

# INDEX

- Abstraction, 3–4, 8, 9, 14,  
19, 22, 24, 31, 33, 39,  
40, 48, 65, 74, 89, 90,  
110, 113  
abstract intellectualism,  
24  
abstract time, 54  
Acquisition of knowledge,  
87  
Adaba, B., 163  
Advanced Camera for  
Surveys Wide Field  
Camera (ACS WFC),  
115  
Aesthetics, 7–13, 40, 41,  
45, 47–48  
metaphysical, 47  
technical, 40–41, 45  
Agamben, G., 2, 163  
Agential Realism, 146  
Agriculture, 19, 20, 153,  
155, 175  
Alaimo, S., 145  
Algorithmic governance,  
140  
Alphabet, 22, 23, 24,  
26–27, 29, 30, 34, 42,  
46, 105, 108, 112  
Amazon, 154  
Amazon S3, 95  
Anaesthetics, 7–13, 17,  
44, 47, 48  
Analogue, 71–84  
Analogue-to-digital (A/D)  
conversion, 80, 117  
Ancient Greek philosophy,  
23  
Anthropocentric, 5, 45,  
132, 147  
Anthropocracy, 1, 5  
Anthropomorphism, 10,  
12, 13, 14, 21–22, 27,  
28, 29, 37, 43, 48, 80,  
84, 87, 90, 110, 127,  
132, 135–136, 163,  
166  
persistence of, 127–131  
Anthropos, 13, 16  
Anthropo-technical, 121  
Aphorism, 29  
Apocalypse, 22, 102, 106,  
108, 179  
Aristotle, 23  
Artificial intelligence (AI),  
143, 179  
Åsberg, C., 145

- Ataraxia*, 14  
 ATMs (Automated Teller Machines), 41–43  
 A Toroidal LHC ApparatuS (ATLAS), 98, 104  
 Authorship, 23  
 Automation, 22–69, 154, 170  
  
*Banausos* (βάνανσος), 49  
 Barad, K., 5, 20, 80, 145–148  
 Bernes, J., 129  
 Big Bang, 1, 21, 22, 97, 107, 114  
 BIPM, 56  
 Bitcoin, 170  
 Blockchain technology, 167–168  
 Body, 2, 8, 14, 23, 96, 114, 173  
 Boyle, R., 35  
 Braidotti, R., 145  
 Bratton, B., 67, 128, 144, 145  
 Braverman, H., 2, 120, 156, 173  
 Bridle, J., 134–135  
 Bruno, G., 35  
 Brustein, J., 141  
  
 Caffentzis, G., 174  
 Caliskan, A., 142  
 Callinikos, A., 141  
 Calo, R., 142  
 Capitalism, 54, 129  
     contemporary, 138, 154  
     disaster, 135  
     feudal system, 142  
     financialized, 96  
     neoliberal, 154  
     rentier, 4, 157, 166, 167  
 Chander, A., 142  
 Chemical vapour deposition (CVD), 93  
*Chresis* (χρήσις), 2  
 Chronocracy, 52–57  
 Civic freedom, 56  
 Civil surveillance, 144  
 Civilization, 2, 4, 15–16, 24, 56, 60, 149, 156, 162, 175  
 Climate change, 145  
 Cloth manufacturing, 54  
 CMOS chip, 91  
 Cognition, 37  
 Colonialism, 163  
 Commonality, 9  
 Communication, 8, 9, 37  
     scientific, 121  
 Compact Muon Solenoid (CMS), 98, 99, 104, 105  
 Computer–human interaction, 144  
 Contemporary hyper-financialized economy, 157  
 Convenience, 41, 143, 144, 164, 173  
 Corbyn, J., 166  
 Counterantidisintermediationism, 157–159  
 Crawford, A., 61, 142  
 Crawford, K., 142

- Cryptocurrencies, 168, 170  
 Cultural transformation, 30  
 Culture of compliance,  
     140  
 Cyber-control, 45, 128  
  
 Daston, L., 49, 124–125  
 Data, 13–15  
     digital, 71–87, 125  
     immaterial, 130  
     natural, 15–16  
 De la Mettrie, J. O., 36  
 Democritus, 161  
 Demos, 21, 25, 31, 46, 49  
 Descartes, R., 35, 36  
 Digital sound processing  
     (DSP), 78, 82  
 Digital-to-analogue (D/A)  
     conversion, 79, 80  
 Digitization, 71–87  
 Disaster capitalism, 135  
 Disembodied, 35, 36, 47  
*Dispositif*, 90, 93–94,  
     96–97, 107, 108, 144,  
     150, 151, 156, 159  
     techno-industrial, 144,  
     150, 156, 159  
     techno-political, 150  
 Division of labour, 62  
 Domestication, 7–15, 20,  
     45  
  
 EC2 services, 95  
 Ecology, 41, 44  
     media, 131–144  
*Ecumene*, 135, 136–137  
 Electricity, 58–61  
     electrification, 58–61  
  
 Embodied, 33, 45, 113,  
     166  
 Enlightenment, 31, 140,  
     146  
 Environment of services,  
     41  
 Environmental justice, 136  
 Epicurus, 161  
 Epistemology, 23, 148,  
     163  
 Ethico-ontoepistemology,  
     147  
 European Center for  
     Nuclear Research  
     (CERN), 98, 99, 102,  
     109  
 European Free Software  
     Foundation, 130  
 Everyday communism, 152  
 Excess, 73, 135, 151, 162,  
     164, 170  
  
 Fabrication, 89–121  
 Faith in science, 37  
 Falkenburg, B., 113, 125  
 Federici, S., 62–63,  
     152–153, 174  
 Feenberg, A., 4  
 Fert, A., 134  
 Feuerbach, L., 7, 109  
 First-degree price  
     discrimination, 143  
 Flusser, V., 4, 5, 9, 17,  
     19–20, 22, 26,  
     30–31, 33, 42, 48, 50,  
     51, 83, 107, 110–114,  
     176  
 Ford, 154

- Foucault, M., 107  
 4-dimensional time-space continuum, 18  
 Fowler, G., 138  
 Franklin, U., 140  
 Freedman, M., 96, 138  
 Freedom, 24, 41, 56, 61, 62, 69, 73, 83, 94, 115, 131, 137, 138, 142, 149, 150–151  
 Fuchs, C., 54
- Galileo, 35, 36  
 Galison, P., 49, 124–125  
 Gassendi, P., 35  
 Giant magnetoresistance (GMR), 134  
 Gottlieb, B., 29, 90, 110, 125, 151, 163  
 Gramophone, 39–41, 75, 76  
 Grechko, G., 132  
 Green technologies, 135  
 Gross, E., 145  
 Grünberg, P., 134  
 Gutenberg Press, 35
- Havelock, E. A., 24–26, 31  
 Hegel, G. W. F., 19, 29  
 Higgs Boson, 97–115  
 Hird, M., 145  
 History, 30, 31  
   as product, 57–58  
 Holism, 5, 113, 125, 147  
 Hubble Ultra-Deep Field (HUDF), 115–121  
 Hudson, M., 157
- Human universality, 46  
 Humphrey, J. W., 54  
 Hyper-feudalism, 158
- ICT sector, 60  
 IMF, 130  
 Immersive listening, 46  
 Imperialism, 178  
 Individual, 31, 101, 166  
 Individualism, 8, 148  
 Individuality, 24, 29  
 Infinitesimal, 2, 47–48, 50, 60, 71–72, 78, 80, 81, 96, 98, 101, 102, 105, 112, 113, 127, 137, 148  
 Informational commodity, 35  
 Injustice, 138, 139  
 Innis, H., 32  
 Institutional racism, 145  
 Intellectual activity, 35  
 Intellectual commodity, 35  
 Intellectual property (IP) law, 142  
 ISO, 56, 62, 93
- Johansson, M., 108  
 Justice, 32, 127
- Kalecki, M., 61  
 Kant, I., 18  
 Klein, N., 135, 178  
 Kleiner, D., 167  
 Knight, W., 154  
 Knowledge, 51, 76, 101, 110, 121, 125, 152  
   acquisition, 87

- distinguished from wisdom, 27
- as instrument, 29
- scientific, 86–87
- status of, 84–87
- technical, 50
- transcendent, 29
- trans-disciplinary, 83
- Kosner, A. W., 68
- Lada, 154
- Language, 8, 10–13, 22
- machine, 142
- Large Hadron Collider (LHC), 97–99, 103–106, 108–109, 114
- Lavoisier, A., 49
- Lederman, L., 106
- Leucippus, 161
- Literacy, 24, 44
- Lockheed Missile (Lockheed Martin), 119
- Machine language, 142
- Machine learning (ML), 143
- Magnetism, 59
- Majewska, E., 144
- Marx, K., 38, 54, 55, 61, 63, 65, 107, 129, 131, 152, 157, 158, 159, 176
- Materialization, 123–160
- Mazzucato, M., 134
- McLuhan, M., 2, 5, 22, 29, 31, 33, 36, 38, 41, 42, 44, 45, 46, 47, 73, 105, 107, 110, 111, 113, 131, 140
- McVeigh, K., 163
- Measurement, 48
- Mechanical model of Nature, 36
- Media ecology, 131–144
- Metaphor, 50, 52, 90, 101, 110, 147
- Mineral, 2, 61, 65, 67, 73, 106, 126, 156, 162, 163
- Molecular Assembler, 103
- Morozov, E., 139
- Morrison, P., 139
- Mystification, 2, 25
- Natural data, 15–16
- Nature versus noumenon, 19
- Nature/culture distinction, 146
- Natureculture, 20
- Negative externalities, 135
- Neoliberal capitalism, 154
- Neo-liberal per-feudalism, 158
- New materialism, 144–149
- Noise art, 39
- Nordmann, A., 124
- Noumenon, 13, 14, 18, 19
  - distinguished from nature, 19
- Oikoi*, 135
- Oikos*, 133

- Ong, W. J., 24  
 Onomatopoeia, 10–12, 21  
 Ontoepistemology, 80  
 Ontology, 23  
 Open Knowledge  
     Foundation (Open Knowledge International), 177  
 Oroza, E., 156  
  
 Phonograph, 75  
 Photoemulsion process, 93  
 Physics, 114  
 Pixels, 89–97  
 Plato, 23, 27, 85, 112  
     poetry, rejection of, 23, 25–26, 31  
 Plautus, 53–54  
*Polis*, 46, 133  
 Politics, 127–131  
 Ponzi scheme, 130  
 Posthumanism, 146  
 Post-industrial economy, 562  
 Post-truth arguments, 164  
 Precision, 45, 50, 61, 165  
 Primitive accumulation, 66, 138, 164, 166  
 Prometheus, 178  
 Ptolemy, 51  
 Pure embodied reason, 36  
  
 Quantum physics, 112–113, 147  
 Queer materialism, 147  
  
 Rabinow, P., 108  
 Rancière, J., 133  
  
 Rationality, 46  
 Read, L. E., 96  
 Record, 23, 24, 27, 57, 74–75, 78–79, 99, 166  
     recording, 39, 40, 73–79, 83  
 Regulation, 61–69, 127  
 Rentier capitalism, 4, 157, 166, 167  
 Reproductive labour, 62, 152–153, 174  
 Roof, J., 34  
 Ryge, L., 158  
  
 Sampling, 72, 78  
 Sanders, B., 166  
 Schmid, G., 87  
 Science, 49, 86  
     faith in, 37  
     secularization of, 37  
 Scientific communication, 121  
 Scientific knowledge, 86–87  
 Scientific texts, exchange of, 35  
 Secularization of science, 37  
 Selectable Optical Filter Array (SOFA), 117  
 Sensors, 71–72  
 Sexism, 145  
 Shapiro, C., 141  
 Sharing economy, 174  
 Sharp, 93  
 Silent observation, 46  
 Simondon, G., 101

- Slave, 2, 16, 31, 37, 38, 46,  
     63, 65, 66, 133, 160,  
     162, 163, 169, 176  
 Slavery, 2, 69, 162, 175,  
     176  
 Smart City, 139, 142  
 Smith, A., 95, 154  
 Socialism, 176  
 Socrates, 27, 85  
 Solidarity, 141, 166  
 Sputnik, 131, 132, 133  
 Standard Model (SM), 97,  
     103  
 Standard time, 55  
 Standardization, 23, 26,  
     33, 34, 36, 37,  
     54–57, 90, 127,  
     137, 155  
 Star Trek replicator, 103  
 Status of knowledge,  
     84–87  
 Sterne, J., 79  
 Stiegler, B., 178  
 Sublimation, 13, 15, 18,  
     19, 84, 105  
 Sundials, 53, 54  
 Surplus value, 54, 55  
 Synthetic images, 51, 111,  
     113  
  
 Taylor, L., 59, 99  
 Taylorism, 154, 176  
 Technical knowledge, 50,  
     110  
 Technological  
     disobedience, 156, 157  
 Technological  
     emancipation,  
     structural challenges  
     to, 149–160  
 Thales, 161  
 Theaetetus, 27, 28  
 Towne, H. R., 120  
 Tracking and Data Relay  
     Satellite (TDRS), 117  
 Train transportation, 55  
 Transcendent knowledge,  
     29  
 Trans-disciplinary  
     knowledge, 83  
 Truth, 10, 23, 42, 86, 106,  
     125, 161, 164–167  
 2-dimensional images, 20  
  
 UBER, 141  
 Unfreedom, 69, 137  
 Universal time, 55–57  
  
 Varian, H., 141, 143  
 Vishmidt, M., 153  
 Visual bias of literate, 49  
 Volta, A., 58  
  
 Wages for housework,  
     174  
 Whitehead, A. N., 85, 145  
 Wiener, N., 68, 162  
 Wisdom, 87  
 Wisdom–knowledge  
     distinction, 27  
 World Bank (WB), 130  
 WTO, 130