# On generalized digital Lines * 

Fumie Nakaoka, Fumikazu Tamari and Haruo Maki
Received June 21, 2014; revised July 17, 2016, January 16, 2017, January 18, 2017

AbSTRACT. In the present paper, we introduce and study the concept of generalized digital lines, say $(\mathbb{Z}, \kappa(q, n))$, where $q$ and $n$ are positive integers with $2 \leq q<n$ and $n \not \equiv 0(\bmod q)$; especially, for $q=2$ and $n=3$, $(\mathbb{Z}, \kappa(2,3))$ is identical with the digital line $(\mathbb{Z}, \kappa)$ (=the Khalimsky line due to E.D. Khalimsky).

