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**Sur une famille de fonctions univalentes et bornées. (On a family of univalent and bounded functions).** (French) [\[Zbl 0712.30020\]](#)

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Let  $S_1(a)$  denote the space of all functions  $f$ , holomorphic and univalent in the unit disk  $U$ , of the form

$$f(z) = b_1z + b_2z^2 + \dots, \quad b_i \in \mathbb{C},$$

such that  $a \notin f(U)$ ,  $|a| < 1$  fixed, and  $f(U) \subset U$ . Let  $\psi(f)$  be a complex and continuous functional defined on  $S_1(a)$ . Using variational methods, the author investigates the functional  $\operatorname{Re} \psi(f)$  defined on  $S_1(a)$  and proves some properties of extremal functions. An example is given.

Reviewer: [O.Fekete](#)

**MSC:**

[30C70](#) Extremal problems for conformal and quasiconformal mappings, variational methods

[30H05](#) Spaces of bounded analytic functions of one complex variable

**Keywords:**

[extremal functions](#)

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