## Bibliography

- Felix E Browder. Continuity properties of monotone nonlinear operators in Banach spaces. Bulletin of the American Mathematical Society, 70(4):551–553, 1964.
- Felix E Browder. Nonlinear maximal monotone operators in Banach space. Mathematische Annalen, 175(2):89–113, 1968.
- [3] Felix E Browder. Multi-valued monotone nonlinear mappings and duality mappings in Banach spaces. Transactions of the American Mathematical Society, 118:338–351, 1965.
- [4] George J Minty et al. Monotone (nonlinear) operators in Hilbert space. Duke Mathematical Journal, 29(3):341–346, 1962.
- [5] George J Minty. On the maximal domain of a "monotone" function. Michigan Mathematical Journal, 8(2):135–137, 1961.
- [6] George J Minty et al. On the monotonicity of the gradient of a convex function.
  Pacific Journal of Mathematics, 14(1):243-247, 1964.
- [7] RI Kachurovskii. Monotonic nonlinear operators in Banach spaces. In *Doklady Akademii Nauk*, volume 163, pages 559–562. Russian Academy of Sciences, 1965.

- [8] R Tyrrell Rockafellar et al. Local boundedness of nonlinear, monotone operators. The Michigan Mathematical Journal, 16(4):397–407, 1969.
- [9] Ralph Rockafellar. Characterization of the subdifferentials of convex functions. *Pacific Journal of Mathematics*, 17(3):497–510, 1966.
- [10] RI Kachurovskii. Monotone operators and convex functionals. Uspekhi Matematicheskikh Nauk, 15(4):213–215, 1960.
- [11] Heinz H Bauschke and Patrick L Combettes. Convex analysis and monotone operator theory in Hilbert spaces, volume 408. Springer, 2011.
- [12] Ronald E Bruck et al. The iterative solution of the equation y ∈ x + tx for a monotone operator t in Hilbert space. Bulletin of the American Mathematical Society, 79(6):1258–1261, 1973.
- [13] Felix E Browder and Wolodymyr V Petryshyn. Construction of fixed points of nonlinear mappings in Hilbert space. Journal of Mathematical Analysis and Applications, 20(2):197–228, 1967.
- [14] Heinz H Bauschke and Patrick L Combettes. Convex analysis and monotone operator theory in Hilbert spaces. 2nd ed. CMS Books in Mathematics. Cham: Springer International Publishing, 2017.
- [15] Dirk A Lorenz and Thomas Pock. An inertial forward-backward algorithm for monotone inclusions. Journal of Mathematical Imaging and Vision, 51(2):311– 325, 2015.
- [16] George J Minty et al. Monotone (nonlinear) operators in Hilbert space. Duke Mathematical Journal, 29(3):341–346, 1962.

- [17] Donald W Peaceman and Henry H Rachford, Jr. The numerical solution of parabolic and elliptic differential equations. Journal of the Society for industrial and Applied Mathematics, 3(1):28–41, 1955.
- [18] Jim Douglas and Henry H Rachford. On the numerical solution of heat conduction problems in two and three space variables. *Transactions of the American mathematical Society*, 82(2):421–439, 1956.
- [19] Gregory B Passty. Ergodic convergence to a zero of the sum of monotone operators in Hilbert space. Journal of Mathematical Analysis and Applications, 72(2):383–390, 1979.
- [20] Paul Tseng. A modified forward-backward splitting method for maximal monotone mappings. SIAM Journal on Control and Optimization, 38(2):431–446, 2000.
- [21] Francisco J Aragón Artacho, Jonathan M Borwein, and Matthew K Tam. Recent results on douglas–rachford methods for combinatorial optimization problems. Journal of Optimization Theory and Applications, 163(1):1–30, 2014.
- [22] JB Baillon. Une remarque sur le comportement asymptotique des semigroupes non linéaires. Houston J. Math., 2:5–7, 1976.
- [23] Haim Brezis. Operateurs maximaux monotones et semi-groupes de contractions dans les espaces de Hilbert. Elsevier, 1973.
- [24] Ronald E Bruck Jr. Asymptotic convergence of nonlinear contraction semigroups in Hilbert space. Journal of Functional Analysis, 18(1):15–26, 1975.
- [25] Juan Peypouquet and Sylvain Sorin. Evolution equations for maximal monotone operators: asymptotic analysis in continuous and discrete time. arXiv preprint arXiv:0905.1270, 2009.

- [26] R Tyrrell Rockafellar. Monotone operators and the proximal point algorithm. SIAM journal on control and optimization, 14(5):877–898, 1976.
- [27] Anatoly Sergeevich Antipin. Minimization of convex functions on convex sets by means of differential equations. *Differential equations*, 30(9):1365–1375, 1994.
- [28] Jérôme Bolte. Continuous gradient projection method in Hilbert spaces. Journal of Optimization Theory and Applications, 119(2):235–259, 2003.
- [29] Ravi P Agarwal, Donal O'Regan, and DR Sahu. Fixed point theory for Lipschitzian-type mappings with applications, volume 6. Springer, 2009.
- [30] Hedy Attouch and Benar Fux Svaiter. A continuous dynamical newton-like approach to solving monotone inclusions. SIAM Journal on Control and Optimization, 49(2):574–598, 2011.
- [31] B Abbas, Hédy Attouch, and Benar F Svaiter. Newton-like dynamics and forward-backward methods for structured monotone inclusions in Hilbert spaces. Journal of Optimization Theory and Applications, 161(2):331–360, 2014.
- [32] Boushra Abbas and Hedy Attouch. Dynamical systems and forward-backward algorithms associated with the sum of a convex subdifferential and a monotone coccoercive operator. *Optimization*, 64(10):2223–2252, 2015.
- [33] Radu Ioan Bot and Erno Robert Csetnek. A dynamical system associated with the fixed points set of a nonexpansive operator. *Journal of Dynamics* and Differential Equations, 29(1):155–168, 2017.
- [34] Eduardo D Sontag. Mathematical control theory: deterministic finite dimensional systems, volume 6. Springer Science & Business Media, 2013.

- [35] Alain Haraux. Systemes dynamiques dissipatifs et applications, volume 17. Masson, 1991.
- [36] Radu Ioan Bot and Erno Robert Csetnek. Convergence rates for forward– backward dynamical systems associated with strongly monotone inclusions. *Journal of Mathematical Analysis and Applications*, 457(2):1135–1152, 2018.
- [37] Ernö Robert Csetnek. Continuous dynamics related to monotone inclusions and non-smooth optimization problems. Set-Valued and Variational Analysis, 28(4):611–642, 2020.
- [38] Sebastian Banert and Radu Ioan Bot. A forward-backward-forward differential equation and its asymptotic properties. *Journal of Convex Analysis*, 25(2):371–388, 2018.
- [39] Ernö Robert Csetnek, Yura Malitsky, and Matthew K Tam. Shadow douglas– rachford splitting for monotone inclusions. Applied Mathematics and Optimization, 80(3):665–678, 2019.
- [40] Yair Censor and Tommy Elfving. A multiprojection algorithm using bregman projections in a product space. Numerical Algorithms, 8(2):221–239, 1994.
- [41] Yair Censor, Tommy Elfving, Nirit Kopf, and Thomas Bortfeld. The multiplesets split feasibility problem and its applications for inverse problems. *Inverse Problems*, 21(6):2071, 2005.
- [42] Yair Censor, Thomas Bortfeld, Benjamin Martin, and Alexei Trofimov. A unified approach for inversion problems in intensity-modulated radiation therapy. *Physics in Medicine & Biology*, 51(10):2353, 2006.

- [43] Yair Censor, Avi Motova, and Alexander Segal. Perturbed projections and subgradient projections for the multiple-sets split feasibility problem. *Journal* of Mathematical Analysis and Applications, 327(2):1244–1256, 2007.
- [44] Charles Byrne. Iterative oblique projection onto convex sets and the split feasibility problem. *Inverse Problems*, 18(2):441, 2002.
- [45] Hong-Kun Xu. A variable krasnosel'skii-mann algorithm and the multiple-set split feasibility problem. *Inverse problems*, 22(6):2021, 2006.
- [46] Yair Censor, Aviv Gibali, and Simeon Reich. Algorithms for the split variational inequality problem. Numerical Algorithms, 59(2):301–323, 2012.
- [47] Abdellatif Moudafi. Split monotone variational inclusions. Journal of Optimization Theory and Applications, 150(2):275–283, 2011.
- [48] Kaleem Raza Kazmi and SH Rizvi. An iterative method for split variational inclusion problem and fixed point problem for a nonexpansive mapping. Optimization Letters, 8(3):1113–1124, 2014.
- [49] Abdellatif Moudafi. A relaxed alternating CQ-algorithm for convex feasibility problems. Nonlinear Analysis: Theory, Methods & Applications, 79:117–121, 2013.
- [50] Abdellatif Moudafi et al. Alternating CQ-algorithm for convex feasibility and split fixed-point problems. J. Nonlinear Convex Anal, 15(4):809–818, 2014.
- [51] Jing Zhao. Solving split equality fixed-point problem of quasi-nonexpansive mappings without prior knowledge of operators norms. *Optimization*, 64(12):2619–2630, 2015.

- [52] Shih-Sen Chang, WANG Lin, QIN Lijuan, and MA Zhaoli. Strongly convergent iterative methods for split equality variational inclusion problems in Banach spaces. Acta Mathematica Scientia, 36(6):1641–1650, 2016.
- [53] Boris T Polyak. Some methods of speeding up the convergence of iteration methods. USSR Computational Mathematics and Mathematical Physics, 4(5):1–17, 1964.
- [54] Felipe Alvarez and Hedy Attouch. An inertial proximal method for maximal monotone operators via discretization of a nonlinear oscillator with damping. *Set-Valued Analysis*, 9(1-2):3–11, 2001.
- [55] Radu Ioan Bot, Erno Robert Csetnek, and Szilard Csaba Laszlo. An inertial forward-backward algorithm for the minimization of the sum of two nonconvex functions. EURO Journal on Computational Optimization, 4(1):3–25, 2016.
- [56] Abdellatif Moudafi and M Oliny. Convergence of a splitting inertial proximal method for monotone operators. Journal of Computational and Applied Mathematics, 155(2):447–454, 2003.
- [57] QL Dong, HB Yuan, YJ Cho, and Th M Rassias. Modified inertial mann algorithm and inertial CQ-algorithm for nonexpansive mappings. *Optimization Letters*, 12(1):87–102, 2018.
- [58] Chih-Sheng Chuang. Simultaneous subgradient algorithms for the generalized split variational inclusion problem in Hilbert spaces. Numerical Functional Analysis and Optimization, 38(3):306–326, 2017.
- [59] P Majee and C Nahak. A modified iterative method for split problem of variational inclusions and fixed point problems. *Computational and Applied Mathematics*, 37(4):4710–4729, 2018.

- [60] Habtu Zegeye and Naseer Shahzad. Convergence of mann's type iteration method for generalized asymptotically nonexpansive mappings. *Computers & Mathematics with Applications*, 62(11):4007–4014, 2011.
- [61] Hong-Kun Xu. Iterative algorithms for nonlinear operators. Journal of the London Mathematical Society, 66(1):240–256, 2002.
- [62] Satoru Takahashi and Wataru Takahashi. Viscosity approximation methods for equilibrium problems and fixed point problems in Hilbert spaces. *Journal* of Mathematical Analysis and Applications, 331(1):506–515, 2007.
- [63] Vittorio Colao, Giuseppe Marino, and Luigi Muglia. Viscosity methods for common solutions for equilibrium and hierarchical fixed point problems. Optimization, 60(5):553–573, 2011.
- [64] Mohammad Eslamian. Hybrid method for equilibrium problems and fixed point problems of finite families of nonexpansive semigroups. Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas, 107(2):299–307, 2013.
- [65] S Takahashi, W Takahashi, and Mt Toyoda. Strong convergence theorems for maximal monotone operators with nonlinear mappings in Hilbert spaces. *Journal of Optimization Theory and Applications*, 147(1):27–41, 2010.
- [66] Hédy Attouch, Juan Peypouquet, and Patrick Redont. Backward-forward algorithms for structured monotone inclusions in Hilbert spaces. Journal of Mathematical Analysis and Applications, 457(2):1095–1117, 2018.
- [67] Emilie Chouzenoux, Jean-Christophe Pesquet, and Audrey Repetti. Variable metric forward–backward algorithm for minimizing the sum of a differentiable

function and a convex function. Journal of Optimization Theory and Applications, 162(1):107–132, 2014.

- [68] Patrick L Combettes and Băng C Vũ. Variable metric forward-backward splitting with applications to monotone inclusions in duality. *Optimization*, 63(9):1289–1318, 2014.
- [69] Dirk A Lorenz and Thomas Pock. An inertial forward-backward algorithm for monotone inclusions. Journal of Mathematical Imaging and Vision, 51(2):311– 325, 2015.
- [70] Hugo Raguet and Loic Landrieu. Preconditioning of a generalized forwardbackward splitting and application to optimization on graphs. SIAM Journal on Imaging Sciences, 8(4):2706–2739, 2015.
- [71] Patrick L Combettes and Teemu Pennanen. Proximal methods for cohypomonotone operators. SIAM journal on control and optimization, 43(2):731– 742, 2004.
- [72] R Tyrrell Rockafellar and Roger J-B Wets. Variational analysis, volume 317. Springer Science & Business Media, 2009.
- [73] Alfredo N Iusem, Teemu Pennanen, and Benar Fux Svaiter. Inexact variants of the proximal point algorithm without monotonicity. SIAM Journal on Optimization, 13(4):1080–1097, 2003.
- [74] Nobuhiko Ogura and Isao Yamada. Non-strictly convex minimization over the fixed point set of an asymptotically shrinking nonexpansive mapping. Numerical Functional Analysis and Optimization, 23(1-2):113–137, 2002.

- [75] Anna Nagurney and Ding Zhang. Projected dynamical systems and variational inequalities with applications, volume 2. Springer Science & Business Media, 2012.
- [76] Radu Ioan Bot and Erno Robert Csetnek. Second order forward-backward dynamical systems for monotone inclusion problems. SIAM Journal on Control and Optimization, 54(3):1423–1443, 2016.
- [77] Juan Peypouquet. Convex optimization in normed spaces: theory, methods and examples. Springer, 2015.
- [78] Radu Ioan Bot, Erno Robert Csetnek, and Szilard Csaba Laszlo. A primal-dual dynamical approach to structured convex minimization problems. *Journal of Differential Equations*, 269(12):10717–10757, 2020.
- [79] Luis M Briceno-Arias and Damek Davis. Forward-backward-half forward algorithm for solving monotone inclusions. SIAM Journal on Optimization, 28(4):2839–2871, 2018.
- [80] Barbara Franci, Mathias Staudigl, and Sergio Grammatico. Distributed forward-backward (half) forward algorithms for generalized Nash equilibrium seeking. In 2020 European Control Conference (ECC), pages 1274–1279. IEEE, 2020.
- [81] Patrick L Combettes and Valérie R Wajs. Signal recovery by proximal forwardbackward splitting. Multiscale Modeling & Simulation, 4(4):1168–1200, 2005.
- [82] Heinz H Bauschke and Patrick L Combettes. A weak-to-strong convergence principle for fejér-monotone methods in Hilbert spaces. *Mathematics of operations research*, 26(2):248–264, 2001.

- [83] Patrick L Combettes. Quasi-fejérian analysis of some optimization algorithms. In Studies in Computational Mathematics, volume 8, pages 115–152. Elsevier, 2001.
- [84] Damek Davis. Convergence rate analysis of primal-dual splitting schemes. SIAM Journal on Optimization, 25(3):1912–1943, 2015.
- [85] F Facchinei and JS Pang. Nash equilibria: The variational approach, convex optimization in signal processing and communication, 2009.
- [86] Sergio Grammatico. Dynamic control of agents playing aggregative games with coupling constraints. *IEEE Transactions on Automatic Control*, 62(9):4537– 4548, 2017.
- [87] Walid Saad, Zhu Han, H Vincent Poor, and Tamer Basar. Game-theoretic methods for the smart grid: An overview of microgrid systems, demand-side management, and smart grid communications. *IEEE Signal Processing Magazine*, 29(5):86–105, 2012.
- [88] Andrew R Romano and Lacra Pavel. Dynamic Nash equilibrium seeking for higher-order integrators in networks. In 2019 18th European Control Conference (ECC), pages 1029–1035. IEEE, 2019.
- [89] Miloš S Stankovic, Karl H Johansson, and Dušan M Stipanovic. Distributed seeking of Nash equilibria with applications to mobile sensor networks. *IEEE Transactions on Automatic Control*, 57(4):904–919, 2011.
- [90] Peng Yi and Lacra Pavel. An operator splitting approach for distributed generalized Nash equilibria computation. *Automatica*, 102:111–121, 2019.
- [91] Giuseppe Belgioioso and Sergio Grammatico. Projected-gradient algorithms for generalized equilibrium seeking in aggregative games are preconditioned

forward-backward methods. In 2018 European Control Conference (ECC), pages 2188–2193. IEEE, 2018.

- [92] Francisco Facchinei and Christian Kanzow. Generalized Nash equilibrium problems. Annals of Operations Research, 175(1):177–211, 2010.
- [93] Francisco Facchinei and Jong-Shi Pang. Finite-dimensional variational inequalities and complementarity problems. Springer Science & Business Media, 2007.
- [94] Mattia Bianchi and Sergio Grammatico. A continuous-time distributed generalized Nash equilibrium seeking algorithm over networks for double-integrator agents. In 2020 European Control Conference (ECC), pages 1474–1479. IEEE, 2020.
- [95] Mattia Bianchi and Sergio Grammatico. Continuous-time fully distributed generalized Nash equilibrium seeking for multi-integrator agents. arXiv preprint arXiv:1911.12266, 2019.
- [96] Hedy Attouch and Szilárd Csaba László. Continuous newton-like inertial dynamics for monotone inclusions. Set-Valued and Variational Analysis, pages 1–27, 2020.
- [97] Hedy Attouch and Alexandre Cabot. Convergence of damped inertial dynamics governed by regularized maximally monotone operators. *Journal of Differential Equations*, 264(12):7138–7182, 2018.
- [98] Hedy Attouch and Jean-Bernard Baillon. Weak versus strong convergence of a regularized newton dynamic for maximal monotone operators. *Vietnam Journal of Mathematics*, 46(1):177–195, 2018.

- [99] Minh N Bùi and Patrick L Combettes. Warped proximal iterations for monotone inclusions. Journal of Mathematical Analysis and Applications, 491(1):124315, 2020.
- [100] Simeon Reich and Shoham Sabach. Two strong convergence theorems for a proximal method in reflexive banach spaces. Numerical Functional Analysis and Optimization, 31(1):22–44, 2010.
- [101] Shoham Sabach. Iterative Methods for Solving Optimization Problems. Technion-Israel Institute of Technology, Faculty of Mathematics, 2012.
- [102] Luis M Briceno-Arias and Patrick L Combettes. Monotone operator methods for nash equilibria in non-potential games. In *Computational and Analytical Mathematics*, pages 143–159. Springer, 2013.
- [103] Patrick L Combettes and Jean-Christophe Pesquet. Proximal splitting methods in signal processing. In *Fixed-point algorithms for inverse problems in science and engineering*, pages 185–212. Springer, 2011.
- [104] Ronald Glowinski and Patrick Le Tallec. Augmented Lagrangian and operatorsplitting methods in nonlinear mechanics, volume 9. SIAM, 1989.
- [105] Hedy Attouch, Zaki Chbani, and Hassan Riahi. Combining fast inertial dynamics for convex optimization with tikhonov regularization. Journal of Mathematical Analysis and Applications, 457(2):1065–1094, 2018.