

INDEX

- Abduction, 44–45
- Argumentation, 81–82, 104
 - and factual knowledge, 112
 - verbal, 80–81
- Artefacts, 71–73
 - praxis, 72
 - in social systems, 75
- Awareness
 - focal, 13, 20–21, 30, 52–53
 - subsidiary, 13, 20–21, 30, 52–53
 - types of, 52–53
- ‘Basic rules’, 35–37, 90
 - of tacit knowledge, 64
- ‘Behavioural cloning’, 69–70
- Caring function, 39–40
- Carpenter-hammer-nail system, 54
- ‘Category error’, 38–39
- ‘Clinical gaze’, 8–10, 40, 72
- Collective processes, 97–98
- Communication
 - faces of, 102
 - process, 100–103
 - in tacit knowledge, 23
- Communicative self-reference, 103
- ‘Con-cepts’, 16
- Conceptual nuance, 46
- Context marker learning, 48
- Contextual familiarity, 22–23, 66, 68
- Contextual learning, 48
- ‘Contextual structure’ of tacit knowledge, 6–7, 19
- Cooperating system, 65
- Cooperation, 64–65
- Degrees of tacit, 50–51
- Democratic approaches, 80–81
- Democratic decision-making approaches, 80–81
- Developing tacit knowledge
 - and abduction, 44–45
 - alternation between focal and subsidiary awareness, 55–57
 - basis of, 41–42
 - and conceptual nuance, 46
 - degrees of tacit, 50–51
 - dependent on tacit methods, 45–46
 - and differences, 41
 - elements in, 31–33
 - experience-based systems, 54–55
 - explicit knowledge, 50–51
 - from focal awareness to subsidiary awareness, 35–36
 - hierarchical organization of, 42–43
 - and interaction in groups, 37–38
 - ‘learning by doing’, 32–33
 - ‘learning by experimenting’, 34–35
 - ‘learning by interacting’, 34
 - ‘learning by using’, 33–35
 - learning rules, 36–37
 - learning through processes, 46–47
 - ‘learning to see’ process, 40
 - from performing, 58–59
 - personal, 38–39
 - processes, 31
 - reflection, 47–48
 - ‘repeats’ and patterns, 43

- and rules-based systems, 39–40
- structure of tacit knowledge, 30–31
- types of awareness, 52–53
- understanding, 48–50
- ‘Discussion’ based on
 - argumentation, 107–108, 113
- ‘Double’ interpretation process, 102
- ‘Dwelling in them’, 6, 17
- Electron-beam techniques, 9
- ‘Electronic noses’, 69–70
- ‘Electronic taste buds’, 69–70
- Expectations, 99–100
- Experience-based systems, 54–55
- Experiential knowledge, 58–59
- ‘Explanatory principles’, 85
- Explicit knowledge, 2–3, 15–16
 - and degrees of tacit, 50–51
 - and tacit knowledge, 6, 21–22
- External and internal relationships, 107–109
- Facial expression, 14
- Familiarity knowledge and skills, 97–98
- Feedback control system, 31
- Focal awareness, 13, 20–21, 30, 52–53
 - alternation between subsidiary awareness and, 55–57
 - to subsidiary awareness, 35–36
- Former approach, 65
- ‘Functional structure’ of tacit knowledge, 6–7, 19
- Genuine relationship, 108
- ‘Global tacit knowledge’, 10–11
- Goal structure, 69–71
- ‘Good argument’, 81–82, 113
- Good judgement, 93–95
- Hidden knowledge, 114–116
- Hierarchical organization of tacit knowledge, 42–43
- Hierarchical system, 109
- Holistic causal understanding, 12–14
- Imitation, 87, 91, 93
- Implicit learning, 45
- Individual processes, 97–98
- Integration of tacit knowledge, 97, 99
 - collective knowledge processes, 98–99
 - communication, 100–103
 - constituent elements of dialogue, 109–111
 - dialogue develops interaction competence, 103–105
 - expectations, 99–100
 - external and internal relationships, 107–109
 - goal achievement, 119–120
 - hidden knowledge, 114–115
 - metaphors, analogies, images and examples, 106–107
 - trust as prerequisite for dialogue, 120
 - types of communication, 111–114
 - typologization of knowledge, 98
 - ways of thinking, 115, 117–118
 - from win-lose to win-win processes, 120–122
- Interaction
 - activity, 18
 - dialogue develops Interaction competence, 103–105
 - in groups, 37–38
- Interpretation, 88–89
- Intuition, 14
- ‘Knowledge in action’, 1
- Knowledge management
 - Polanyi’s theory of tacit integration, 2
 - tacit knowledge, 1–3
 - theoretical and practical knowledge, 1

- 'Learning before doing' process, 79–81
- 'Learning by doing' process, 14, 30, 32–33
- 'Learning by experimenting' process, 34–35
- 'Learning by interacting' process, 34, 64
- 'Learning by using' process, 12, 33, 35
- Learning process, 5–6, 22, 32, 46–47, 99–100
 - learning rules, 36–37
 - levels of, 49
- 'Learning to see' process, 40
- 'Local tacit knowledge', 10–11
- Master–apprentice relationship, 64–66
- Master–novice relationship, 64
- Mentefacts, 71–73
 - praxis, 72
 - in social systems, 75
- 'Metaphorical error', 38–39
- Motor skills, 7–8, 33
- Muscular system, 31
- Non-conscious cognitive activity, 82
- Non-objective knowledge, 1–2
- Non-verbal communication systems, 102
- Nurse–patient relationship, 38–39
- Objective knowledge, 1–2
- Observation, 87–88
- One-to-one relationship, 101
- Organizational knowledge, 97–98
- Ostensive definition, 5, 21–22
- 'Pattern repeats', 43
- 'Per-cepts', 16, 18
- Perception, 67–68
- Performance system, 31
- Personal Knowledge*, 63
- Perspective learning, 48
- 'Phenomenal structure' of tacit knowledge, 6–7, 19
- Phenomenological closeness, 52–53
- 'Photographing', 21
- Physical activities, 7–8, 33
- Polanyi's theory of tacit integration, 2
- Practical knowledge, 1
- 'Practised gaze', 40
- Pre-understanding as necessary basis for knowledge processes, 73–74
- Problem-defining knowledge, 2–3
- Problem-solving knowledge, 2–3
- 'Pull-back' technique, 68–69
- Reflection activity, 18, 67–68
- 'Repeats' and patterns, 43
- Routines, 68–69
- Rules of thumb, 11–12
- Rules-based systems, 39–40
- Scientific knowledge, 1–2
- Self-reference problem, 103
- Sender-message-channel-receiver model (SMCR model), 101
- Sensory system, 31
- Social mechanisms, 109
- Social systems, artefacts and mentefacts in, 75
- Specific tacit knowledge, 10
- 'Step-back' technique, 68–69
- Strategic tacit knowledge, 10
- Structure of tacit knowledge, 30–31
- Subsidiary awareness, 13, 20–21, 30, 52–53, 55, 57
 - alternation between focal awareness and, 55–57
 - from focal awareness to, 35–36
- Subsidiary focus of attention, 50
- 'Sudden shift', 36
- Syringes, 75
- System dynamics, 10–11
- Tacit knowing, 8–9, 16–17, 57
- Tacit knowledge, 1–3

- building blocks of, 17–18
- communication in, 23
- contextual familiarity, 22–23
- development, transfer and integration of, 19
- development of, 8–11
- explicit knowledge and, 6, 21–22
- focal awareness, 20–21
- holistic causal understanding, 12–14
- intuition, 14
- objective in, 15–17
- personal, 38–39
- ‘phenomenal structure’, 6–7
- Polanyi’s concept of, 5
- processes, 8–9
- rules of thumb, 11–12
- subsidiary awareness, 20–21
- tacit space, 24–25
- types of, 11–15
- typology of, 11
- understanding patterns, 14–15
- Tacit methods, 45–46
- Tacit space, 24–25
- ‘Tertiary awareness’, 52–53
- Transfer of tacit knowledge, 63
 - artefacts and mentefacts, 71, 73, 75
 - basic rules, 90
 - conserving and stabilizing elements of, 75–78
 - contextual familiarity, 66–68
 - democratic approaches, 80–81
 - discipline, imitation and improvements, 91
 - explanation of situation, 83–85
 - genuine cooperation in, 66
 - goal structure, 69–71
 - ‘good argument’, 81–82
 - good judgement, 93–95
 - imitation, 91–93
 - influence actions, 78–79
 - learning before doing, 79–80
 - master–apprentice relationship, 64–66
 - mechanisms, 87–89
 - non-conscious cognitive activity, 82
 - pre-understanding, 73–74
 - routines, 68–69
 - transferring or ‘translating’ tacit knowledge, 86
- Trust, 120
 - as prerequisite for dialogue, 121
- Verbal argumentation, 80–81
- Vivaldi’s ‘The Four Seasons’, 36–37
- Win-lose to win-win processes, 120–122
- Win-win processes, 114, 120, 122