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BACKGROUND
Conventional computers are aimed at stored-program-controlled data processing based on mathematical logic and Boolean algebra. The future-generation computers are aimed at cognitive and perceptive concept/knowledge processing based on contemporary denotational mathematics. The latest advantages in many information/knowledge-based disciplines have led to the establishment of cognitive informatics (CI) and neural informatics (NeI). CI is a transdisciplinary enquiry of cognitive and information sciences that investigates into the internal information processing mechanisms and processes of the brain and natural intelligence. NeI is a new interdisciplinary enquiry of the biological and physiological representation of information and knowledge in the brain at the neuron level and their abstract mathematical models. The theories of CI and NeI are intended not only to explain the nature and mechanisms of computing, but also shed light on developing future-generation computers that think and feel.

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