## Index

Agent-based models (ABMs), 46 AI Cooperating System (AICS), 147–148 Allied Command Operations (ACO), 156 Allied Command Transformation (ACT), 156 Anti-Submarine Detection Investigation Committee (ASDIC), 41 Artificial conscience concerns, 91–93 definition, 83–84 ethics, 93 moral judgment, 87, 89 moral motivation, 87, 89–90 moral skill, 87, 90 rejoinders, 91–93	leader decision-making, 24–26 machine learning, 15–16 military and nongovernment agencies, 2 moral reasoning, 121–136 Natural Intelligence vs., 64–65 programming morality, 144–145 role, 19 Russia, 3 space war, 63–77 types, 139–140 unmanned underwater vehicle (UUV) systems, 5 Asteroid mining, 73–74 Autonomous AI, moral guidance, 140–141 Autonomous Unmanned Vehicles (AUVs), 5
Artificial Intelligence (AI), 33–34	Autonomy, 14–15
Autonomous Unmanned Vehicles	Autonomy, 14–13
(AUVs), 5 autonomy, 14 benefits and drawbacks, 105 civilian and military applications, 8–9 cyberattacks, 12–14 distributed sensors, 2–3 ethics, 167–175	Civilian applications, 8–9 Clarification, 58–60 Classically narrow AI systems, 39–43 Community, 145–147 Context, 145–147 Continuum argument, 126–129 Cyberattacks, 12–14
future warfare, 9–11 global security, 21–24, 167–175, 177–183 global situation awareness (GSA), 4 innovation, 6–7 Intelligence Preparation of the Battlespace (IPB), 6 intelligentization, 5 international perspectives, 17–21 just war theory (JWT), 66, 68–76 LAWS, 67–68	Data ecosystem, 106–109 Data privacy apps, 115–116 data ecosystem, 106–109 data security vs., 104–105 definition, 100–103 digital authoritarianism, 109–111 diversity, 99 Facebook, 112–113 informed consent, 112 social media platforms, 115

surveillance economy, 96, 109–111 virtual environment, 97–98 Data security, 104–105 Diffusion and adoption (D&A) Anti-Submarine Detection Investigation Committee	robot, 169 Global situation awareness (GSA), 4 GLOBSEC NATO adaptation, 158 Good Old Fashioned Artificial Intelligence (GOFAI), 122–124
(ASDIC), 41	Google Inception, 42
Artificial Intelligence, 33–34	Google Translate, 42
classically narrow AI systems,	
39–43	Human intelligence, 146
crisis response, 43–47	Humans relationships, 44
humans relationships, 44	Human-supervised AI system, 139
innovation ecosystems, 34-37	
load balancing cycle, 43	Imitation game, 64
mathematical algorithms, 42	Independence, 68
sonar technology, 40	Informed consent, 112
types, 37–39	Innovation, 6–7
Digital authoritarianism, 109–111	ecosystems, 34–37
Diversity, 99	Intelligence Preparation of the
Dual-use paradox, 172	Battlespace (IPB), 6
Ed:	Intelligentization, 3
Ethics	International perspectives, 17–21
AI Cooperating System (AICS), 147–148	Internet of Things (IoT) technology, 98
community, 145-147	Leader decision-making, 24–26
context, 145–147	Lethal autonomous weapons systems
divergence, 144	(LAWS), 63, 169, 170–172
European Reassurance Initiative	Load balancing cycle, 43
(ERI), 156	
	Machine learning, 15–16
Facebook, 112–113	Mathematical algorithms, 42
Framework for Future Alliance	Metaethical principle of moral luck, 76
Operations (FFAO), 158,	Military applications, 11–12
159 Enture worfers 0, 12	Moral agency, 131–133
Future warfare, 9–12	Moral judgment, 87, 89 Moral motivation, 87, 89–90
Global security, 20–24	Moral reasoning
dual-use paradox, 172	Artificial Intelligence (AI), 122–124
ethics, 172–173	continuum argument, 126–129
future transformation, 176–183	definition, 129–131
lethal autonomous weapons systems	existential war, 124–126
(LAWS), 169, 170–172	Good Old Fashioned Artificial
narrow versus general AI (AGI),	Intelligence (GOFAI),
169	122–124

moral agency, 131–133	Self-organization, 46
war, 133–135	Small Unit Space Transport and
Moral responsibility, 142–144	Insertion (SUSTAIN),
Moral sensitivity, 89	74–75
Moral skill, 87, 90	Social intelligence, 146
Moral values, 54	Social media platforms, 115
Mutual dependence, 68-69	Sonar technology, 40
Mutually assured destruction	Space-based solar power (SBSP),
(MAD), 69	70–71
· /	Strategic Foresight Analysis (SFA),
National security, intelligence, and	158
defense (NSID) operations,	Supreme Allied Commander
137–141	Transformation (SACT),
NATO	158
changes, 155-157	Supreme Emergency, 75
collaboration, 155–157	
strategic vision, 162–163	Technological aliasing., 44
transformation, 157–162	Technology-driven approaches, 45
NATO ACT, 161	
NATO defence planning process	Unmanned underwater vehicle (UUV)
(NDPP), 161	systems, 5
OSIRIS-Rex, 74	Virtual environment
	personal organizers, 99
Programming morality, 144-145	synced location services (SLC), 98
	Virtue ethics, 76
Red line analysis, 72	
Rejoinders, 91–93	World War II, 68
Risk, 75–76	
Rules of engagement (ROE), 59	Zombie/robot argument, 65