



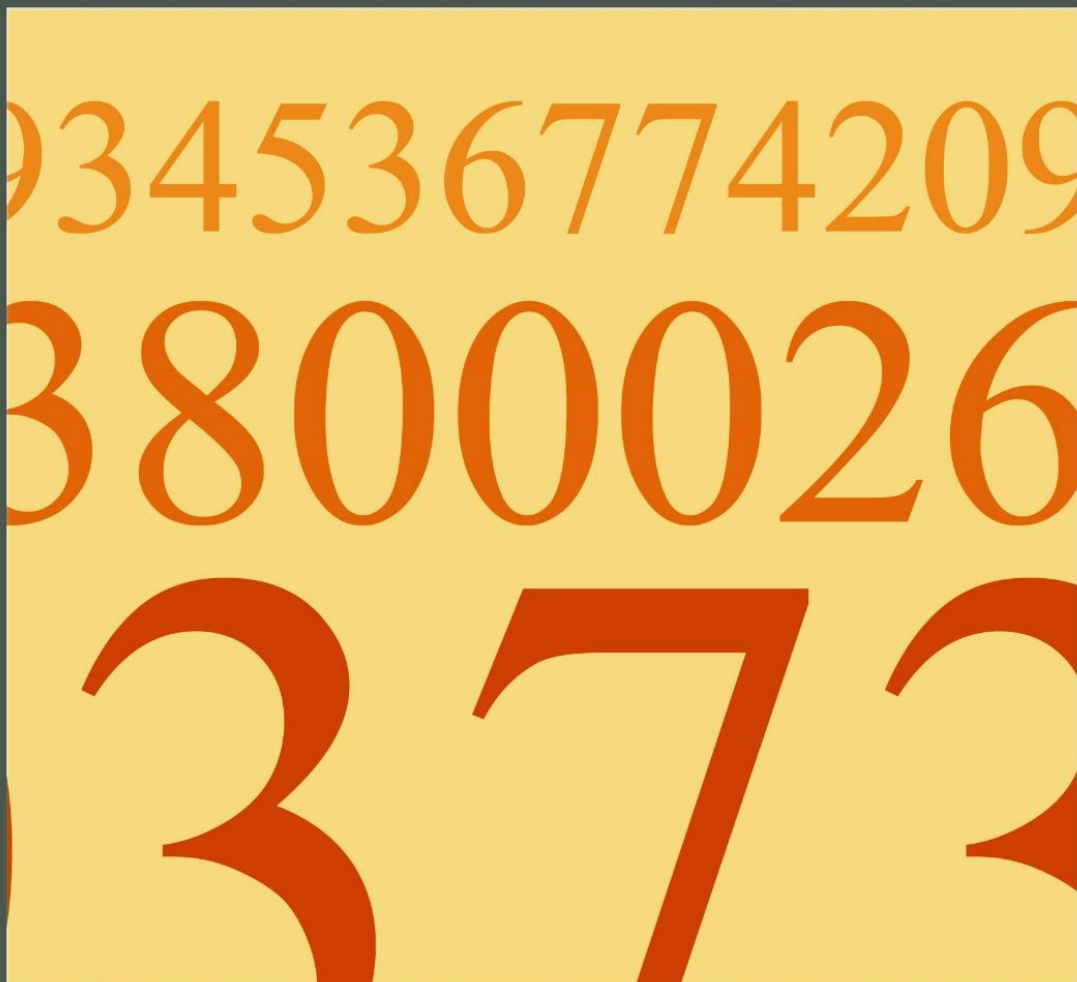
ISTITUTO INTERNAZIONALE STUDI AVANZATI DI
SCIENZE DELLA RAPPRESENTAZIONE DELLO SPAZIO
Geometria proiettiva, Geometria descrittiva, Rilevamento, Fotogrammetria

INTERNATIONAL INSTITUTE FOR ADVANCED STUDIES OF
SPACE REPRESENTATION SCIENCES
Projective geometry, Descriptive geometry, Survey Photogrammetry

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NUMBERS DESCRIBE THE FOURTH REAL DIMENSION
OF THE SPACETIME



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The theory of the dimensions (1) describes the existence of nine real dimensions of the spacetime in which we live.

In particular, it should be remembered that the demonstration of the existence of the fourth dimension was already implicit a century ago in the theory of general relativity.

The numbers, which reflect the existence of the plurality of the known bodies, from ancient times provide for the possibility of an unlimited sequence of digits. Is this sequence compatible with a three-dimensional space or does it imply the existence of other dimensions?

To answer the question about the compatibility of numbers with a three-dimensional spacetime and correctly describe the relationship between numbers and the real dimensions of the spacetime, it is appropriate to recall the simple, fundamental theoretical development that leads to knowledge of the higher dimensions, in particular the fourth.

On bases of the *principle of relativity of the spacetime*, it is therefore shown that numbers in their unlimited extension have always testified to the existence of the fourth dimension.