INDEX

A
accommodation 169, 181, 193
actor 36pp, 40p, 44, 46p, 49, 107p, 146
adaptation 18, 22, 31, 40, 146, 160
algorithm 4, 76, 110, 117p, 137pp, 165, 203
- problem solving 63, 68, 73, 138, 204, 222
- sociocultural 117, 129, 137pp
Artificial Intelligence 48, 113, 179
assimilation 169, 193
- cultural 161, 175, 197, 210
- evolutionary 221
- point 120p, 149
- strange 157
autonomy 29, 90, 92p, 99, 160, 169p, 214pp
- role 160, 170, 215p

B
BAM-nets 185pp, 192p
Boolean nets (BN) 14pp, 103, 109, 120, 122

C
cellular automata (CA) 14pp, 22, 109pp, 117, 119p, 149, 188, 220
citoyen 215p, 222
class struggle 54, 60p
coevolution 28pp, 205
cohesion 110p, 113, 117, 133
competence 6, 134, 145p, 166pp, 170, 172p, 191pp, 194pp, 204
concept
- first order 190
- second order 182p, 185, 188pp, 190, 195
- third order 182, 189
cultural transmission 26p
cultural transmission theories 177, 199
D

differentiation
- segmentary 108, 111
- stratificatory 108, 110p

- social 41, 51, 60, 72, 108, 112pp, 147, 149, 160, 172

diversity 217, 218

dynamics
- adaptive 134, 162, 202p
- first order 203pp, 209pp
- simple 23, 121pp, 133
- third order 24, 175p, 204pp, 209pp, 215pp, 221pp

E
equations
- differential 82, 139
- general 197p
- growth 171
- ontogenetic 172, 178, 196p
- recursive 171
- sociocultural 171p, 176, 178, 196
- sociocultural-ontogenetic 178

evolution
- cultural 2, 10, 25pp, 30, 33p, 39, 59, 78, 130, 150, 157, 164, 202
- general 207, 210p, 217
- ontogenetic 177, 191
- social 1p, 4p, 25, 31pp, 50, 104, 108pp, 117, 137, 149

evolutionary psychology 10 28p

F

feudalism
- military 91pp, 97, 100, 213

functional subsystem 99, 101, 215

G


graphonomy 77, 104p, 119, 162, 171, 176, 209

H

heterogeneity
- ontogenetic 197
- sociocultural 92, 213
homo oeconomicus 36p
homo sociologicus 36, 41
I
integration 25, 41, 89, 111, 113p, 115pp, 140, 222
K
Kohonen feature map (KM) 183, 185pp, 197p, 189, 191
M
materialism
- evolutionary 31, 37, 40, 48, 54
- historical 5, 31, 51, 54pp, 85
matrix
- cultural 144, 146, 150, 162, 170, 176
- interaction 142, 145, 170, 176
meta competence 166pp, 169p, 172p, 191pp
meta rule 22pp, 125, 128, 201, 203, 211, 219, 221
N
neural nets (NN) 23, 179p, 183pp, 198
O
ontogenesis 42, 137, 150, 166pp, 177p, 190pp, 198p, 202, 221p
P
paradigm 1, 8, 10, 12, 39, 51, 70pp, 77pp, 80pp, 103, 179, 223
parameter
- evolutionary 129, 164, 169, 191, 194, 202, 204, 211, 213
- meta 66, 125pp, 128p, 132, 134, 211, 221
- ordering 120pp, 125, 127, 129, 132p, 203, 211, 221
predictability 218pp,
R
revolution
- scientific 70p
role occupant 45pp, 49, 62, 145, 147, 176, 215p
role relations 150
S
SCA 117, 137pp, 140, 147pp, 158, 168, 178p, 195p, 198p, 208, 210, 214, 222p

socialization 37, 41pp, 44p, 119

sociobiology 10, 28p

T

theorem of inequality 118, 123pp, 132p, 149, 203
topology 18, 104p, 119

trajectory 20, 23, 30, 32, 66, 92, 100, 107, 117, 123, 132p, 138, 157p, 203p, 208, 210p, 221, 223

Turing machines 15p, 109, 120
An Essay Concerning Sociocultural Evolution
Theoretical Principles and Mathematical Models
Kluever, J.
2002, VII, 242 p., Hardcover
ISBN: 978-1-4020-0750-7