

**Saigo, Megumi; Maeda, Nobuyuki**

**More generalization of fractional calculus.** (English) [Zbl 0926.26003](#)

Rusev, P. (ed.) et al., Transform methods and special functions. Proceedings of the 2nd international workshop, Varna, Bulgaria, August 23–30, 1996. Sofia: Bulgarian Academy of Sciences, Institute of Mathematics and Informatics. 386-400 (1998).

In this paper a generalization of operators of fractional integration introduced by the first author in the eighteenth containing the Appell function  $F_3$  in the kernel is investigated. Mapping properties in McBride spaces  $F_{p,\mu}$  and index laws are proved.

For the entire collection see [\[Zbl 0914.00065\]](#).

Reviewer: [H.-J. Glaeske \(Jena\)](#)

**MSC:**

[26A33](#) Fractional derivatives and integrals

[33C45](#) Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.)

Cited in **6** Reviews

Cited in **47** Documents

**Keywords:**

fractional integrals and derivatives; Appell function  $F_3$ ; McBride spaces; index laws