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[Fundamentals of Artificial Neural Networks Published in: Proceedings of the IEEE \(Volume: 84 , Issue: 6 , June 1996\) Article #: Page\(s\): 906 Date of Publication: June 1996 . ISSN Information: Print ISSN: 0018-9219 Electronic ISSN: 1558-2256 INSPEC Accession Number: Persistent Link: ...](#)

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[The introduction to this Chapter concerns principal ideas of the formulation of Artificial Neural Networks \(ANNs\), main features of neurocomputation, its development and applications. The main attention is paid to feedforward NNs, especially to the error backpropagation algorithm and Back-Propagation Neural Networks \(BPNNs\).](#)

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Our neural network Black and white images are feed as input and processed through pre-processing network which removes noise from grayscale video The second layer/network is called as source - reference network which takes output from pre-processing network along with reference colour images and colorizes image based on it. source-reference network consists of Temporal Source-Reference Attention which helps us to compute similarities between the reference images and the input images and it ...

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