen; University of Michigan, Ann Arbor, May 12-16, 2008.
- Feb Workshop on Harmonic Analysis, Fields Institute, Toronto, February 19-23, 2008.
- Jan Workshop on Recent Advances in Operator Theory and Function Theory, Fields Institute, Toronto, January 7-11, 2008.
- 2007 Aug Finland-Japan Joint Seminar on Analysis, Helsinki, Finland, August 27-29, 2007.
- Aug Lars Ahlfors Centennial Celebration, Helsinki, Finland, August 20-24, 2007.
- Jun The 6th Congress of Romanian Mathematicians, Bucharest, Romania, June 28-July 4, 2007.
- Jun 2007 Workshop/Summer School-Qualitative Properties of Solutions to Elliptic and Parabolic Equations, Saariselkä, Finland, June 7-10, 2007.
- 2006 Sep Geometric Analysis and PDE, Naples, Italy, September 1-4, 2006.
- Jun Analysis and Partial Differential Equations, Bedlewo, Poland, June 19-23, 2006.

- 2005 Aug The X Romanian-Finnish Seminar, Cluj-Napoca, Romania, August 14-19, 2005.  
 May Ahlfors-Bers Colloquium, University of Michigan, Ann Arbor, May 19-22, 2005.  
 May International Conference on the Interplay of Complex Variables, Probability and Partial Differential Equations, Washington University in Saint Louis, May 11-14, 2005.  
 Mar Conference on Minimal Surfaces, Subelliptic PDE's and Geometric Analysis, Dartmouth College, Hanover, March 9-12, 2005.  
 2004 Aug Jyväskylä Summer School in Analysis, University of Jyväskylä, Jyväskylä, August 9-20, 2004.  
 2003 Jun Workshop on Analysis in Metric Spaces, Jyväskylä, June 15-18, 2003.  
 Jun XIX Rolf Nevanlinna Colloquium, Jyväskylä, Finland, June 10-14, 2003.

### Scientific events organization:

- 2023 Jun Special Session: Sobolev spaces in the metric setting, at The 10th Congress of Romanian Mathematicians, Pitesti, Romania, June 30-July 5, 2023.

### Papers and preprints:

1. *Strong  $A_\infty$ -weights and scaling invariant Besov capacities*, Rev. Mat. Iberoamericana **23** (2007), no. 3, 1067-1114. DOI: 10.4171/RMI/524.
2. *Scaling invariant Sobolev-Lorentz capacity on  $\mathbf{R}^n$* , Indiana Univ. Math. Journal **56** (2007), no. 6, 2641-2669. DOI: 10.1512/iumj/2007.56.3216.
3. *Conductor inequalities and criteria for Sobolev-Lorentz two-weight inequalities*, with Vladimir Maz'ya, Sobolev Spaces in Mathematics II. International Mathematical Series **9** (2009), p. 103-121, Springer, New York, DOI: 10.1007/978-0-387-85650-6, arXiv: 0804.3051 [math.AP].
4. *Besov capacity and Hausdorff measures in metric measure spaces*, Publ. Mat. **53** (2009), no. 1, 141-178. DOI: 10.5565/PUBLMAT-53109-07.
5. *Sobolev capacity and Hausdorff measures in metric measure spaces*, Ann. Acad. Sci. Fenn. Math. **34** (2009), no. 1, 179-194.
6. *Strong  $A$ -infinity weights and Sobolev capacities in metric measure spaces*, Houston J. Math. **35** (2009), no. 4, 1233-1249.
7. *BMO Estimates for the  $H^\infty(\mathbb{B}_n)$  Corona Problem*, with Eric T. Sawyer and Brett D. Wick, J. Funct. Anal. **258** (2010), no. 11, 3818-3840. DOI: 10.1016/j.jfa.2009.12.015.
8. *The Corona Theorem for the Drury-Arveson Hardy space and other holomorphic Besov-Sobolev spaces on the unit ball in  $\mathbb{C}^n$* , with Eric T. Sawyer and Brett D. Wick, Analysis and PDE **4** (2011), no. 4, 499-550. DOI: 10.2140/apde.2011.4.499.
9. *Newtonian Lorentz metric spaces*, with Michele Miranda Jr., Illinois J. Math. **56** (2012), no. 2, 579-616.
10. *Sobolev-Lorentz spaces in the Euclidean setting and counterexamples*, Nonlinear Analysis: Theory, Methods and Applications **152** (2017), 149-182. DOI: 10.1016/j.na.2017.01.001. arXiv: 1605.08551 [math.AP], <http://cvgmt.sns.it/paper/3079/>.
11. *Sobolev-Lorentz capacity and its regularity in the Euclidean setting*, Ann. Acad. Sci. Fenn. Math. **44** (2019), no. 1, 537-568. DOI: 10.5186/aasfm.2019.4433. arXiv: 1707.08873 [math.AP], <http://cvgmt.sns.it/paper/3532/>.

**Other papers:**

1. *Minimizers for the Sobolev-Lorentz  $p, q$ -capacity in the Euclidean setting*, in preparation.

**Books:**

1. *Scaling Besov and Sobolev-Lorentz capacities in the Euclidean setting*, Publishing House of the Romanian Academy, Bucharest, 2012, xii+114 pages.

**Teaching experience:**

- 2023 – **Instructor**, POLITEHNICA Bucharest - Pitesti University Center. Instructor for Complex Analysis and Special Chapters of Mathematical Didactics in the Fall 2023 semester; instructor for Mathematical Analysis II, Mathematical Topics for the Optional Curriculum and Techniques and Methods for Scholar Evaluation in the Spring 2024 semester; instructor for Complex Analysis, Complements of Arithmetics and Algebra, Complements of Probability Theory and Methodics of Teaching Real Analysis in the Fall 2024 semester; instructor for Mathematical Analysis II and Didactics of Arithmetics and Algebra in the Spring 2025 semester.
- 2013 – 2023 **Instructor**, University of Pitesti. Instructor for Mathematical Analysis III, Complex Analysis and Statistical Data Interpretation in Biology and Medicine in the Fall 2013 semester; instructor for Mathematical Methods in Signal Processing and Techniques and Methods for Scholar Evaluation in the Spring 2014 semester; instructor for Mathematical Analysis, Mathematical Analysis III, Complex Analysis and Statistical Data Interpretation in Biology and Medicine in the Fall 2014 semester; instructor for Analytic and Computational Geometry in the Spring 2017 semester; instructor for Complex Analysis, History of Mathematics and Special Chapters of Mathematical Didactics in the Fall 2017 semester; instructor for Ecological Statistics and Mathematical Topics for the Optional Curriculum in the Spring 2018 semester; instructor for Complex Analysis, Mathematics with Applications in Biology, Modern Teaching-Assessment Techniques in the Fall 2018 semester; instructor for Mathematical Analysis II and Didactics of Arithmetics and Algebra in the Spring 2019 semester; instructor for Complex Analysis, Modern Teaching-Assessment Techniques and Special Chapters of Mathematical Didactics in the Fall 2019 semester; instructor for Mathematical Analysis II and Mathematical Topics for the Optional Curriculum in the Spring 2020 semester; instructor for Complex Analysis, Methodics of Teaching Real Analysis, Methodics of Teaching Mathematical Analysis in the Fall 2020 semester; instructor for Mathematical Analysis II and Didactics of Arithmetics and Algebra in the Spring 2021 semester; instructor for Complex Analysis and Special Chapters of Mathematical Didactics in the Fall 2021 semester; instructor for Mathematical Analysis II and Mathematical Topics for the Optional Curriculum in the Spring 2022 semester; instructor for Complex Analysis, Complements of Arithmetics and Algebra, Complements of Probability Theory and Methodics of Teaching Real Analysis in the Fall 2022 semester; instructor for Mathematical Analysis II and Didactics of Arithmetics and Algebra in the Spring 2023 semester.
- 2010 – 2012 **Assistant**, École Polytechnique Fédérale de Lausanne (3 semesters). Instructor, coordinator, and supervisor over a group of tutors for Analysis I in the Autumn 2010 and for Analysis II in the Spring 2011 semester; principal assistant and coordinator over a group of assistants for Geometry in the Spring 2012 semester.

- 2009 – 2010 **Instructor**, McMaster University (4 semesters). Instructor for Math 3FF3 (Partial Differential Equations I) in the Winter 2009 semester, for Math 2A03 (Calculus III) in the Spring/Summer 2009 and Fall 2009 semester, and for Math 742 (Applied Mathematics II) in the Winter 2010 semester.
- 2001 – 2005 **Graduate Student Instructor**, University of Michigan, Fall 2001 - Winter 2003, Winter 2004, Fall 2004, Spring 2005 and Fall 2005 (8 semesters). Primary instructor for one section of a multi-section course: Math 105 (Pre-Calculus), Math 115 (Calculus I) and Math 116 (Calculus II).
- 1999 – 2001 **Graduate Teaching Associate**, Ohio State University, Fall 1999 - Spring 2001 (7 quarters). Held recitation sections for Math 151 (Calculus I) and Math 152 (Calculus II) for each quarter except the Summer 2000 quarter. Taught an individual section of Math 152 (Calculus II) in the Summer 2000 quarter.
- 1999 – 2001 **Training**. Attended training courses for teaching associates at the Ohio State University (one quarter) and at the University of Michigan (one week).
- 1998 – 1999 **Teaching Assistant**, West University of Timisoara, Winter 1998 - Winter 1999 (3 semesters). Held recitation sessions for Numerical Analysis.