1145-VU-2077   **Zeinab Bandpey*** (`zeinab.bandpey@morgan.edu`), 1700 East Cold Spring Lane, Baltimore, MD 21251, and **Bhamini P. Nayar** (`bhamini.nayar@morgan.edu`), 1700 East Cold Spring Lane, Baltimore, MD 21251. *A Study of Generalized Continuous Functions.*

In the paper, Weak Continuity Forms, Graph Conditions and Applications, the concept of u-continuous functions are introduced and presented several applications of such functions. In the present study, by generalizing the concept of u-continuity using the notion of an α-set, introduced by O. Njastad , three classes of functions are introduced and studied. The concepts introduced here are strongly u-continuous functions, αu-continuous functions and semi-αu-continuous functions. A function $g : X \to Y$ is αu-continuous (strongly u-continuous, semi-αu-continuous) at $x \in X$, if for each α-set (α-set, open set) W which contains a closed neighborhood of $g(x)$, there exists an α-set (open set, α-set) V which contains a closed neighborhood of x and satisfies condition $g(clV) \subseteq clW$. If g is αu-continuous (strongly u-continuous, semi-αu-continuous) at each $x \in X$, we say $g : X \to Y$ is αu-continuous (strongly u-continuous, semi-αu-continuous) on X. (Received September 24, 2018)