



INFORMATION PROCESSING WILL
CONTINUE TO INCREASE IN SPEED
AND POWER BECAUSE OF:

EVOLUTION
NANO-TECHNOLOGY
BIO-TECHNOLOGY
ROBOTICS
ARTIFICIAL INTELLIGENCE
NETWORKS
THE INTERNET



2035

2030

2025

2020

2015

2010

2005

2030 NANO-BOTS REACH OUR BRAINS—FULL VIRTUAL REALITY

2020 COMPUTER CHIPS = PROCESSING POWER OF THE BRAIN

2000 HUMAN GENOME PROJECT
COMPLETED

1991 BORNHOLM DECLARATIONS WWW

1973 FIRST MICROPROCESSOR

2000 HUMAN GENOME PROJECT
COMPLETED

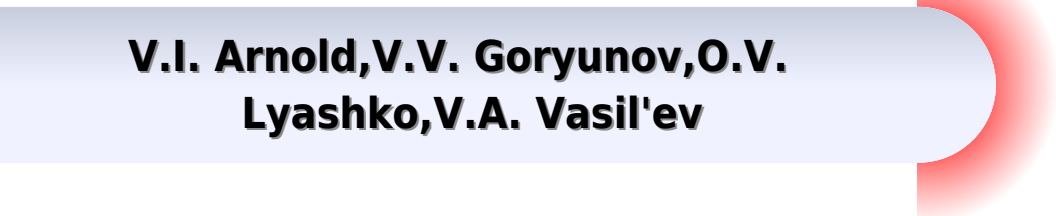
THE BIG BANG

WHAT IS THE SINGULARITY?

The Singularity is the coming moment when technology becomes intelligent and capable of its own reproduction. The Singularity will be different than any previous time as genetics, nano-tech and robotics meld together with humanity, changing the future in unknown and unexpected ways.

Singularity Theory

**V.I. Arnold, V.V. Goryunov, O.V.
Lyashko, V.A. Vasil'ev**



Singularity Theory:

Singularity Theory and Gravitational Lensing Arlie O. Petters, Harold Levine, Joachim Wambsganss, 2012-12-06
Astronomers do not do experiments They observe the universe primarily through detecting light emitted by stars and other luminous objects Since this light must travel through space to reach us variations in the metric of space affects the appearance of astronomical objects These variations lead to dramatic changes in the shape and brightness of astronomical sources Because these variations are sensitive to mass rather than to light observations of gravitational lensing enable astronomers to probe the mass distribution of the universe With gravitational lensing observations astronomers are addressing many of the most important scientific questions in astronomy and physics What is the universe made of Most of the energy and mass in the universe is not in the form of luminous objects Stars account for less than 1 % of the energy density of the universe Perhaps as much as another 3% of the energy density of the universe is in the form of warm gas that fills the space between galaxies The remaining 96% of the energy density is in some yet unidentified form Roughly one third of this energy density of the universe is dark matter matter that clusters gravitationally but does not emit light Most cosmologists suspect that this dark matter is composed of weakly interacting subatomic particles However most of the energy density of the universe appears to be in an even stranger form energy associated with empty space

Singularity Theory Denis Cheniot, Jean-Paul Brasselet, 2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

Singularity Theory Bill Bruce, D. Mond, 1999-06-03 An up to date survey of research in singularity theory

New Developments in Singularity Theory Dirk Siersma, Charles Wall, V. Zakalyukin, 2001-06-30

Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps

Singularity Theory I V.I. Arnold, V.V. Goryunov, O.V. Lyashko, V.A. Vasil'ev, 1998-03-17 This is a compact guide to the principles and main applications of Singularity Theory by one of the world's top research groups It includes a number of new results as well as a carefully prepared and extensive bibliography that makes it easy to find the necessary details It's ideal for any mathematician or

physicist interested in modern mathematical analysis *Topics in Singularity Theory* Alekseĭ Nikolaevich Khovanskii, 1997

Singularity Theory I V.I. Arnold, V.V. Goryunov, O.V. Lyashko, V.A. Vasil'ev, 2012-12-06 From the reviews My general impression is of a particularly nice book with a well balanced bibliography recommended Mededelingen van Het Wiskundig Genootschap 1995 The authors offer here an up to date guide to the topic and its main applications including a number of new results It is very convenient for the reader a carefully prepared and extensive bibliography makes it easy to find the necessary details when needed The books EMS 6 and EMS 39 describe a lot of interesting topics Both volumes are a very valuable addition to the library of any mathematician or physicist interested in modern mathematical analysis European Mathematical Society Newsletter 1994 **Differential Geometry From A Singularity Theory Viewpoint** Shyuichi

Izumiya, Maria Del Carmen Romero Fuster, Maria Aparecida Soares Ruas, Farid Tari, 2015-10-29 Differential Geometry from a Singularity Theory Viewpoint provides a new look at the fascinating and classical subject of the differential geometry of surfaces in Euclidean spaces The book uses singularity theory to capture some key geometric features of surfaces It describes the theory of contact and its link with the theory of caustics and wavefronts It then uses the powerful techniques of these theories to deduce geometric information about surfaces embedded in 3 4 and 5 dimensional Euclidean spaces The book also includes recent work of the authors and their collaborators on the geometry of sub manifolds in Minkowski spaces

Singularity Theory and Some Problems of Functional Analysis Semen Grigor'evich Gindikin, 1992 The emergence of singularity theory marks the return of mathematics to the study of the simplest analytical objects functions graphs curves surfaces The modern singularity theory for smooth mappings which is currently undergoing intensive developments can be thought of as a crossroad where the most abstract topics such as algebraic and differential geometry and topology complex analysis invariant theory and Lie group theory meet the most applied topics such as dynamical systems mathematical physics geometrical optics mathematical economics and control theory The papers in this volume include reviews of established areas as well as presentations of recent results in singularity theory The authors have paid special attention to examples and discussion of results rather than burying the ideas in formalism notation and technical details The aim is to introduce all mathematicians as well as physicists engineers and other consumers of singularity theory to the world of ideas and methods in this burgeoning area **New Developments in Singularity Theory** Dirk Wiersma, C.T.C. Wall, V. Zakalyukin, 2012-12-06

Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps

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