

Publications

Research Interests:

- Fixed Point Theory and Applications to Economics and Finance
- Actuarial and Financial Mathematics
- Financial Mathematics
- Investment Modeling in Financial Markets
- Risks in Financial Markets

Publications:

- 1) D. Al Ghanim, S. Chebbi and K. B. Kachhia2Variable-Order Fractal-Fractional Derivatives for Financial Chaos Analysis with Numerical Simulations, Contemporary Mathematics 2025.
- 2) S. Chebbi and S. Ounaies, Optimal Investment of Merton Model for Multiple Investors with Frictions, Mathematics, Vol. 11 No. 4, 2023.
- 3) N. Altwaijry, T. Aldhaban, S. Chebbi and and H-K. Xu, The viscosity approximation method for accretive operators in Banach spaces, Journal of Nonlinear and Variational Analysis, Vol. 6, No 1, 37-50, 2022.
- 4) N. Altwaijry, T. Aldhaban, S. Chebbi and and H-K. Xu, Krasnoselskii-Mann Viscosity Approximation Method for Nonexpansive Mappings, Vol. 8 No. 7, 2020.
- 5) H-K. Xu, N. Altwaijry and S. Chebbi, Strong Convergence of Mann's Iteration Process in Banach Spaces, Mathematics, Vol. 8 No. 8, 2020.
- 6) H-K. Xu, N. Altwaijry and S. Chebbi, Xu, An iterative regularization method for variational inequalities in Hilbert spaces, Carpathian Journal of Mathematics, Vol. 36 No. 3, 475-482, 2020.
- 7) S. Baraket, S. Chebbi and N. Chorfi, Construction of singular limits for a strongly perturbed four-dimensional Navier problem with exponentially dominated nonlinearity and nonlinear terms, Boundary Value Problems, Vol. 2019 No. 1, 2019.

- 8) S. Ounaies, J-M. Bonnisseau and S. Chebbi, Equilibrium of a production economy with unbounded attainable allocation sets, accepted in *Advances in Nonlinear Analysis*, Vol 8 No 1, 2019.
- 9) N. Altwaijry, S. Ounaies and S. Chebbi, generalized convexity and applications to fixed points theorems and equilibria, *Journal of Fixed Point Theory and Applications*, Vol. 20 No. 1, 2018.
- 10) N. Altwaijry, S. Chebbi, H. Hammami and P. Gourdél, Borsuk's antipodal fixed-point theorems for compact or condensing set-valued maps, *Advances in Nonlinear Analysis*, Vol. 7 No. 3, 307-311, 2018.
- 11) S. Chebbi, N. Altwaijry and H-K. Xu, A strongly convergent modifications of the proximal point algorithm in nonsmooth Banach space, *Fixed Point Theory*, Vol. 19 No. 1, 107-122, 2018.
- 12) H. Hammami, S. Chebbi and H-K. Xu, The implicit convex rule for nonexpansive mappings, *Journal of Nonlinear and Convex Analysis*, Vol. 17 No. 7, 1429-1437, 2016.
- 13) S. Ounaies, J-M. Bonnisseau, S. Chebbi and H.M. Soner, Merton Problem for a Discrete Market in an Infinite Horizon and with Frictions, *Journal of Industrial Management and Optimization*, Vol. 12 No. 4, 1-9, 2016.
- 14) N. Altwaijry, S. Chebbi and H-K. Xu, Properties and splitting method for the p-elastic net, *Pacific Journal of Optimization*, Vol. 12 No. 4, 801-811, 2016.
- 15) N. Altwaijry, S. Chebbi and H-K. Xu, Ergodic convergence of the double backward method for monotone operators, *Journal of Nonlinear and Convex Analysis*, Vol. 16 No. 7, 1195-1204, 2015.
- 16) Y-H. Wang, S. Chebbi and H-K. Xu.; Weak convergence of iterative methods for two accretive operators in Banach spaces, *Journal of Nonlinear and Convex Analysis*, Vol. 16 No. 10, 1937-1947, 2015.
- 17) S. Chebbi and B. Samet, Noncompact Equilibrium Points for Set-Valued Maps, *Abstract and Applied Analysis*, Art Number: 959612, 2014.
- 18) Z. Al-Rumaih, S. Chebbi and H.K. Xu, A Halpern-Lions-Reich-like iterative method for nonexpansive mappings, *Journal of Fixed Point Theory*, Vol. 14 No. 2, 2013.12.

- 19) S. Chebbi and H.M. Soner, Merton problem in a discrete market with frictions, *Nonlinear Analysis, Real World Applications*, Vol 14, 179-187, 2013.
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- 21) Z. Al-Remih, S. Chebbi and H.K. Xu, Non-compact equilibrium point and applications, *Journal of Applied Mathematics*, V 2012, 1-9, 2012.
- 22) S. Chebbi, P. Gourdel and H. Hammami, A Generalization of Fan's matching theorem, *Journal of Fixed-Point Theory and Applications*, Vol. 9 No. 1, 117-124, 2011.
- 23) JM. Bonnisseau, S.Chebbi, P. Gourdel and H. Hammami, Borsuk's antipodal theorem for approachable correspondences, *Non Linear Analysis: Theory, Methods & Applications*, Vol. 73 No.11, 3502-3506, 2010.
- 24) S. Chebbi, Some non-compact quasi-variational inequalities, *NonLinear Analysis: Theory, Methods & Applications (ISI)*, Vol. 71 No.12, 1684-1687, 2009.
- 25) S. Chebbi, Existence of Pareto equilibria for non-compact multi-criteria games, *Journal of Applied Analysis*, Vol. 14 No. 2, 219-226, 2008.
- 26) S. Chebbi, Minimax inequalities and equilibria with a generalized coercivity, *Journal of Applied Analysis*, Vol.12, 117-125, 2006.
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- 32) S. Chebbi, Fixed point, maximal element and equilibria in generalized convex spaces, "Cahiers Eco&Maths de l'Université de Paris 1", (France), 1997.