

VLADIMIR LEKOVSKI

KNOWLEDGE, digital architecture, controlled patterns

Abstract

Architects seeking new forms and structural systems from times refer to nature. At first coping them following only their basic logic. Digital technology enabled understanding more complex systems generating new skills and indicating new type of architectural and net knowledge. All natural structural systems have same design logic, a design enabling endless patterns, a controlled patterns created with one basic element, the golden section. These concept of golden section opens new horizons in various scientific disciplines and networking processes.

In the book ELEMENT, Cecil Balmond, one of the leading scientists interested in genesis of form, using numbers, music and mathematics, describes the landscape as mathematical order:

" The thing is what do I look at? On the surface, colors and the shape that greet me; but if i keep steering another picture enters, blurred, losing detail. Only certain features remain which give character, like a certain cast to the face or gleam in the eye. If i look further the focus leads to more loss, as if the retinal image cannot hold. Surprisingly, other shapes emerge. An inner eye engages and the spirit behind the body takes over. The snapshot is the first gateway; then a sketch takes me through the second, intent on character. Beyond these the deeper feature is caught only in a diagram, more a concept of the thing than the actuality. But through this third gateway the minds eye switches on - in abstract readings. Something else is resurrected, stirring up emotions and memories. When word and line cease, visceral feelings make the forms beyond the shapes, hallucinatory, and poetic."

I am going to elaborate conclusions about knowledge, network and digital architecture related to controlled patterns and visual methodology into science today.

key words: knowledge, digital architecture, technology,