ELSEVIER

Generative AI: Theory and Applications

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This comprehensive volume would focus on the latest advancements in Generative AI, including state-of-the-art techniques and models that are pushing the boundaries of what is possible. It would cover recent developments in areas such as Generative AI models, transfer learning and Natural Language Processing (NLP) highlighting their potential to revolutionize content generation and creative applications including OpenAI, LangChain, NLTK and their practical implementations across diverse domains. The volume would provide insights into emerging research area, novel architectures, and innovative approaches in Generative AI, giving researchers a glimpse into the exciting future of the field. Our aim is to offer readers a deep understanding of Generative AI and how it can be harnessed to tackle complex real-world challenges.

The main topics of interest for this book include, but are not limited to:

- Generative AI: Fundamentals and Evolution
- Natural Language Processing in Generative AI using NLTK
- State-of-the-Art Generative Models
- Generative AI for Smart Data Analytics
- Development of Large Language Models using LangChain framework
- Generative AI applications and Industry 4.0
- Transfer Learning and Few-Shot Learning in Generative AI
- Generative AI applications development using OpenAI
- Knowledge Representation and Reasoning in Generative AI based Expert Systems
- Ethical and Security Challenges of Generative AI
- Harnessing Generative AI for Lightweight Cryptography
- Generative AI for Social Good and Sustainable Development
- Generative Adversarial Networks (GANs)
- Image Generation
- Other related topics may also be included

IMPORTANT DATES:

ABSTRACT SUBMISSION:
15-12-2023

DECISION ON ABSTRACT:
30-12-2023

FULL PAPER SUBMISSION:
30-02-2024

PEER REVIEW & DECISION:
30-04-2024

Authors are requested to send a one-page proposal containing:
(i) Title of the chapter,
(ii) Names of all contributors, affiliations, emails,
(iii) Summary of proposed chapter
Abstract submission link:
https://tinyurl.com/42btc75y