#### RITUAL ECOLOGY

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#### 1 Background

- In a classical view of mind, the **cognitive process** consists of interactions among unobservable internal representations and **Cognitive architecture** is a scheme providing merely functional characterization of cognitive task but not a definition of its implementation (Hutchins, 2010).
- Cognitive task can be realized in physically, organizationally and ontologically diverse forms. Active engagement of the body with elements of working environment is a form of thinking. By tracing these interactions we can study much of the thinking setup directly.

In his *Biocultural Theory of Religion*, Geertz (2010) recognizes extension and situatedness as two critical factors of religious cognition. Likewise, Bulbulia (2010) concerned with cooperation in ancestral communities addresses religious culture as a system of cues that automate behavior (see also Sosis (2017), Alcorta and Sosis (2005).

# **Ecological Perspective Key Proposals:**

- A system approach to description and explanation of rituals in their typical contexts as embodied, embedded practices.
- A search for the emergent patterns of activity that come and dominate the constitutive components. Appreciating the coupling living systems are not separable from their abiotic components. In the ritual enaction particular states of mind, patterns of song and dance, aromas, fires or sacrifices, are necessary to accomplish the effects. Causality is implicit to complex adaptive systems and characteristic by continuous reciprocal causation. Agency refers to the ability to determine action or effect an outcome irrespective of the ontological status of its proponent.

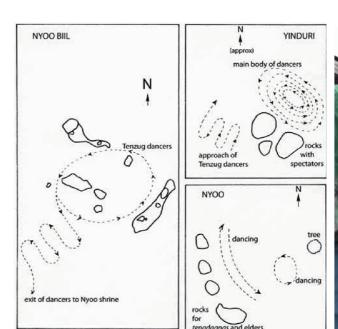
McGraw, J. J., & Krátký, J. (2017). Ritual Ecology. Journal of Material Culture.

## Constitutive role of materiality in a ritual ecology. Illustration 1.

Constraining and enabling role of materiality in the emergence of ritualized behavior.

In a classical conception of ritual, Bell (1992) suggests that ritualization temporally structures a space-time environment through a series of physical movements. Ritual Ecology approach proposes to reverse a causal direction and study ritualization as an emergent effect.

#### (A) Ritualization in its cultural context: A Case of Tallensi Ritual dance



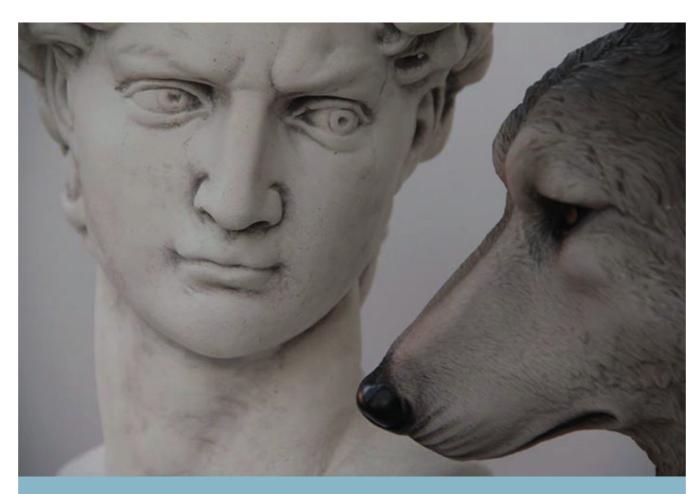


Stone arrangements in the shrine for rather than representing static markers serve to structure movements of a dance (Insoll, 2012). In such a causal scheme material elements of culturally organized environment act as defining and constraining factor shaping limbs and body towards ritualized forms of movements.

# Constitutive role of materiality in a ritual ecology. Illustration 1 The critical role of dimensionality in the prosocial effect of agency cue in a naturalistic setting

- Routine sensing is a critical factor behind the effect of an artificial agency cue in a naturalistic setting. Routine sensing requires agent's active presence with a high degree of immersion. Presence as a phenomenon of normal awareness that requires direct attention is based on the interaction between sensory stimulation and environmental factors providing adequate feedback to the agent. In a naturalistic setting, 2-dimensional flat image lends itself to instant decoding whereas 3-dimensional object is less often sensed as a representation of a target domain; phenomenally object becomes target domain itself thus elicits the desired prosocial effect.
- Contrasting to the laboratory experiments conducting experiments in a naturalistic setting demands naturalistic experimental stimuli.

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#### GENERAL REFERENCES

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### (B) Ritual micro-Ecology in the lab: A case of spontaneous Ritualized behavior



Material artifact provided a very possibility to isolate and derive those aspects of cultural rituals that were deemed as culturally invariant – ritualistic motor behaviors – and brought these elements into life in the laboratory setting.

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