

## ADVERSARIAL MACHINE LEARNING

## WHAT IS ADVERSARIAL MACHINE LEARNING?

 Adversarial Examples are data points obtained by adding systematic noise into training samples.

The noise is added in such a manner that target classifier will misclassify the

- adversarial examples.Study of generating such Adversarial Exar
- Study of generating such Adversarial Examples and defences against such attacks is called Adversarial Machine Learning.

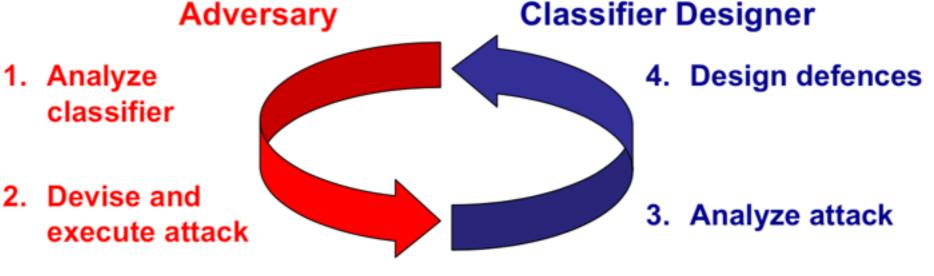
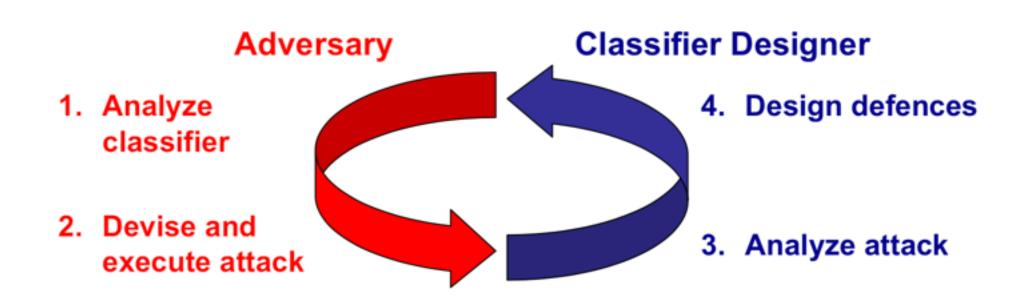


Image Source: <a href="http://pralab.diee.unica.it/en/WhatIsAdversarialLearning">http://pralab.diee.unica.it/en/WhatIsAdversarialLearning</a>

## RESEARCH LANDSCAPE

- Attack Models (Part I)
  - How to convert a pure example into an adversarial example for a given classifier net?
- Defence Mechanism (Part II)
  - How to train a DNN classifier so as to make it robust against the attacks?

## WHAT IS ADVERSARIAL MACHINE LEARNING?



- Adversarial Examples are data points obtained by adding systematic noise into training samples.
- The noise is added in such a manner that target classifier will misclassify the adversarial examples.
- > Study of generating such Adversarial Examples and defences against such attacks is called **Adversarial Machine Learning**.