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Question: Consider the BiGAN and its loss function. Show that, in order t...

Consider the BiGAN and its loss function. Show that, in order to fool a perfect discriminator D. BiGAN encoder E and generator G must invert each other. That is, G(E(x)) = x and E(G(z)) = z

Expert Answer



Uiiwal Sharma answered this

1.151 answers

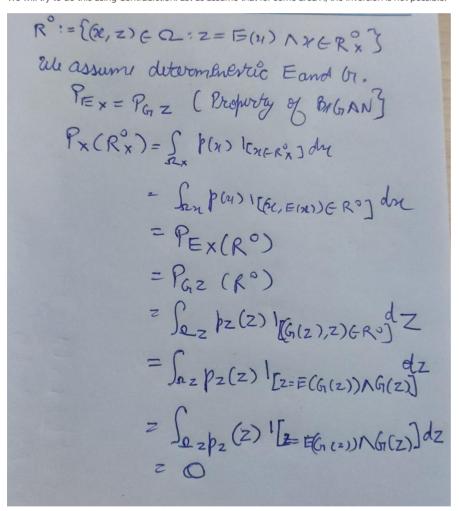
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We will try to do this using Contradiction. Let us assume that for some area X, the inversion is not possible.



Here we see the region RX has 0 measure over the region and this implies that the inversion property applies. So, we can reject the main statement and accept that encoder E and generator G must invert each other in BiGAN.

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A: See answer

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