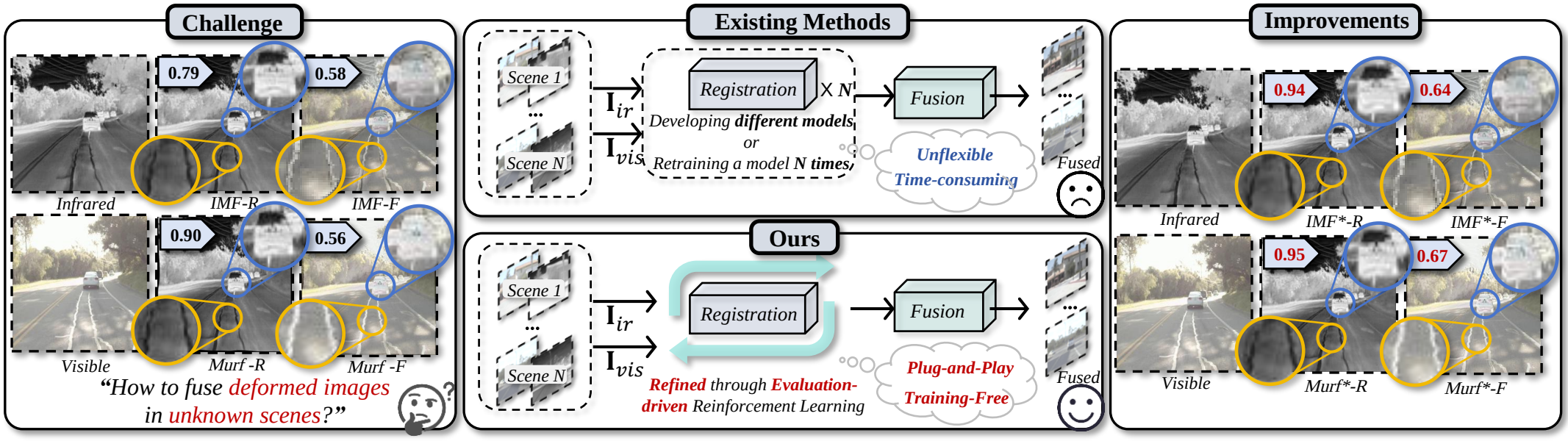
Challenge
0.79
0.58
Infrared
IMF-R
IMF-F
0.90
0.56
Visible
Murf -R
Murf -F
"How to fuse deformed images in unknown scenes?"
Existing Methods
Scene 1
Scene N
I_{ir}
I_{vis}
Registration
X N
Developing different models or Retraining a model N times
Fusion
Unflexible
Time-consuming
Fused
Ours
Registration
Fusion
Refined through Evaluation-driven Reinforcement Learning
Plug-and-Play
Training-Free
Improvements
0.94
0.64
Infrared
IMF*-R
IMF*-F
0.95
0.67
Visible
Murf*-R
Murf*-F