CURRICULUM VITAE

Assoc. Prof. Aviv Gibali פרופ"ח אביב גיבלי

Department of Mathematics
ORT Braude College
P.O. Box 78, Karmiel, 21982, Israel
Telephone: +972-4-9086404
Email: avivg@braude.ac.il

EDUCATION

Ph. D. 2012 Department of Mathematics, The Technion - Israel Institute of Technology, Haifa, Israel.

Dissertation: *Algorithms for Solving Variational Inequalities and Applications*.

M.Sc. 2008 Summa Cum Laude in Mathematics, Department of Mathematics, University of Haifa, Haifa, Israel.

B.Sc. 2005 Magna Cum Laude in Mathematics, Department of Mathematics, University of Haifa, Haifa, Israel.

RESEARCH INTERESTS

- Optimization Theory (mathematical theory and development of algorithms).
- Linear Algebra and Convex Analysis (systems of linear and nonlinear equations or inequalities).
- Optimization Theory Techniques in Radiation Therapy Treatment Planning and Image Processing.

ACADEMIC APPOINTMENTS

10/2020 - Present: Head of the Mathematics Department, ORT Braude College of Engineering, Karmiel, Israel.

10/2018 - Present: Associate Professor at the Mathematics Department, ORT Braude College of Engineering, Karmiel, Israel.

2017 - Present: Scientific adviser, Fraunhofer Institute for Industrial Mathematics (ITWM), Kaiserslautern, Germany.

2014 – 10/2018: Senior lecturer at the Mathematics Department, ORT Braude College of Engineering, Karmiel, Israel.

2013 - Present: Research associate at the Center for Computational Mathematics and Scientific Computation (CCMSC), University of Haifa, Haifa, Israel.

2012 - 2014: Researcher at the Optimization Department, Fraunhofer Institute for Industrial Mathematics (ITWM), Kaiserslautern, Germany.

Minerva Postdoc Fellowship at the Department of Mathematics at Kaiserslautern University of Technology, Kaiserslautern, Germany.

TEACHING EXPERIANCE

ORT Braude College of Engineering: MATLAB, C, C++, Java, Calculus and Analysis in one variable, Calculus and Analysis in several variables, Linear Algebra I, Linear Algebra II, Approximation Theory, Numerical Analysis, Deterministic Models of Operations Research.

The Technion–Israel Institute of Technology: Calculus and Analysis in one variable, Calculus and Analysis in several variables.

University of Haifa: Calculus and Analysis in one variable, Calculus and Analysis in several variables, Linear Algebra I, Linear Algebra II, Discrete Mathematics, Probability and Statistics, Infinite Set Theory, Introduction to Algorithms.

Ironi Gimel High school, Haifa: All levels of Mathematics and Physics.

ACADEMIC AND PROFESSIONAL AWARDS AND GRANTS

2020: First Prize: Hackathon – Free writing home exams, Entrepreneurship Center Tel-Aviv University and Shenkar.

2018: Mathematics for Industry Network - Short Term Scientific Mission (STSM) to Germany, Heidelberg and Kaiserslautern.

2017: The Austria-Israel Academic Network Innsbruck (AIANI) Fellowship.

Seventh Framework Programme - The People Programme, short scientific visit to Keiv and Lviv, Ukraine.

2016: Seventh Framework Programme - The People Programme, short scientific visit to Lviv, Ukraine.
2015: TEMPUS IRIS short travelling grant.
2012 - 2014: The Minerva Fellowship Program, (2 times).
2012: Faculty of Mathematics excellence award, The Technion.
Vivian Konigsberg award for excellence in teaching, The Technion.
2011: The Israel Mathematical Union (IMU) travel award.
The Polish Mathematic Society (PTM) travel award.
2010: Vivian Konigsberg award for excellence in teaching, The Technion.
2008 - 2012: Ph.D. scholarship, The Technion.
2008: Dean of Graduate Studies excellence award, University of Haifa.

2005 – 2007: Dean's Honors list of M.Sc. students, University of Haifa (2 times).
2003 – 2005: Dean's Honors list of B.Sc. students, University of Haifa (2 times).

PROFESSIONAL ACTIVITIES

Organizing Conferences and Workshops

2020: Organizer and speaker at the The Felix Klein Autumn Workshop, jointly with The High Performance Center Simulation and Software Based Innovation, Fraunhofer ITWM, 16/9/20-18/9/20.

Initiator and organizer jointly with The Fraunhofer Institute for Industrial Mathematics ITWM: Expert Sessions "Projection Methods". A weekly online seminar series 23/6/20 - 26/8/20.

2019: Organizing committee: The 149 European study group with industry, March 4-8, Innsbruck, Austria.

2018: Initiator and organizing committee: Industrial Day with Tnuva Ltd., December 13, 2018, ORT Braude, Karmiel, Israel.

Initiator and chief organizer: Mathematics high-school teacher's seminar, October 16, 2018, ORT Braude, Karmiel, Israel.

2017: Organizing committee: The Twentieth Israeli bi-annual Mini-Workshop in Applied and Computational Mathematics, December 28, 2017, ORT Braude, Karmiel, Israel.

Initiator and chief organizer: Mathematics high-school teacher's seminar, November 21, 2017, ORT Braude, Karmiel, Israel.

Initiator and chief organizer: Industrial Day, October 15, 2017, ORT Braude, Karmiel, Israel.

Organizing committee: Contemporary Problems in Mathematics and Physics, Tashkent, Uzbekistan, October 6-10, 2017.
Initiator and chief organizer: The First Israeli Modelling Week, July 2-6, 2017, Nahariya-Karmiel, Israel.

Initiator and chief organizer: Industrial Day, June 29, 2017, Holon Institute of Technology, Israel.

Organizing committee: The First IMU-INdAM Conference in Analysis, May 29-June 1, Tel-Aviv, Israel.

Organizing committee: The First IMU-INdAM Conference in Analysis, May 29-June 1, Tel-Aviv, Israel.

Organizing committee: The workshop on Operator Theory and Applications, September 26-27, Nahariya, Israel.

2016: Organizing committee: The workshop on Operator Theory and Applications, September 26-27, Nahariya, Israel.

2015: Organizing committee: Complex Analysis & Dynamical Systems VII, May 10-15, Nahariya, Israel. ORT Braude College, Bar-Ilan University and the University of South Florida .

2013: Initiator and organizer: Workshop on Projection Methods - Theory & Practice, June, 2013, Kaiserslautern, Germany.
A Joint project of the Fraunhofer Institute for Industrial Mathematics (ITWM) and the Felix Klein Center for Mathematics.

Helped organizing together with Professor Yair Censor from the University of Haifa, A one-day marathon on "Projection Methods in Feasibility, Superiorization and Optimization", December, 2013, Haifa, Israel.
A Joint workshop of The Center for Mathematics and Scientific Computation (CMSC), the Caesarea Rothschild Institute (CRI) for Interdisciplinary Applications of Computer Science and the University of Haifa.

Scientific Stays

2020: Invited to The Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany, January 2020.

2019: Invited to Loma Linda University, Loma Linda, CA, USA, July 2019.

2018: Invited to the University of Alicante, Spain, December 2018.

Invited to the Civil Aviation University of China, Tianjin, China, September 2018.

Invited to Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany and the Heidelberg Collaboratory for Image Processing (HCI), University of Heidelberg, Heidelberg, Germany, August 2018.

Invited to the University of Innsbruck, Innsbruck, Austria, July 2018.

Invited to the University of Würzburg, Würzburg, Germany, March, 2018.

2017: Invited to the Department of Applied Mathematics, The University of Innsbruck, Austria, December 2017.

Invited to Institute for Condensed Matter Physics of the National Academy of Sciences of Ukraine, Lviv, Ukraine, July 2017.

2016: Invited to the Department of Electrical Engineering, Computer Engineering and, Informatics, Cyprus University of Technology, Limassol, Cyprus. December 2016.

Invited to Institute for Condensed Matter Physics of the National Academy of Sciences of Ukraine, Lviv, Ukraine, July 2016.

Invited to Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany, January 2016.

Invited to Heidelberg Collaboratory for Image Processing (HCI), University of Heidelberg, Heidelberg, Germany, January 2016.

2015: Invited to the Berlin Mathematical School (BMS), Berlin, Germany, December 2015.

Invited to Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany, July 2015.

Invited to Heidelberg Collaboratory for Image Processing (HCI), University of Heidelberg, Heidelberg, Germany, July 2015.

2014: Invited to Institute for Numerical and Applied Mathematics University of Göttingen, Germany, September 2014.

Invited to the Mathematics Department at Jacobs University, Breman, Germany, September 2014.

Invited to Institute for Numerical Simulation, Bonn, Germany, May 2014.

Invited to Rochester Institute for Technology, Rochester, NY, USA, May.

2011: Invited to the Fraunhofer Institute for Industrial Mathematics, November 2011.

Invited to the University of Zielona Góra, Zielona Góra, Poland, September 2011.

2010: Invited to the Peking University, Beijing, P.R. China, September-October 2010.

2006: Invited to the University of Cordoba, Cordoba, Spain, July 2006.

Associate Editor

2020 – Present: Fixed Point Theory and Algorithms for Sciences and Engineering
2020 – Present: Applied Numerical Mathematics
2019 – Present: Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas
2019 – Present: Journal of Applied and Numerical Optimization
2017 – Present: Numerical Algorithms
2015 - Present: Journal of Industrial and Management Optimization

PhD Students
2018 - 2020: Esther Bonacker (Jointly with Prof. Karl-Heinz Küfer), Technical University of Kaiserslautern and Fraunhofer Institute for Industrial Mathematics, Kaiserslautern, Germany.

PhD Thesis Examiner
2020: Dr. Kazeem Olalekan Aremu, University of KwaZulu-Natal, South Africa.
2019: Dr. Jolaoso Lateef Olakunle, University of KwaZulu-Natal, South Africa.
2018: Dr. Ruben Campoy Garcia, University of Murcia, Spain.

Guidance of Students Final Project for Bachelor Degree
2020 - Present: Ayala Elkoby
2018 - 2019: Shira Bar-Dov
2017 - 2018: Mohamed Dallasheh, Dima Teller, Yakir Peretz

Refereeing for Scientific Journals
Abstract and Applied Analysis, Fixed Point Theory and Applications, Applied Mathematics and Mechanics, Inverse Problems, Journal of Inequalities and Applications, Computational Optimization and Applications, Inverse Problems in Science & Engineering, Nonlinear Analysis: Theory, Methods & Applications, Bulletin of Mathematical Analysis and Applications, Journal of Global Optimization, Mathematical Modelling and Analysis, Numerical Algorithms, Optimization letters.

Membership in Professional Societies
- COST Management Committee member – COST Action CA19130 -Fintech and Artificial Intelligence in Finance – Towards a transparent financial industry
- Council of The European Consortium for Mathematics in Industry (ECMI)
- Fraunhofer Society
- COST Management Committee member - COST Action TD1409-Mathematics for Industry Network (MI-NET)
- Israel Mathematical Union (IMU)
- Polish Mathematic Society (PTM)
- Operations Research Society – Israel (ORSIS)
- American Mathematics Society (AMS).

Plenary and Invited Talks (Colloquiums, Conferences and Workshops)
2020: The Felix Klein Autumn Workshop, Fraunhofer ITWM, 16/9/20 (online).

2019: British Applied Mathematics Colloquium, April 24-26, 2019, Bath, UK.

2018: Deep Learning in Imaging Sciences Workshop, July 19-20, 2018, Innsbruck, Austria.

The IMU 2018 annual meeting, May 25, 2018, The Technion, Israel.

Math for Digital Factory, March 20-23, 2018, Limerick, Ireland.

2017: Department of Applied Mathematics, The University of Innsbruck, Austria, Guest lecture, December 2017,

A German-Israeli Research Workshop on Optimization, The Technion, October 16-19, 2017.

The First IMU-INdAM Conference in Analysis, May 29-June 1, Tel-Aviv, Israel.

The IMU Annual Meeting, May 25-28, Akko, Israel.

SIAM Conference on Computational Science and Engineering (CSE17), Atlanta, Georgia, USA.

2016: The 125 European Study Group with Industry (ESGI), Limassol, Cyprus.

Continuous Optimization: Challenges and Applications, September 5-8, 2016, The Technion, Israel. (attended)

The 118 European Study Group with Industry (ESGI), July 4-8, Dublin, Ireland.

Geometric Analysis in Control and Vision Theory, May 9-14, Bergen/Voss, Norway.

2015: The 17th Mini-Workshop in Applied and Computational Mathematics December 28, The Weizmann Institute, Israel.

The Eleventh Interdisciplinary Research Conference, October 7-8, ORT Braude College of Engineering, Ha-Goshrim, Israel.

Colloquium talk, Heidelberg Collaboratory for Image Processing (HCI), University of Heidelberg, Heidelberg, Germany. July 14, 2015.

2014: The Tenth Interdisciplinary Research Conference, October 19-20, Ort Braude College of Engineering, Nahariya, Israel.

Computational Analysis Seminar, September 16, Jacobs university, Breman, Germany.

Colloquium talk, Institute for Numerical and Applied Mathematics,

September 11, University of Göttingen, Germany.

The Department of Mathematics seminar, April 8, ORT Braude College of Engineering, Karmiel, Israel.

Colloquium talk, Mathematics of Computation seminar, Institute for Numerical Simulation, May 26, Bonn, Germany.

Colloquium talk, Rochester Institute for Technology, May 15, Rochester, NY, USA.

Workshop on Nonlinear Analysis and Optimization, June 16, Technion, Israel.

The Workshop on Operator Theory, February 25, Ort Braude College of Engineering, Karmiel, Israel. (Attended).

2013: A one-day marathon on "Projection Methods in Feasibility, Superiorization and Optimization", December 13, Haifa, Israel.

Workshop on Projection Methods - Theory & Practice, June 19-20, Kaiserslautern, Germany.

2012: Infinite Products of Operators and Their Applications, May 21-24, The Technion, Haifa, Israel.

2012 - 2014: Fraunhofer's Seminar, Kaiserslautern, Germany (4 times).

2007 - 2014: Nonlinear Analysis and Optimization Seminar, The Technion, Haifa, Israel (7 times).

2011: Israeli-Polish Mathematical Meeting, September 11-15, Łódź, Poland.

Operations Research Society of Israel (ORSIS) Annual Conference, May 29-30, Akko, Israel.

SIAM Conference on Optimization, May 16-19, Darmstadt, Germany.

2010: The Operations Research Society of China (ORSC) Annual Meeting, October 15-17, Beijing, P.R. China.

Nonlinear Analysis and Optimization Seminar, September 20, Peking University, Beijing, P.R. China.

Workshop on Optimization Theory and Related Topics, January 11-14, The Technion and the University of Haifa, Haifa, Israel.

2009: Complex Analysis and Dynamical Systems IV, May 18-22, The Bar-Ilan University, the Ort Braude College of Engineering and the

University of Miami, Nahariya, Israel. (Attended)

LIST OF PUBLICATIONS

Ph.D. Thesis (2012): Algorithms for Solving Variational Inequalities and Applications.

Refereed Papers:

1. S. Singh, A. Gibali and X. Qin, Cooperation in traffic network problems via evolutionary split variational inequalities, accepted for publication in *Journal of Industrial and Management Optimization*, 2020.
2. Y. I. Suleiman, P. Kumam, H. ur Rehan and A. Gibali, A self-adaptive extragradient CQ-method for a class of bilevel split equilibrium problem with application to Nash Cournot oligopolistic electricity market models, accepted for publication in *Computational and Applied Mathematics*, 2020.
3. A. Gibali and Y. Shehu, Reflected Forward-Backward-Forward algorithm for monotone inclusion, accepted to *Symmetry*, 2020.
4. A. Taiwo, A. O. -E. Owolabi, L. O. Jolaoso, O.T. Mewomo and A. Gibali, A new approximation scheme for solving various split inverse problems, accepted to *Afrika Matematika*, 2020.
5. A. Taiwo, L. O. Jolaoso, O.T. Mewomo and A. Gibali, On generalized mixed equilibrium problem with α-β-η bifunction and μ-τ monotone mapping, accepted to *Journal of Nonlinear and Convex Analysis*, 2020.
6. A. Gibali, D. V. Thong and N. T. Vinh, Three new iterative methods for solving inclusion problems and related problems, accepted for publication in Computational and Applied Mathematics, 2020.Y. Shehu and A. Gibali, New inertial relaxed method for solving split feasibilities, accepted for publication in *Optimization Letters*, 2020.
7. Y. Shehu and A. Gibali, Inertial Krasnoselskii-Mann method in Banach spaces, accepted for publication in *Mathematics*, 2020.
8. Y. Tang and A. Gibali, Several inertial methods for solving split convex feasibilities and related problems, accepted for publication in *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, 2020.
9. A. Gibali, M. Haltmeier, Superiorized regularization of inverse problems, accepted for publication in *Journal of Applied and Numerical Optimization*, 2020.
10. A. Cegielski, A. Gibali, S. Reich and R. Zalas, Outer approximation methods for solving variational inequalities defined over the solution set of a split convex feasibility problem, accepted for publication in *Numerical Functional Analysis and Optimization*, 2020.
11. A. Gibali and D. V. Thong, A new low-cost double projection method for solving variational inequalities, accepted for publication in *Optimization and Engineering*, 2020.

12. E. Bonacker, A. Gibali, K.-H. Küfer, Nesterov perturbations and projection methods applied to IMRT, *Journal of Nonlinear and Variational Analysis* **4** (2020), 63–86.
13. A. Gibali, N. H. Ha, N. T. Thuong, T. H. Trang and N. T. Vinh, Polyak's gradient method for the split feasibility problem and its application, accepted for publication in *Journal of Applied and Numerical Optimization*, 2019.
14. D. V. Hieu and A. Gibali, A new inertial double-projection method for solving variational inequalities, *Journal of Fixed-Point Theory and Applications*, (2019) 21:97.
15. D. V. Hieu and A. Gibali, Strong convergence of inertial algorithms for solving equilibrium problems, *Optimization Letters*, (2019) 1–27.
16. A. Gibali, D. T. Mai and N. T. Vinh, A new relaxed CQ algorithm for solving Split Feasibility Problems in Hilbert spaces and its applications, *Journal of Industrial and Management Optimization* **15**(2) (2019), 963–984.
17. X.-H. Li, Q.-L. Dong and A. Gibali, New iterative algorithms for approximating fixed points of nonexpansive mappings, accepted for publication in *Journal of Applied and Numerical Optimization*, 2019.
18. A. Gibali, S. Sagratella and Y. Shehu, Inertial projection-type methods for solving quasi-variational inequalities in real Hilbert spaces, accepted for publication in *Journal of Optimization Theory and Applications*, 2019.
19. N. T. Vinh and A. Gibali, Gradient projection-type algorithms for solving equilibrium problems and its applications, *Computational and Applied Mathematics* (2019) 38:119.
20. A. Gibali D. V. Thong and P. A. Tuan, Two simple projection-type methods for solving variational inequalities, *Analysis and Mathematical Physics* **9**(4) (2019), 2203-2225.
21. E. Bonacker, A. Gibali and K.-H. Küfer, Accelerating two projection methods via perturbations with application to Intensity-Modulated Radiation Therapy, accepted for publication in *Applied Mathematics and Optimization* (2019) 1–34.
22. A. Gibali and Y. Tang, New self-adaptive step size algorithms for solving split variational inclusion problems and its applications, accepted for publication in *Numerical Algorithms* (2019), 1–27.
23. A. Gibali and D.-V. Thong, Extragradient methods for solving non-Lipschitzian pseudo-monotone variational inequalities, *Journal of Fixed Point Theory and Applications* (2019) 21:20.
24. F. J. Aragón Artacho, Y. Censor and A. Gibali, The Cyclic Douglas-Rachford algorithm with r-sets-Douglas-Rachford Operators, *Optimization Methods and Software* **34** (2019), 875–889.
25. E. N. Antoniou, A. Araújo, M. D. Bustamante and A. Gibali, Physically feasible decomposition of Engino® toy models: a graph theoretic approach, *European Journal of Applied Mathematics* **30** (2019), 278–297.

26. A. Gibali and D.-V. Thong, Two strong convergence subgradient extragradient methods for solving variational inequalities in Hilbert spaces, *Japan Journal of Industrial and Applied Mathematics* **36**(1) (2019),299-321.
27. S. He, L. Liu and A. Gibali, Self-adaptive iterative method for solving boundedly Lipschitz continuous and strongly monotone variational inequalities, accepted for publication in *Journal of Inequalities and Applications* **2018**, 350 (2018).
28. A. Gibali and D. V. Thong, Tseng type methods for solving inclusion problems and its applications, *Calcolo* **55**, 2018.
29. A. Gibali and D. Teller, A real-time iterative projection scheme for solving the Common Fixed Point problem and its applications, *Contemporary Mathematics. Fundamental Directions* **64**(4) (2018), 616–636.
30. S. He, T. Wu, A. Gibali and Q.-L. Dong, Totally relaxed, self-adaptive algorithm for solving variational inequalities over the intersection of sub-level sets, *Optimization* **67** (2018), 1487–1504.
31. A. Gibali, K.-H. Küfer, D. Reem and P. Süss, A generalized projection-based scheme for solving convex constrained optimization problems, *Computational Optimization and Applications* **70**(3) (2018), 737-762.
32. A. Gibali, A new Bregman projection method for solving variational inequalities in Hilbert spaces, *Pure and Applied Functional Analysis*, **3**(3) (2018), 403–415.
33. G. Cai, A. Gibali, O. S. Iyiola and Y. Shehu, A new double-projection method for solving variational inequalities in Banach space, Accepted for publication in *Journal of Optimization Theory and Applications*, **178**(1) (2018), 219-239.
34. Q.-L. Dong, D. Jiang and A. Gibali, A modified subgradient extragradient method for solving the variational inequality, *Numerical Algorithm*, **79**(3) (2018), 927-940.
35. A. Gibali and O. Kelis, Gradient methods for solving zero-sum linear-quadratic differential games, *Applied Analysis and Optimization* **2**(2) (2018), 237–252.
36. Q.-L. Dong, A. Gibali, D. Jiang and S.-H. Ke, Convergence of projection and contraction algorithms with outer perturbations and their applications to sparse signals recovery, *Journal of Fixed Point Theory and Applications*, 2018, 20:16.
37. A. Moudafi and A. Gibali, l1-l2 Regularization of split feasibility problems, *Numerical Algorithms* **78** (2018), 739-757.
38. A. Gibali, Two simple relaxed perturbed extragradient methods for solving variational inequalities in Euclidean spaces, *Journal on Nonlinear and Variational Analysis* **2** (2018), 49–61.
39. A. Gibali, L.-W. Liu and Y.-C. Tang, Note on the modified relaxation CQ algorithm for the split feasibility problem, *Optimization Letters* **12**(4) (2018), 817-830.
40. A. Gibali and S. Petra, DC-Programming versus l0-Superiorization for Discrete Tomography, Analele Stiinctifice ale Universitatii Ovidius Constanta, Seria Mathematica, **26**(2) (2018), 105-133.

41. Q.-L. Dong, A. Gibali, D. Jiang and Y. Tang, Bounded perturbation resilience of extragradient-type methods and their applications, *Journal of Inequalities and Applications* 2017, 2017:280.
42. A. Gibali and T. Humphries, Superiorized polyenergetic reconstruction algorithm for reduction of metal artifacts in CT images, *2017 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)*, Atlanta, Georgia, USA, pp 1–6.
43. A. Gibali, S. Reich and R. Zalas, Outer approximation methods for solving variational inequalities in Hilbert space, *Optimization* **66** (2017), 417-437.
44. A. Gibali and A. Moudafi, From implicit convex feasibility to convex minimization, *Transactions on Mathematical Programming and Applications*, **5** (2017), 25–45.
45. A. Gibali, A new Split Inverse Problem and an application to least intensity feasible solutions, *Pure and Applied Functional Analysis* **2** (2017), 243-258.
46. E. Bonacker, A. Gibali, K.-H. Küfer, P. Süss, Speedup of lexicographic optimization by superiorization and its applications to cancer radiotherapy treatment, *Inverse Problems* **33** (2017), 044012.
47. D.-D. Erdmann-Pham, A. Gibali, K.-H. Küfer and P. Süss, Singular Value Homogenization: A simple preconditioning technique for linearly constrained optimization and its potential applications in medical therapy, *Journal of Mathematics in Industry* **6:1** (2016).
48. Y. Censor, A. Gibali, F. Lenzen and C. Schnörr, The implicit convex feasibility problem and its applications to adaptive image denoising, *Journal of Computational Mathematics*, **34** (2016), 610–625.
49. A. Gibali, D. Shoikhet and N. Tarkhanov, On the convergence rate of continuous Newton method, *Contemporary Mathematics, Fundamental Directions*, **62** (2016), 1–13.
50. A. Gibali, A new non-Lipschitzian projection method for solving variational inequalities in Euclidean spaces*, Journal of Nonlinear Analysis and Optimization: Theory and Applications* **6** (2015), 41–51.
51. A. Gibali, S. Reich and R. Zalas, Iterative methods for solving variational inequalities in Euclidean space, *Journal of Fixed Point Theory and Applications* **17** (2015), 775-811.
52. A. Gibali, K.-H. Küfer, P. Süss, Reformulating the Pascoletti-Serafini problem as a bi-level optimization problem, Infinite products of operators and their applications, *Contemporary Mathematics* **636** (2015), 121–129. American Mathematical Society.
53. A. Gibali, K.-H. Küfer, P. Süss, Successive linear programing approach for solving the nonlinear split feasibility problem, *Journal of Nonlinear and Convex Analysis* **15** (2014), 345–353.
54. A. Cegielski, A. Gibali, S. Reich and R. Zalas, An algorithm for solving the variational inequality problem over the fixed point set of a quasi-nonexpansive

operator in Euclidean space, *Numerical Functional Analysis and Optimization* **34** (2013), 1067–1096.

55. A. Gibali, B. Jadamba, A. A. Khan and J. Oleksyn, Gradient and extragradient methods for an elliptic inverse problem of parameter identification: a numerical study, *Indian Journal of Industrial and Applied Mathematics* **4** (2013), 33–51.
56. A. Gibali, An algorithm for solving the set-valued variational inequality problem in Euclidean space, *Pacific Journal of Optimization* **9** (2013), 61–75.
57. Y. Censor, A. Gibali and S. Reich, Extensions of Korpelevich's extragradient method for solving the variational inequality problem in Euclidean space, *Optimization* **61** (2012), 1119–1132.
58. C. Byrne, Y. Censor, A. Gibali and S. Reich, The split common null point problem, Journal of Nonlinear and Convex Analysis **13** (2012), 759–775.
59. Y. Censor, A. Gibali and S. Reich, Algorithms for the split variational inequality problem, *Numerical Algorithms* **59** (2012), 301–323.
60. Y. Censor, A. Gibali, S. Reich and S. Sabach, Common solutions to variational inequalities, Set-Valued and Variational Analysis **20** (2012), 229–247.
61. Y. Censor, A. Gibali and S. Reich, A von Neumann alternating method for finding common solutions to variational inequalities, *Nonlinear Analysis* **75** (2012), 4596–4603.
62. Y. Censor, A. Gibali and S. Reich, Strong convergence of subgradient extragradient methods for the variational inequality problem in Hilbert space, *Optimization method and Software* **26** (2011), 827–845.
63. Y. Censor, A. Gibali and S. Reich, The subgradient extragradient method for solving variational inequalities in Hilbert space, *Journal of Optimization Theory and Applications* **148** (2011), 318–335.
64. Y. Censor and A. Gibali, Projections onto super-half-spaces for monotone variational inequality problems in finite-dimensional spaces, *Journal of Nonlinear and Convex Analysis* **9** (2008), 461–475.

Refereed proceedings and book chapters:

1. A. Gibali, B. Jadamba, A. A. Khan, F. Raciti and B. Winkler, Gradient and extragradient methods for the elasticity imaging inverse problem using an equation error Formulation: A comparative numerical study, *Nonlinear analysis and optimization, Contemporary Mathematics* **659** (2016), 65–89. American Mathematical Society.
2. R. Dıaz Millán and A. Gibali, Characterization of orthogonal polynomials - A new proof to Bochner Theorem, *Complex Analysis and Dynamical Systems VII, Contemporary Mathematics*, accepted for publication 2016.

Preprints:

1. A. Gibali, D. Shoikhet and N. Tarkhanov, On the convergence of continuous Newton method, Preprints des Instituts f ¨ur Mathematik der Universit ¨ at Potsdam **4** (2015) 10.

Books and Monographs:

1. K.L. Teo, Y. Wu and A. Gibali, Guest Editors, *Symmetry in Optimization and Control with Real World Applications*, Special Issue of the journal Symmetry, to appear in 2020.
2. A. Gibali, G.T. Herman and C. Schnörr, Guest Editors, *Superiorization versus Constrained Optimization: Analysis and Applications*, Special Issue of Journal of Applied and Numerical Optimization (JANO), 2020.
3. A. Gibali, *A new Algorithmic Scheme for Solving Variational Inequalities*, LAP Lambert Academic Publishing 2013. This is the author edited MS.c Thesis.
4. A. Gibali and S. Sabach, *Lecture and tutorial notes in Calculus 1* (in Hebrew), University of Haifa Student Body 2007.

Abstracts:

1. M. Brooke, Y. Censor, A. Gibali, S. Penfold, R. Schulte, F. V. den Heuvel, *A flexible projection-based non-convex inverse optimization algorithm for intensity modulated proton therapy*, 2020 Joint American Association of Physicists in Medicine and the Canadian Organization of Medical Physicists (AAPM/COMP) Meeting, Vancouver, British Columbia, July 12-16.
2. A. Gibali and O. Kelis, *Gradient methods For solving zero-sum linear-quadratic differential games*, 2nd European Conference on Design, Modeling and Optimization (ECDMO 2018), February 10-12, 2018, Krakow, Poland.
3. A. Gibali, A. A. Khan and B. C. Winkler, *Gradient and Extragradient methods for the inverse problem of tumor identification*, Joint Mathematics Meetings, January 4-7, 2017, Atlanta, Georgia, USA.