Review of: "Rationality and Scientific Thinking as Foundations for Leadership in the World of Work"

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Potential competing interests: No potential competing interests to declare.

Metacognition, as I understand the word simply, is '**the process of increasing awareness and thinking about one's own thinking and learning**." A new way of learning and changing how we think about learning is very important for the future but the authors seem to imply this can be solved by a deeper level of cognition, but still purely rational. In my view this approach solves rational problems but does not consider emotional or value-based issues and decision-making which themselves involve different brain processes than rational thinking. Also, I would suggest that the problems solved only by rational or deeper rational analysis and thinking (such as pattern recognition) are complicated rather than complex problems (see the work of David Snowden amongst others - https://thecynefin.co/about-us/about-cynefin-framework/). To keep ahead of AI, we as humans need to move away from only Newtonian, linear thinking, and embrace quantum, complex adaptive system (CAS) thinking.

For example, nature is a complex adaptive system, itself made up of many complex adaptive systems. CAS's have simple rules and one of them is that in essence it is leaderless, or perhaps alternatively defined as "self-organising", or "everyone's a leader". This questions the whole concept of the effectiveness of hierarchical leadership in an increasingly complex world.

To conclude, I do believe that "Rationality and Scientific Thinking are (sic) Foundations for Leadership in the World of Work", but they are not the only foundations necessary. We also need to include intuition, instinct, insights and ethical philosophy, all of which are beyond just cognition or even metacognition and require both emotional and spiritual intelligence.