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Arrow-Barankin-Blackwell theorems and related results in cone duality: A survey. (English)

[Zbl 0982.90048](#)

Nguyen, Van Hien (ed.) et al., Optimization. Proceedings of the 9th Belgian-French-German conference, Namur, Belgium, September 7-11, 1998. Berlin: Springer. Lect. Notes Econ. Math. Syst. 481, 119-131 (2000).

Summary: We attempt a brief survey on the cone duality and on the density theorems of Arrow-Barankin and Blackwell's type [*K. Arrow, E. Barankin* and *D. Blackwell*, Contrib. Theory of Games II, Ann. Math. Studies 28, 87-91 (1953; [Zbl 0050.14203](#))]. Concerning the latter aspect we show the equivalence of two recent and ostensibly different results. We follow a unified approach which provides in particular a simple way of surveying these results and their proofs.

For the entire collection see [[Zbl 0935.00054](#)].

MSC:

[90C29](#) Multi-objective and goal programming

[90C46](#) Optimality conditions and duality in mathematical programming

Cited in **9** Documents

Keywords:

[vector optimization](#); [efficient points](#); [positive functionals](#); [denting points](#); [cone duality](#)