CECoD-driven Response Generation Conversational Emotional Chain-of-Decoding Response Dialogue Emotional Response Text Response Speech Utterance-Level Response Speech Word-Level Speech Rendering **Empathetic Prediction** Clues Understanding **Empathetic Prediction** Generation **Speech Generation LLM Response Text with Response Speech Dialogue Emotional Response Text** CosyVoice **Speech Prosody Tags Emotion Caption Clues Caption** a_{n+1} $\mathit{ECLU}_{1 o n}$ EC_{n+1} (Agent) t_{n+1} (Agent) \blacksquare (Agent) EC_{n+1} **Spoken Dialogue LLM** Meta LoRA (Llama 3-8B-chinese-chat) $(U_{1 o n}')$ Dialogue Semantics-Emotion Tokenization Emotion Emotion Emotion **Emotion** Caption Caption Speech Autoregressive Speech Speech Speech **Emotion Emotion Emotion** Decoding **Emotion** Captioner Captioner Captioner Captioner Concatenation U_1 (Speaker) U_3 (Speaker) U_n (Speaker) U_2 (Agent) **Dialogue History**