

1. Record Nr.	UNINA9910637728303321
Titolo	Brain, decision making and mental health / / Nima Rezaei, editor
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2023] ©2023
ISBN	9783031159596 9783031159589
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (725 pages)
Collana	Integrated science ; ; Volume 12
Disciplina	612.82
Soggetti	Brain Decision making Mental health Cervell Presa de decisions Salut mental Pensament crític Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction on Brain, Decision-Making, and Mental Health -- 2. Relational Thinking and The Cultural Conditionality of Human Understanding -- 3. Science and The Spectrum of Critical Thinking -- 4. Rhetoric and the Stases: A Universal Critical Thinking Problem-Solving Framework for the Sciences and Arts -- 5. Conceptual Development and Change: The Role of Echoing and Contrast as Cognitive Operations -- 6. Critical Thinking Across the Sciences -- 7. Models of Medical Reasoning -- 8. The “Irrational” within Rational Thinking: Proofs from Medical Sciences and the Arts -- 9. Shaping Clinical Reasoning -- 10. Critical Thinking in Nursing -- 11. Fostering Critical Thinking Among Pre-Service Teachers Through A Multiple Representation-Based Collaborative Pedagogical Approach -- 12. COVID-19: A Context to Promote Critical Thinking and Argumentation in Secondary and University Students -- 13. Thinking, Feeling, And

Moving: Competition for Brain Resources in Health and Disease -- 14. Hypothesized Mechanisms of Cognitive Impairment During High-Intensity Acute Exercise -- 15. The Role of Cortisol in Cognitive Emotion Regulation Failure -- 16. Incorporating Mindfulness Practice for Better Performance in Work and Daily Life -- 17. Increasing Well-Being and Mental Health through Cutting-Edge Technology and Artificial Intelligence -- 18. Thought Content and Thinking Processes in Psychotherapy: Cognitive Versus Metacognitive Approaches -- 19. Can the Phylogeny of Compassion Focused Therapy and The Ontogeny of Transactional Analysis Go Beyond Dual-Process Theories and Propose Multiple Modes of Thinking? -- 20. Decision-Making in Integrated Contexts: Epistemological, Methodological and Cognitive Choices-- Towards New Requirements in Psychological Research? -- 21. Modelling Social Action: From Biological to Social (Re)Constructions Enabling, Constraining, and Motivating Social Decision-Making -- 22. Decision-Making Styles and Decision Outcomes -- 23. Thinking about Decisions: How Human Variability Influences Decision-Making -- 24. Searching for Criteria for A Thinking Machine -- 25. The Irreducible Immateriality of Meaning and Its Crucial Role For Artificial, Human, and (Maybe) Non-Human Intelligence -- 26. Computational Model of The Mind: How to Think About Complex Systems in Nature -- 27. The Brain as A Vision and Program: From "Embodiment" to "Embedment" -- 28. Image, Imagination, Magic, Imaginary: Contemporary Experience and Cognition -- 29. Neurodesign: The Biology, Psychology, and Engineering of Creative Thinking and Innovation -- 30. Intellectual Mechanisms of Solving of Problematic Situations with a High Degree of Uncertainty -- 31. Art in The Twilight of Consciousness -- 32. Brain, Decision-Making, and Mental Health 2050.

Sommario/riassunto

Brain, Decision Making, and Mental Health acknowledges that thinking is not a constant phenomenon but varies considerably across cultures. Critical thinking is particularly important in bridging thinking divisions and its applicability across sciences, particularly medical sciences. We see critical thinking as educable and the arts as means to achieve this purpose. We address the multidimensional relationship between thinking and health and related mechanisms. Thinking mainly affects emotion regulation and executive function; in other words, both mental and physical health are related as a function of thoughts. Considering the thinkingfeelingemotion regulation/executive function pathway, it would be reasonable to propose thinking capacitiesbased interventions to impact emotion regulation and executive function, such as mindfulness and psychotherapy. We review decision-making taking place in integrated and social contexts and discuss the decision-making styles-decision outcomes relation. Finally, artificial thinking and intelligence prepare us for decision-making outside the human mind.
