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**Self-similarity and the human explosion: T-patterns and
T-strings from protein to human hives**

Single celled organisms are sometimes called “Cell Cities” due to the many structural analogies with human cities, but as cities are those of many humans a cell is better called Protein City or mass-society (> approx. 104 individuals).

While multicellular organisms (bodies) can be seen as mass-societies of cells (cell cities?), mass-societies of multicellular organisms are rare, found only in insects (since more than 100 million years) and in modern humans since only some thousands of years. In a biological eye blink, human population sizes increasing exponentially and human knowledge and technology even faster with humans suddenly becoming by far the most powerful and capable species ever, an explosion reminiscent of the Cambrian Explosion.

It seems striking that this explosion occurs almost immediately after the organisation of human mass-societies reached unique self-similarity (not found in insects) with those of proteins. The unique principle seems to be the use of giant T-patterned physical strings, T-strings, external to the (human or protein) individuals deciding their specializations. Here the T-pattern and the T-string structures are defined and illustrated by temporal T-patterns detected (with THEMETM) in human and neuronal temporal interactions, and T-strings detected in proteins and text.

Biography

Magnus S. Magnusson, PhD, Emeritus Research Professor, founder, and director of the Human Behavior Laboratory (hbl.hi.is), School of Health Sciences, University of Iceland. Author of the T-system, detection algorithms and software THEMETM (PatternVision.com), initially focusing on real-time organization of behavior. Co-directed of two-year project “DNA analysis with Theme”. Keynotes in biology, neuroscience, mathematics, science of religion, proteomics, A.I., robotics and nanoscience. Associate Professor and Deputy Director 1983-1988 in the Museum of Mankind of the French National Museum of Natural History, Paris. Repeatedly, invited Professor at the University of Paris V, VIII & XIII. Now works in formal collaboration between 39 European and American universities initiated 1995 at the University Rene Descartes of Paris V, Sorbonne, based on “Magnusson’s analytical model.



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