

1st Session

T610816

Tuesday, Aug. 15, 1961

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京都大学基礎物理学研究所 湯川記念館史料室

Dr. Goto, Man and Automaton

Programmer is not a computer
computer translation from Japanese to English
ordering

→ automatic programming

文字の順序

14x109

人間の記憶の限界
コンピュータの記憶能力
人間の思考の順序
コンピュータの動作の順序
人間の行動の順序
コンピュータの動作の順序

(参考図表)

Psychic phenomena

i) 超常現象の存在 (Fore-sight)

三浦先生の研究
1950年

ii) telepathy

(in physics)

accidental coincidence

chance

causality

(regularity
randomness
variables)

KANAKAWA HOTEL 1873-1981 NIKKO

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二種類の予見, 予知

i) 科学的, 理論的予見,

ii) 法則的予見の予見
directive imagination

予見と予知の区別

心算
天才

receiver ← guiding spirit
inspiration

{ Association of ideas
Pattern Recognition
大脳回路の二重構造



I am going to talk alternately in English and Japanese, although what I say in English may not exactly be the same as what I say in Japanese.

When I get into trouble to ~~subtle point~~ express subtle points in English, Dr. Ohnori I expect will help me.

I have prepared my manuscript in English, but it is in a very incomplete form. So I would like to try to speak as freely as possible, not informally adhering to what I have written here.



想像力

Einbildungskraft

imagination

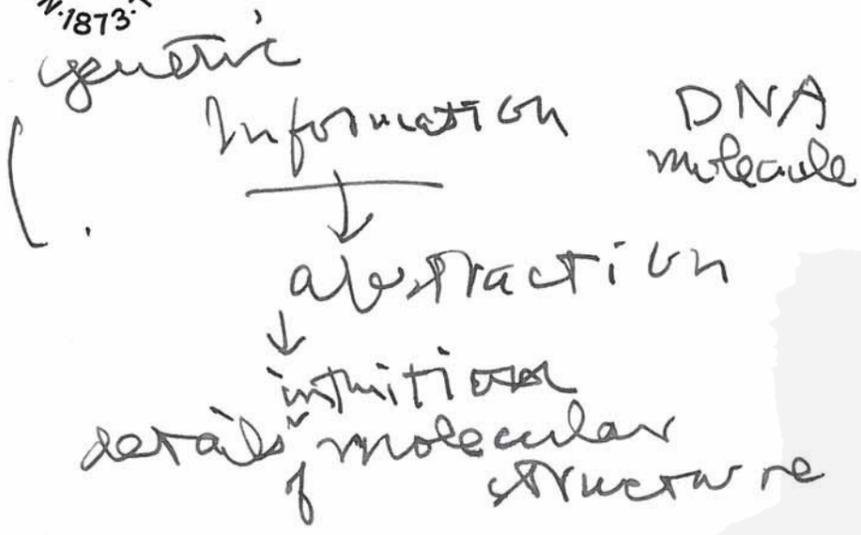
What is to be abstracted
 For what purpose, By what
 motivation, we abstract?
 What is the meaning of abstract construct?
 In the mind of a scientist
 who has the ability of
 creative thinking, there is
 a clear image is formed,
 even when he writes he
 writes and talks in
 abstract terms or symbols.

(generalization
 simplification

overall view of known and
 unknown
 of abstraction plus
 intuition



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正統

1. 科学の正統

→ logic consistency
which leads to

2. chemistry,
elements simplicity

unified picture
of matter

(Space-Time
matter

数学の正統
abstract → geometrical
algebraic



Aug. 16, Spenson

Weaver, changing unity of Science.

simplicity { essential ?
superficial

disorganized complexity
organized complexity

Natural history of branch of science
complexity



Natural history of science as a whole
information → less probable
→ improbable phenomena

physics ↔ chemistry 1920's
physics ↔ biology 1950 ± 20

Human quality of science
University: new need,
flexible

NIKKO KANAYA HOTEL
1873

Aug. 17

Langer

undercurrent of feeling

Confusion

emotional instability

philosophy: systematic study
of meaning

symbolic expression of feeling

style

gesture

Art

Concentration of power

universal ~~culture~~ culture which
has its root in the
mind of everyone
on the earth.