Title: New generalizations of Németh–Mohapatra type inequalities on time scales Authors: R. P. Agarwal, R. R. Mahmoud, S. H. Saker, and C. Tunç Publication date: 18 April 2017 Journal name: Acta Mathematica Hungarica (ISSN: 0236-5294) (IF: 0.538, Q[‡]) Volume: 152; Pages: 383–403. Publisher: Springer. Received: 9 December 2016; Revised: 15 February 2017; Available online: 18 April 2017. Authors' contributions: The authors are contributed equally to this article. Is the research extracted from a scientific thesis? : No URL: http://dx.doi.org/10.1007/s10474-017-0718-2; DOI: 10.1007/s10474-017-0718-2

Abstract: Some new dynamic inequalities on time scales are established, that reduce in the discrete and the continuous cases to classical inequalities named after Németh and Mohapatra, respectively. The new generalized inequalities resemble intensive classical inequalities known in the literature such as Beesack type inequalities, Copson type inequalities and Hardy–Littlewood type inequalities. The main results will be proved by employing the time scales Hölder inequality and the time scales power rules for integrations that have been proved earlier.