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

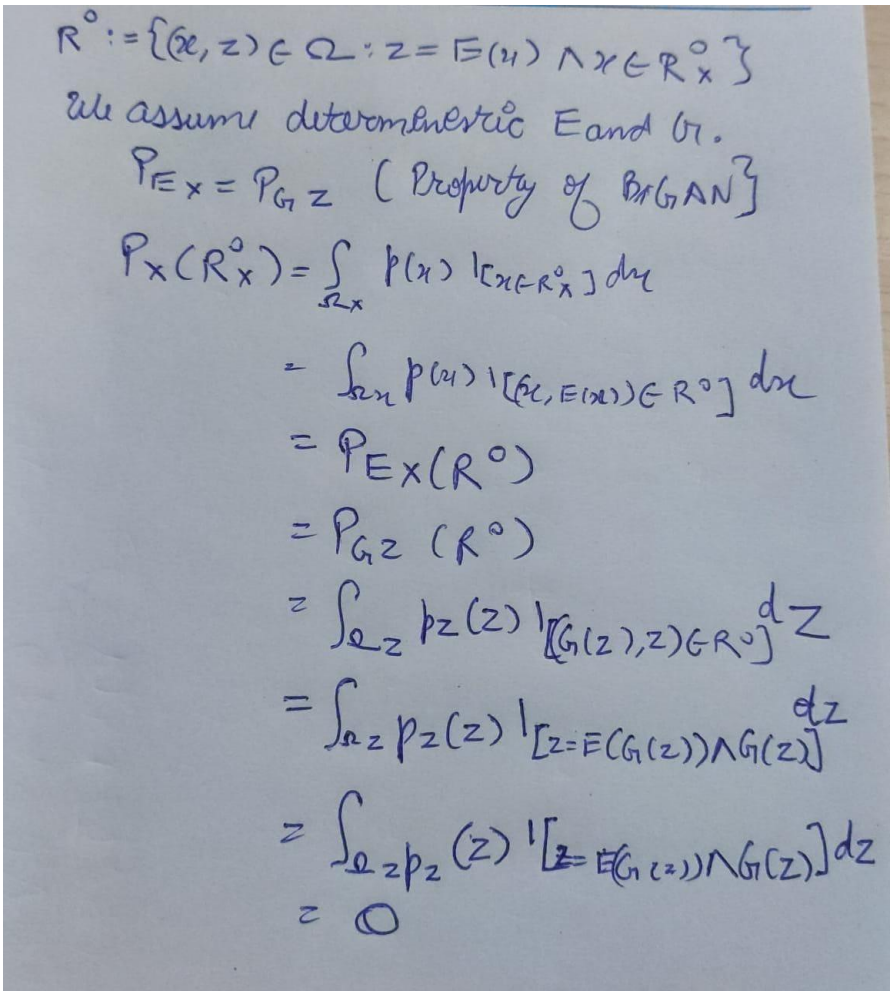
Expert Answer

Ujjwal Sharma answered this
1,151 answers

Was this answer helpful? 0 0

In Case of any queries, please revert back.

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.

View comments >

Questions viewed by other students

Q: 6. Show that the global minimum of C(G) = maxV(G, D) is achieved if and only if PG = Pdata. At that point, show that C(G) achieves the value – log 4. D

the probability that a 6 ft. by 10 ft. sheet of this type of glass will contain: less than 2 flaws? b. at least 1 flaw?

A: See answer 94% (16 ratings)

Show more