SimCrackGAN

Synthesizing Semantic Crack Images Using Propagation Simulations and GANs

Dataset

The comprehensive dataset used in this study consists of **90,000 images** and is available for download. The dataset is organized into two main parts:

- 1. Real-World / Ground Truth CFD Dataset (20,000 images):
 - This is a collection of 10,000 real-world crack images and 10,000 ground truth images:
 - These images serve a dual role: they act as the **ground truth** for the GAN's training and generation process, and also as the dataset for **comparison and evaluation** of the model's performance.
- 2. GAN-Generated Data (70,000 images):
 - o **10,000 image ground truth** generated by our primary GAN model.
 - o **30,000 images** generated by the GAN with added noise.
 - o **30,000 images** generated by the noise-free GAN.

Download the dataset here: SimCrackGan Dataset

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