



www.aria.org

**The Second International Conference on Generative Pre-trained Transformer Models and Beyond
GPTMB 2025**

July 6 - 10, 2025 - Athens, Greece

<http://www.aria.org/conferences2025/GPTMB25.html>

Important deadlines:

Submission (full paper)	March 18, 2025
Notification	May 4, 2025
Registration	May 18, 2025
Camera ready	June 1, 2025

Tracks:

Generative-AI basics

- Generative Pre-trained Transformer Models
- Combination of GPT models and Reinforcement learning models
- Creativity and originality in GPT-based tools
- Deep learning
- Large Language Models (LLM)
- Autoregressive language models
- Accuracy and relevancy

Critical issues on Input Data

- Datasets: accuracy, granularity, precision, false/true negative/positive
- Visible vs invisible (private, personalized) data
- Data extrapolation
- Output biases and biased Datasets
- Sensitivity and specificity of Datasets
- Fake and incorrect information
- Volatile data
- Time sensitive data

Critical Issues on Processing

- Process truthfulness
- Explainability
- Detect biases and incorrectness
- Incorporate the interactive feedback
- Incorporate corrections

Output quality

- Output biases and biased Datasets
- Sensitivity and specificity of Datasets
- Context-aware output
- Fine/Coarse text summarization
- Quality of Data pre-evaluation (obsolete, incomplete, fake, noisy, etc.)
- Validation of output
- Detect biased and incorrect summarization before spreading it

Education and academic liability issues

- User awareness on output trust-ability
- Copyright infringements rules
- Plagiarism and self-plagiarism tools
- Ownership infringement
- Mechanisms for reference verification
- Dealing with hidden self-references

Regulations and limitations

- Regulations (licensing, testing, compliance-threshold, decentralized/centralize innovations)
- Mitigate societal risks of GPT models
- Capturing emotion and sentience
- Lack of personalized (individual) memory and memories (past facts)
- Lack of instant personalized thinking (personalized summarization)
- Risk of GPTM-based decisions
- AI awareness
- AI-induced deskilling

Case studies with analysis and testing AI applications

- Lesson learned with existing tools (ChatGPT, Bard AI, ChatSonic, etc.)
- Predictive analytics in healthcare
- Medical Diagnostics
- Medical Imaging
- Pharmacology
- AI-based therapy
- AI-based finance
- AI-based planning
- AI-based decision
- AI-based systems control
- AI-based education
- AI-based cyber security