

Index

- Artificial intelligence, 99
 - use of, 102
- Automatization of process, 99, 100, 110, 177
- Banking sector, 71
 - banking risks, 72
 - classical banking operations on crediting, 72
 - credit organizations,
 - expansion of activities of, 72, 73
 - cognitive modeling,
 - methodology of, 74–75, 76–77
 - determining positive or negative influence, 76
 - dynamics of distribution of managing influences, 78
 - external impulse influence, 80
 - fuzzy cognitive approach, 73–74, 75–76
 - level of implementation of operational and credit risks, 81–82, 83
 - problems of management and decision making in, 73
 - process of crediting of individuals, 74–75
 - qualitative analysis of cognitive modeling, 76
 - risk management of POS-loaning process, 76–77, 78, 79
 - strategies of development of POS-loaning process, 79–80
 - verification of impulse stability, 79
 - formation and implementation of the effective strategy, 71–72
 - loans (POS loans), 72
 - risk of, 76–77
 - problem of decision making during risk management, 72–73, 75
- Cobb-Douglas production function, 89–92
- Computer decision-making, 87
 - cognitive approach, 89
 - decision maker (DM) in, 87
 - decision support system (DSS), 87, 95
 - features of creating, 88–89
 - mathematical software of generalized, 88
 - structural unit of, 89
 - environmental management system, 93, 94
 - environmental efficiency, 93
 - in Russia, 93
 - sustainable development indicators, 94–95
 - value of environmental performance, 93–94
 - fuzzy model of, 89

- integral evaluation of social and economic development, 92–93
 - principle of continual improvement, 93
 - regional labor markets, evaluation of, 89
 - of social and economic system analysis, 88
 - systemic approach, 88
- Energy efficiency, 151
- energy intensity of Russian and Ukrainian economies, 152–154
 - GRP energy, 154–155
 - long-term State programs, 154
 - sectorial context, 154–155
 - global trend, 152
 - energy intensity indicators, 1991 and 2017, 152, 154
 - tools for developing and evaluating
 - analysis of performance of regions' energy efficiency policy, 159, 160–165
 - information base, 156
 - literature review, 155–165
 - method of factor analysis of energy consumption dynamics, 156–158
 - method of Russian regions classification, 158, 159, 160
- External business entities, 15
- Global experience of decision making, 45–46
- business environment in North America, 49
 - causal connections, 45
 - criteria of successfulness, 47, 48
 - deep factor analysis, 45
 - marketing activity, 49
 - organizational culture, role of, 47
 - organizational structure, role of, 49
 - scientific works, 46
 - content analysis, 46–47
- Highly effective managerial decisions, 115, 123
- advantages, 119–120
 - algorithm, 117–118
 - issues of achieving, 116
 - mechanism of, 117, 119–120
 - regional models, 116
 - strategic foundations of, 124–125, 127
 - alternatives, 126–127
 - based on regional models, 127
 - marketing and collection of feedback, 126
 - resources necessary for implementation, 124, 126
 - works and publications, 124
 - top-priority criteria of optimality of, 119
 - works and publications, 116
 - content analysis of, 116
- Industry 4.0, 99
- Information provision of strategy and tactics
- documentation of resources, 170
 - importance, 169–170
- Innovative managerial technologies of decision making
- advantages, 66–67
 - application of, 67
 - conceptual model of, 67
 - content analysis of publications, 64, 65

- stages, 66
 - comparison of alternative variants of managerial decisions, 66
 - creation of electronic data base of managerial data, 65
 - determining opportunities of business systems, 65
 - digital marketing, 65
 - implementation of managerial decisions, 67
 - online data base of managerial data, 65–66
 - optimality of managerial decisions, 67
- Integrated Definition Language (IDEF), 88
- Intellectual technologies of support for managerial decisions, 100, 101, 177
 - advantages of, 102–103
 - determination of possibilities, 103
 - multi-task character, 102
 - scale effect during making of managerial decisions, 103
 - algorithm of complex, 103
 - application of, 100
 - artificial intelligence, 99
 - use of, 102
 - automatization of process, 99, 100
 - comparison of alternative variants of managerial decisions, 102
 - computer program, 101
 - determining possibilities of business system, 101–102
 - drawbacks of, 103–104
 - impossibility for isolated usage, 103–104
 - impossibility of digital form of parameters, 103
 - incomplete automatization, 103
 - security problem, 104
 - literature overview, 100
 - modeling (scenario analysis) of consequences of decision making, 102
 - reduction of risk of non-optimal decisions, 100
 - stage of implementation of the managerial decision, 102–103
- Internal business entities, 14–15
 - commercial block, 15
 - financial block, 15
 - production block, 15
 - service block, 15
- Leninist Communist Youth League Automobile Factory (AZLK), 28
- Managerial decisions
 - in Asia, 48–49
 - leading practices of, 177–178
 - in modern business systems, 109–110
 - non-optimality of, 38
 - at macro-economic level, 38–39
 - optimality of, 37
 - barriers to developing optimal decisions, 39, 40, 41–42
 - literature on, 38–39
 - managerial (administrative) expenditures of business systems, 40

- Russian practice of, 38, 39–40
- perspective directions of
 - improving, 110–113
 - stages, 112–113
 - studies and publications, 110
 - tools of, 112–113
- principles of corporate responsibility, 37–38
- rationality of, 37
- See also* Innovative managerial technologies of decision making; Intellectual technologies of support for managerial decisions; Mediator, role and functions of; Optimal managerial decisions; Optimization model for decision making; Process approach of managerial decisions
- Mediator, role and functions of
 - as auditor (controller), 59
 - as business consultant, 59
 - features and advantages of solving conflicts in socio-economic systems, 56
 - literature on, 56
 - as psychologist and pedagogue, 58–59
 - as state regulator, 57, 58
 - as top manager, 59
 - violation of participation and, 57–58
- Nizhny Novgorod industrial cluster, 169
- Optimal managerial decisions, 37, 45, 49
 - barriers to developing optimal decisions, 39, 40, 41–42
 - contradictions in, 55, 56
 - structural and logical scheme of mediative solution of, 59, 60
 - factors and results, 50
 - managerial (administrative) expenditures of business systems, 40
 - Russian practice of, 39–40
- Optimization model for decision making, 131, 140, 141
 - algorithm of implementation of, 149–150
 - hypothesis, 144
 - implementation of simulation modeling, 143–144
 - simulation modeling, 143
- competing companies, modeling, 137–138
- economic and mathematical model of, 146
- Heaviside step function, 146
- methodology of solving stochastic differential economic models, 146
- random influences, 146
- investment attractiveness, evaluation of
 - with constant investments, 147
- criterion of evaluation of investment project, 144, 145
- evaluation of risk, 145
- initial decision, 144
- with investments that grow by linear law, 148

- with investments that grow
 - by non-linear law, 148–149
- necessary characteristics, 145
- object of study, 144
- profitability index, 147, 148, 149
- strategies of additional investing, 144
- strategies of investing, 146–147
- value of profitability index, 145
- main approaches, 131–132
 - commercial approach, 131, 132–133
 - organizational approach, 133
 - practice-oriented approach, 132, 133
 - process approach, 131, 132
- personnel's effectiveness, modeling of evaluation of, 135–137, 139
- starting the sales of a new product, modeling of, 134, 135, 138
- Process approach of managerial decisions, 14–16
 - external business entities, 14–15
 - internal business entities, 14–15
 - managerial activities, 15
 - See also* Russian gas distribution company, business process of
- Production losses, model of development of methodology, 171–174
 - causes of losses, 171–172
 - flow of value creation, 172–173
 - form of semantic network, 172
 - instrumental value of
 - multilevel control, 175
 - situational analysis, 171
 - task of identifying losses, 171, 172–173
 - information capabilities and tools, 170–171
 - literature review, 170
- Rationality of managerial decisions, 37
- Russian car industry
 - competences, development of, 28
 - detailization of stages of managerial decisions, 29–30
 - management of production processes, 28
 - managerial decisions, 29, 30
 - analysis of parameters of production, 35
 - casting production, 33
 - complexity of business processes (Kbp), 31
 - effectiveness, 31
 - manageability (Kres), calculation, 31
 - optimal managerial decisions, development of, 30
 - process (Kpr), calculation, 31
 - resource capacity (k_p), calculation, 31
 - structural model of separate technological process, 33
 - sum of indicators of business processes, 32
 - technological preparation of production, 34
 - totality of indicators, calculation of, 31–32, 34

- variants of solution, 30
- operative decisions, 29
- organizational structures,
 - improvement of, 28
- problem solving method, 28
- production system,
 - 28–29
 - processing of material flows, 29
- strategic development, scenarios of, 27, 28
- target principle of
 - management, 29
 - determination and evaluation of situations, 29
 - forecasting of objective conditions, 29
 - goal setting stage, 29, 30
- Russian gas distribution company, business process of, 14, 15
- Balanced Scorecard (BSC),
 - concept of, 25
- business processes,
 - 15–16
- economic effectiveness, 18
- effectiveness of process, 16
- efficiency of decision making, 16
- evaluation of effectiveness of process, 16–21
 - calculation of coefficient of efficiency of process, 24
 - customer satisfaction, 21
 - indicator of relative effectiveness, 20–21
 - indicators of effectiveness of sub-process, 21
 - level of achievement, 16–21
 - level of implementation, 18–20
 - methodology of, 16–21
 - Nintime calculation, 23
 - observation of
 - methodological rules, 21
 - provision of execution of processes, 15–16
 - quality of produced technical conditions, 23
 - quantitative criteria, 20
 - rule of calculation of MCNGH, 23
 - speed of preparation of documents, 21, 23
 - stage of calculation of maximum consumption, 23
 - timeliness of transfer of information, 23
 - types and characteristic of indicators of effectiveness, 19–20, 22
- order of technological connection, 16
- peculiarities of decision making, 16
- Performance Prism, concept of, 25
- time of execution of stages of process, 16, 18
- Total Performance Scorecard,
 - concept of, 25
- Russian practice of managerial decisions, 5, 6
 - advantages, 113
 - conceptual model, 7
 - advantages of, 8–9
 - alternatives to solving sub-problems, 8
 - analysis of corporate reports, 7–8

- decision making, 8
- disadvantages of, 9
- formulation of determined problem, 8
- reports, 8
- solving a separate sub-problem, 8
- solving debatable situations or uncertainty, 8
- content analysis
 - peculiarities, 6, 7
 - scientific literature, drawback, 7
- transformation of, 13
- transparency of relations in
 - business processes, 13
 - works of modern scholars, 6
- Russia's economic system, 5–6
- Sustainable development, 64
 - in Russia, 64
- Technological connection, 16, 17
- Volatility in business system and business environment, 115