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

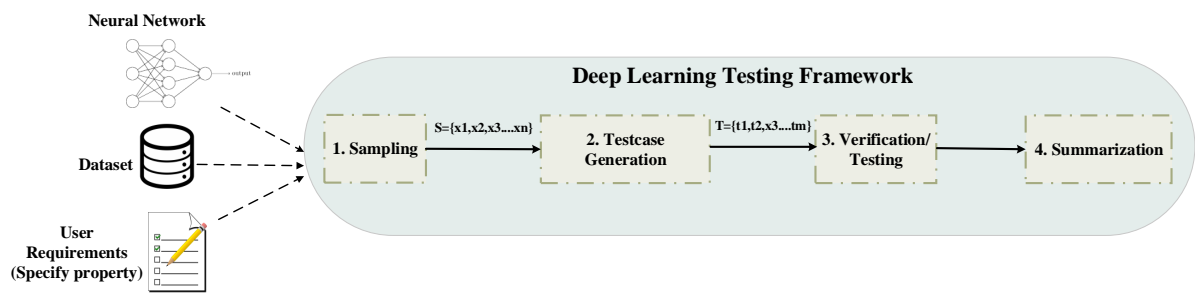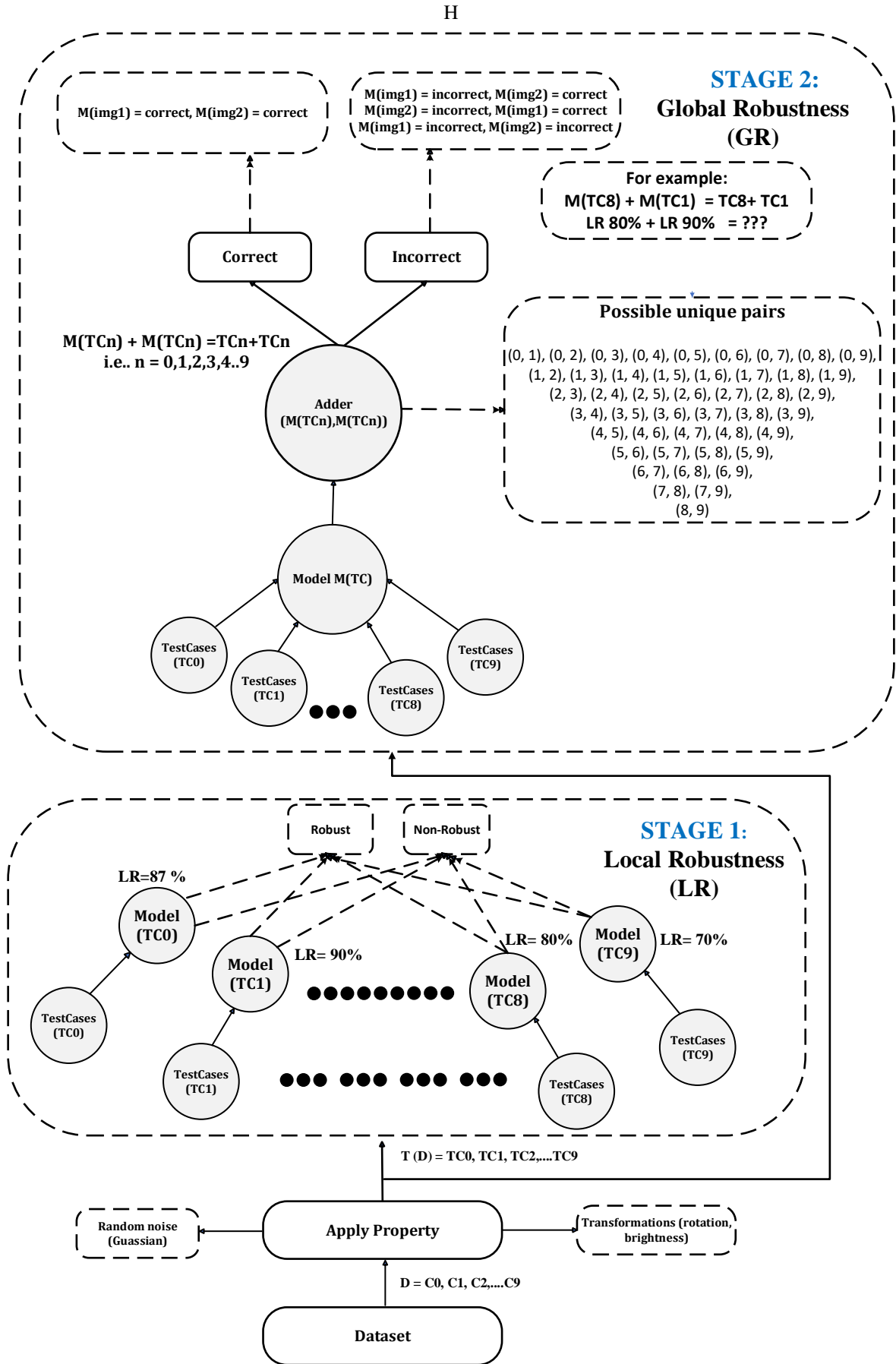## VII. CONCLUSION

REFERENCES

[1] Reference details

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Fig. 1: Graphical Representation

Fig. 2: Graphical Representation