



E-man Part II: Application of Neural Networks for Classification of Bauxite

K Viswanath¹, R Sambasiva Rao², Ch V Kameswara Rao³, K Rama Krishna³, B Rama Krishna¹ and G E G Santhosh⁴

¹Dept of Geology, ²School of Chemistry, Andhra University, Visakhapatnam 530 003, India

³Department of Chemistry, Gitam Institute of Science, Gitam University, Visakhapatnam, 530 017, India

⁴School of Earth Sciences, SRTM University, Nanded, Maharashtra, India

E-mail: rsr.chem@gmail.com

Dedicated to Dr V Anantha Ramam, Professor of Chemistry, Andhra University, Visakhapatnam, India

ABSTRACT

E-man (Evolution of Mimics of Algorithms of Nature) comprises of mapping of processes in nature (animate/inanimate) onto mathematical algorithmic domain. The software implementation of mimicking nature in functioning of brain, foraging, social interaction, , hereditary, evolution and mating brought renaissance in parametric/nonparametric data processing into information in all science/ engineering/ technological research.

Keywords: Geochemistry, Transition metal/lanthanides, ICP_MS, Neural network, PCA, Bauxite, classification, E-man, Ore-benefaction
