

## Viability by Noël Bonneuil

Bonneuil, N. (2022) Optimal control of genetic diversity in the Moran model with population growth, *Journal of Biological Systems* 30(01), 27-50.

Bonneuil, N. and Raouf Boucekkine (2020) Genetic diversity and its value: conservation genetics meets economics, *Conservation Genetics Resources* 12, 141–151.

Bonneuil, N. (2018) Population growth and nash equilibria under viability constraints in the commons. *Journal of Optimization Theory and Applications* 176, 478–491.

Bonneuil, N. and Raouf Boucekkine (2017) Viable Nash equilibria in the problem of common pollution, *Pure and Applied Functional Analysis* 2(3), 427-440.

Bonneuil, N. (2017) Maintain and acquire: the viability principles in population economics, *Revue d'économie politique* 127(2), 153-172.

Bonneuil, N. (2016) Arrival of courtly love: moving in the emotional space, *History and Theory* 55, 2 (May), 253-269.

Bonneuil, N. and Raouf Boucekkine (2016) Optimal transition to renewable energy with threshold of irreversible pollution, *European Journal of Operational Research* 248, 257–262.

Bonneuil, N. (2015) Emotions as dynamic systems in viability sets, *Mathematical and Computer Modelling of Dynamical Systems* 21(5), 460-479.

Bonneuil, N. and Raouf Boucekkine (2014) Viable Ramsey economies, *Canadian Journal of Economics* 47(2), 422-441.

Bonneuil, N. (2014) Morphological transition of schooling in 19th century France, *Journal of Mathematical Sociology* 38, 95-114.

Bonneuil, N. (2013) Viabilité, probabilités, induction. *Tracés* (éditions de l'ENS) 24, 71-84.

Bonneuil, N. (2012) Multiallelic polymorphism maintained by unpredictable migration and selection, *Journal of Theoretical Biology* 293, 189-196.

Bonneuil, N. (2012) Maximum under continuous-discrete-time dynamic with target and viability constraints, *Optimization* 61(8), 901-913.

Bonneuil, N. (2012) Computing reachable sets as capture-viability kernels in reverse time, *Applied Mathematics* 3(11), 1593-1597.

Bonneuil, N. (2010) The mathematics of time in history, *History and Theory* 49, 27-45.

Bonneuil, N. (2010) Diversity of preferences in an unpredictable environment, *Journal of Mathematical Economics* 46, 965-976.

- Bonneuil, N. (2010) Viability and Optimality in Vintage Models, in R. Boucekkine, N. Hritonenko, Y. Yatsenko, *Optimal Control of Age-structured Populations in Economy, Demography, and the Environment*, New York: Taylor and Francis, pp. 108-125.
- Bonneuil, N. (2009) Do historians make the best futurists? *History and Theory* 48, 98-104.
- Bonneuil, N. and P. Saint-Pierre (2008), Beyond optimality: managing children, assets, and consumption over the life cycle, *Journal of Mathematical Economics* 44 (3-4), 227-241.
- Bonneuil, N. (2008) The mathematics of maintenance and acquisition, in J. Chen and C. Guo (ed), *Ecosystem Ecology Research Trends*, New York: Nova Science Publishers, pp. 153-175.
- Bonneuil N. (2006) Computing the viability kernel in large state dimension, *Journal of Mathematical Analysis and Applications* 323 (2), 1444-1454.
- Bonneuil N. and P. Saint-Pierre (2005) Population viability in three trophic-level food chains, *Applied Mathematics and Computation* 169/2, 1086-1105.
- Bonneuil, N. and R. Boarini (2004) Preserving transfer benefit for present and future generations, *Mathematical Population Studies* (G. Feichtinger and V. Veliov editors) 11(3-4), 181-204.
- Bonneuil, N. and P. Saint-Pierre (2004) The hybrid guaranteed viability capture basin algorithm in economics, in *Hybrid Systems: Computation and Control*, R. Alur and G. J. Pappas (eds), *Lecture Notes in Computer Science* 2993. Berlin: Springer Verlag, 187-202.
- Bonneuil, N. (2004) Repertoires, frequentism, and predictability, *History and Theory* 43(1), 117-123.
- Bonneuil, N. (2003) Making ecosystem models viable, *Bulletin of Mathematical Biology* 65, 1081-1094.
- Bonneuil, N. and Saint-Pierre, P. (2002) Minimal Number of Generations out of Polymorphism In the One-Locus Two-Allele Model with Unpredictable Fertilities, *Journal of Mathematical Biology* 44-6, 503-522.
- Bonneuil N. (2002) History, Differential inclusions, and Narrative, in *The return of Science: Evolution, History, and Theory*, ed by Philip Pomper and David Gary Shaw. New York, Oxford: Rowman & Littlefield Publishers, pp. 215-232.
- Aubin J.-P., Bonneuil, N., Maurin, F., and Saint-Pierre, P. (2001) Viability of Pay-As-You-Go Systems, *Journal of Evolutionary Economics* 11, 555-571.
- Bonneuil N. (2001) History, Differential inclusions, and Narrative, *History and Theory* 40, 101-115.
- Bonneuil N. (2000) Viability in Dynamic Social Networks, *Journal of Mathematical Sociology* 24(3), 175-182.
- Aubin J.-P., Bonneuil N. and Maurin F. (2000) Non-linear Structured Population Dynamics with Co-Variates, *Mathematical Population Studies* 9(1), 1-31.

Bonneuil N. and Saint-Pierre P. (2000) Protected polymorphism in the two-locus haploid model with unpredictable fitnesses, *Journal of Mathematical Biology* 40 (3) 251-277.

Bonneuil N., (1998) Population paths implied by the mean number of pairwise nucleotide differences among mitochondrial DNA sequences, *Annals of Human Genetics* Jan 62, 61-73.

Bonneuil N. (1998) Games, Equilibria, and Population Regulation under Viability Constraints: an interpretation of the work of the anthropologist Fredrik Barth, *Population* English Selection special issue New Methods in Demography, 151-179.

Bonneuil N. et K. Müllers (1997) Viable Populations in a Prey-Predator System, *Journal of Mathematical Biology* 35, 261-293.

Bonneuil N. (1994) Malthus, Boserup and Population Viability, *Mathematical Population Studies* 4(5), 107-119.

Bonneuil N. (1994) Capital accumulation, inertia of consumption and norms of reproduction, *Journal of Population Economics* 7, 49-62.