

CONTENTS

Introduction by Kai-Fu Lee: The Real Story of AI	xi
Introduction by Chen Qiufan: How We Can Learn to Stop Worrying and Embrace the Future with Imagination	xix
1. THE GOLDEN ELEPHANT	3
ANALYSIS: DEEP LEARNING, BIG DATA, INTERNET/FINANCE APPLICATIONS, AI EXTERNALITIES	22
2. GODS BEHIND THE MASKS	33
ANALYSIS: COMPUTER VISION, CONVOLUTIONAL NEURAL NETWORKS, DEEPPAKES, GENERATIVE ADVERSARIAL NETWORKS (GANS), BIOMETRICS, AI SECURITY	55
3. TWIN SPARROWS	67
ANALYSIS: NATURAL LANGUAGE PROCESSING, SELF-SUPERVISED TRAINING, GPT-3, AGI AND CONSCIOUSNESS, AI EDUCATION	108

4. CONTACTLESS LOVE	121
ANALYSIS: AI HEALTHCARE, ALPHAFOLD, ROBOTIC APPLICATIONS, COVID AUTOMATION ACCELERATION	152
5. MY HAUNTING IDOL	167
ANALYSIS: VIRTUAL REALITY (VR), AUGMENTED REALITY (AR), AND MIXED REALITY (MR), BRAIN-COMPUTER INTERFACE (BCI), ETHICAL AND SOCIETAL ISSUES	200
6. THE HOLY DRIVER	211
ANALYSIS: AUTONOMOUS VEHICLES, FULL AUTONOMY AND SMART CITIES, ETHICAL AND SOCIAL ISSUES	246
7. QUANTUM GENOCIDE	255
ANALYSIS: QUANTUM COMPUTERS, BITCOIN SECURITY, AUTONOMOUS WEAPONS AND EXISTENTIAL THREAT	302
8. THE JOB SAVIOR	313
ANALYSIS: AI JOB DISPLACEMENT, UNIVERSAL BASIC INCOME (UBI), WHAT AI CANNOT DO, 3RS AS A SOLUTION TO DISPLACEMENT	344
9. ISLE OF HAPPINESS	357
ANALYSIS: AI AND HAPPINESS, GENERAL DATA PROTECTION REGULATION (GDPR), PERSONAL DATA, PRIVACY COMPUTING USING FEDERATED LEARNING AND TRUSTED EXECUTION ENVIRONMENT (TEE)	389
10. DREAMING OF PLENITUDE	401
ANALYSIS: PLENITUDE, NEW ECONOMIC MODELS, THE FUTURE OF MONEY, SINGULARITY	423
ACKNOWLEDGMENTS	441
INDEX	443