

# Unified Eco-innovation Methodology Based on TRIZ and C-K

Ousmane Senghor, Marie Ndiaye and Khalifa Gaye

Laboratoire d'Informatique et d'Ingénierie pour l'Innovation, Université Assane Seck de Ziguinchor, BP 523, SENEGAL  
o.senghor1919@gmail.com

**Abstract.** This article presents a methodological contribution for eco-innovation in order to assist design teams in the development of eco-innovative products. We propose a unified methodology that allow users to self-guide in order to create eco-innovative product concepts through the application of C-K theory combined with the TRIZ method while integrating the principles of the ASIT method. Understanding the links between the different sources of knowledge in relation to the birth of eco-innovative concepts allows us to design one or more generic solutions. A simplified and adapted application of TRIZ will lead us to an eco-innovative solution

**Keywords:** Eco-design, Eco-innovation, TRIZ, ASIT, C-K, AI