Title:Computing for the Future of the Planet

Abstract:
Digital technology is becoming an indispensable and crucial component of our lives, society, and environment.   A framework for computing in the context of problems facing the planet will be presented.   The framework has a number of goals: an optimal digital infrastructure, sensing and optimising with a global world model, reliably predicting and reacting to our environment, and digital alternatives to physical activities. Practical industrial examples will be given as well as research goals.