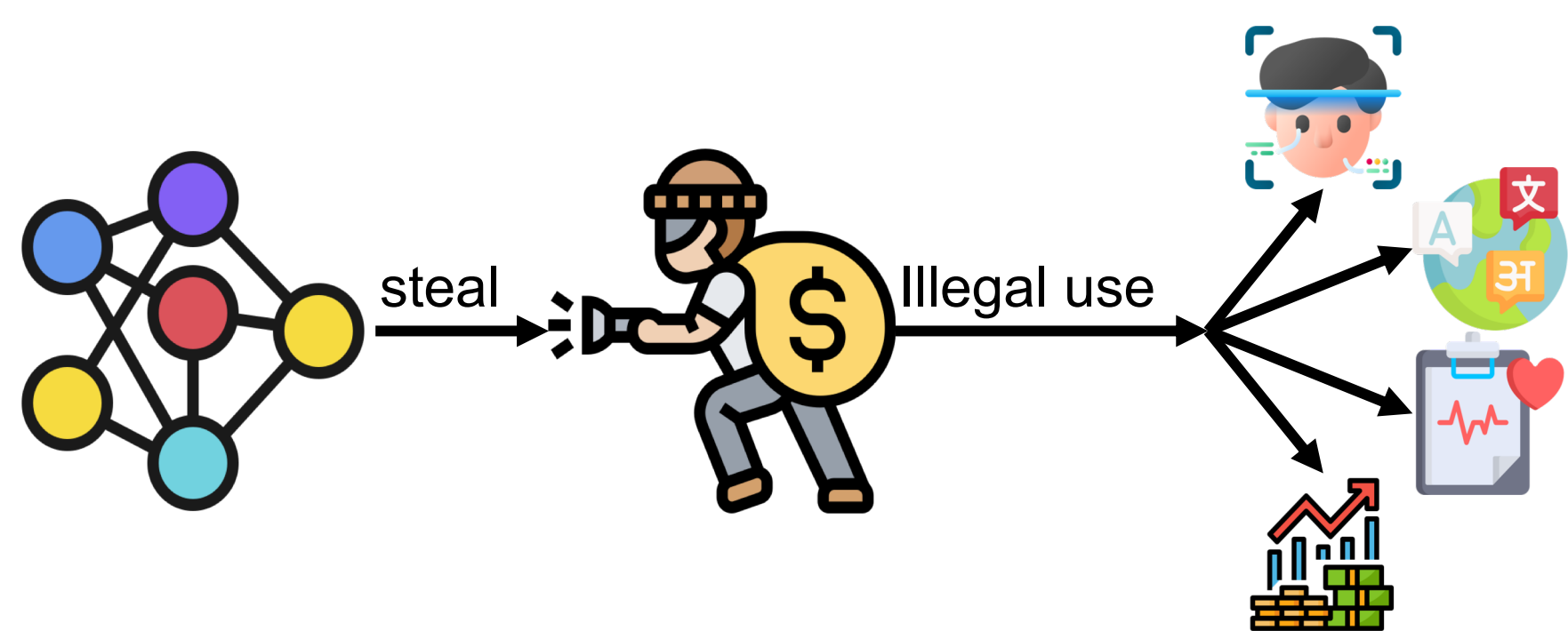


MOTIVATION

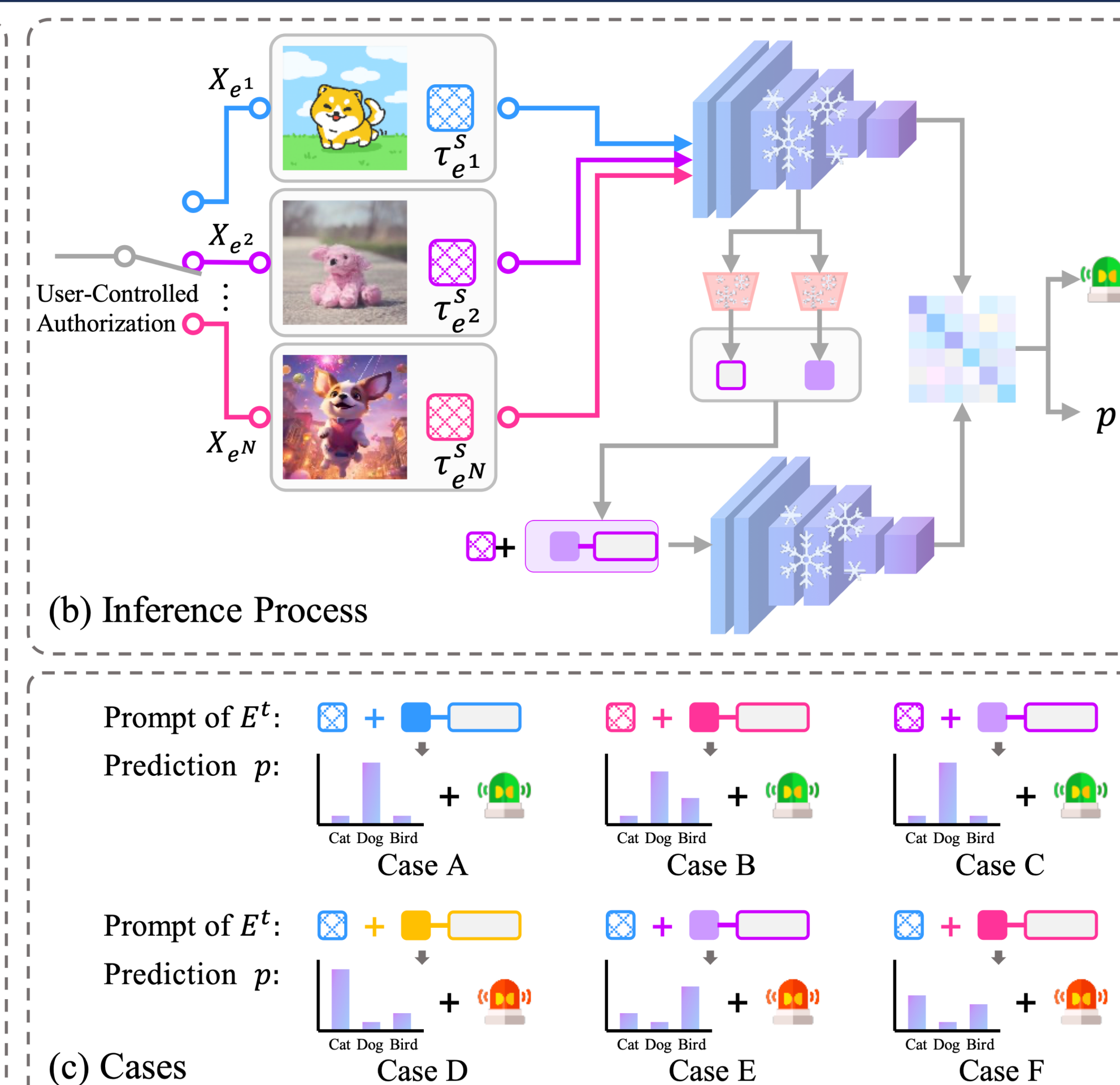
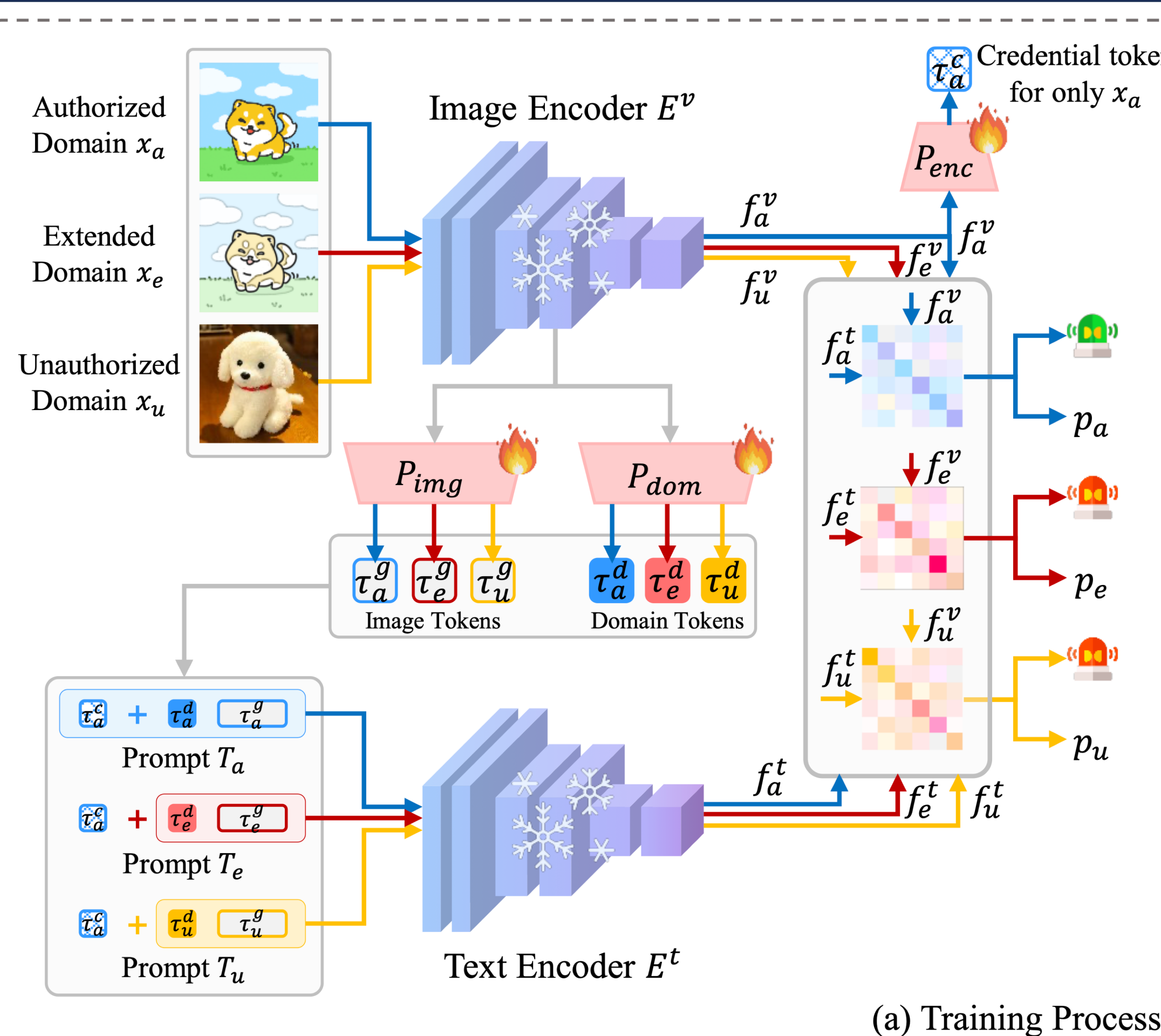
Has your model ever been stolen?

You spent \$100K training your VLM. Are you sure it's not running on your competitor's servers right now?



- **Model IP protection** safeguards your AI assets against illegal deployment.
- Yet, thieves now exploit your VLMs by **migrating** it to **unauthorized domains**.
- Current defenses block this, but they **fail upon any new domain** and **force a total retraining**.

METHODOLOGY



Architecture:

- **Learnable Projector:** Create image, domain and credential tokens.
- **Credential Token:** Lightweight token bound securely to authorized domain.
- **Extended Domain:** Simulate diverse and unknown domains in real-world scenarios.

Inference:

- ✓ **Case A:** Yields **normal** task predictions and legality-aware outputs.
- **Cases D-F:** Triggers **error predictions** and **unauthorized flags**.
- ✓ **Cases B-C:** Add **new domains** from the provider.

CONTRIBUTION

1. **Initiating Framework:** The **first authorization** framework for VLMs.
2. **Authorize-on-Demand:** Plug-and-play domain keys with **instant activation**.
3. **Retraining-Free:** Decoupled architecture with **zero** computational nightmare.
4. **Dual-Path Inference:** Simultaneous task prediction and **legality-aware verification**.

EXPERIMENT

Unauthorized Accuracy Drop: **77.54%** **Authorized Accuracy Drop:** **0.13%**

More evaluations, benchmark comparisons, and ablation studies are detailed in the main paper.

Related Publications

- [1] **Lianyu Wang**, et al. Say No to Freeloader: Protecting Intellectual Property of Your Deep Model. *IEEE TPAMI*, 2024, 46(12):11073-11086.
- [2] **Lianyu Wang**, et al. A Compact Un-Transferable Isolation Domain for Model Intellectual Property Protection. *IEEE/CVF CVPR 2023*, 2023:20475-20484.
- [3] **Lianyu Wang**, et al. Vision-Language Model IP Protection via Prompt-based Learning. *IEEE/CVF CVPR 2025*, 2025:9497-9506.
- [4] **Lianyu Wang**, et al. Authorize-on-Demand: Dynamic Authorization with Legality-Aware Intellectual Property Protection for VLMs. *IEEE/CVF CVPR 2026*.