



Volume 6, Issue 4, Article 123

On Global Approximation Properties of Abstract Integral Operators in Orlicz Spaces and Applications

Authors: [Carlo Bardaro](#), [Ilaria Mantellini](#),

Keywords: Modular approximation, nonlinear integral operators, regular families, singularity.

Date Received: 25/08/05

Date Accepted: 01/09/05

Subject Codes: 41A25, 41A35, 47G10, 46E30.

Editors: [Sever S. Dragomir](#),

Abstract: In this paper we study approximation properties for the class of general integral operators of the form

$$(T_w f)(s) = \int_{H_w} K_w(s, t, f(t)) d\mu_{H_w}(t) \quad s \in G, \quad w > 0$$

where G is a locally compact Hausdorff topological space, $(H_w)_{w>0}$ is a net of closed subsets of G with suitable properties and, for every $w > 0$, μ_{H_w} is a regular measure on H_w . We give pointwise, uniform and modular convergence theorems in abstract modular spaces and we apply the results to some kinds of discrete operators including the sampling type series.



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)

[search](#)

[\[advanced search\]](#)

[copyright 2003](#)

[terms and conditions](#)

[login](#)