

# Local and Global Coverage Assessment of Deep Learning Models

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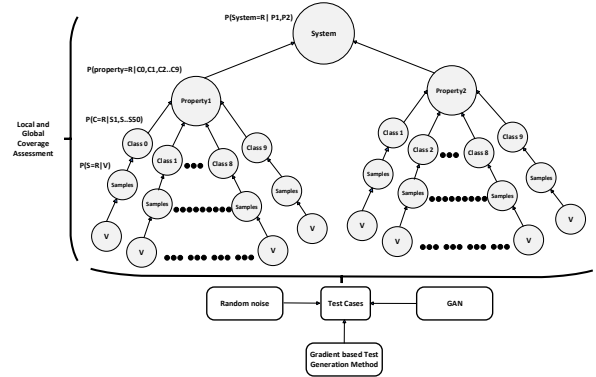
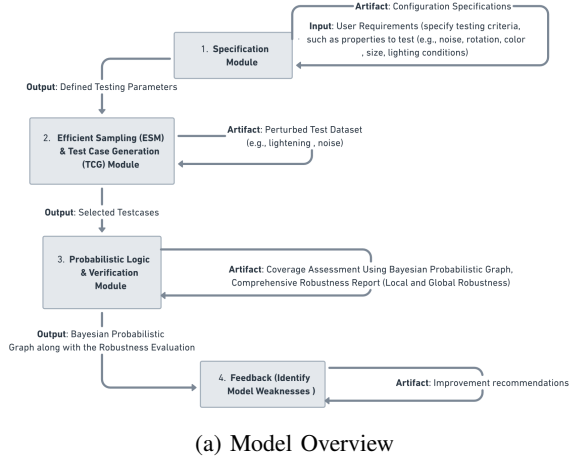
**Abstract—**

## I. INTRODUCTION

- Background
- Generic problem
- Existing solution
- Problem in existing solutions

## II. METHODOLOGY

- A. Define Criteria
- B. Sampling
- C. Test Case Generation
- D. Verify Test Cases
- E. Probabilistic Graph
- F. Feedback



## III. RESEARCH QUESTIONS

- How to specify relevant local robustness properties?
- Can probabilistic graphical models effectively assess local and global robustness in deep learning?

## IV. EXPERIMENTAL SETUP

## V. THREATS TO VALIDITY

- Assume random samples
- Valid test case generation

## VI. RELATED WORK

## VII. CONCLUSION

## REFERENCES

[1] Reference details