A MATHEMATICAL MODEL FOR E-INCLUSION

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ABSTRACT

E-inclusion is a techno-social phenomenon that encompasses governmental and non-governmental activities initiated to overcome social exclusion that result from disintegration with the evolving information and knowledge based societies.

This paper presents a mathematical model for e-inclusion to develop a scientific understanding to e-inclusion and to aid e-inclusion stakeholder's decision makers in setting e-inclusion plans and strategies.

The presented model, which is a Modified Non-deterministic Finite Automata (MNFA), is competent to figure out the digital gap/s an individual/social group undergoes, and to execute e-inclusion activities needed to bring up digitally exclusive individuals and social group as an active participant in the e-society. The model is synchronizing with the dynamic behavior of the digital gaps that underline e-inclusion.

KEYWORDS: Digital Gaps, E-Inclusion, E-Exclusion Factors, E-Inclusion Model, Non-Deterministic Finite Automata