

A. M. TURING.

ON COMPUTABLE NUMBERS, WITH AN  
APPLICATION TO THE ENTSCHEIDUNGS-  
PROBLEM.

With Corrections  
by A M T on pp 259-261.

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**DOTTORATO IN  
STORIA DELLA SCIENZA**



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**UNIVERSITÀ  
DEGLI STUDI DI BARI  
ALDO MORO**

**CENTRO INTERUNIVERSITARIO DI RICERCA  
SEMINARIO DI STORIA DELLA SCIENZA**

**Alan Mathison Turing:  
l'indecidibilità della vita**

Bari, 5 Ottobre 2012  
Salone degli Affreschi  
Palazzo Ateneo

$I(x, y)$  is to be interpreted as "in the complete configuration  $x$  the square  $y$  is scanned".

$K_{qm}(x)$  is to be interpreted as "in the complete configuration  $x$  the square  $q_m$  is scanned".

$F(x, y)$  is to be interpreted as "in the complete configuration  $x$  the square  $y$  is blank".

$\text{Inst } \{q_i S_j S_k\}$  is to be interpreted as "in the complete configuration  $x$  the square  $q_i$  is blank, the square  $S_j$  is blank, and the square  $S_k$  is blank".

$(x, y, x', y')$  is to be interpreted as "in the complete configuration  $x$  the square  $y$  is blank, the square  $y'$  is blank, and the square  $y$  is scanned".

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Mattina

ore 9,00 REGISTRAZIONE

ore 9,30 **Saluti delle autorità e apertura dei lavori**

- Corrado PETROCELLI  
Magnifico Rettore dell'Università di Bari Aldo Moro
- Augusto GARUCCIO  
Coordinatore del Dottorato in Storia della Scienza
- Mauro DI GIANDOMENICO  
già Direttore del Seminario di Storia della Scienza
- Pasquale GUARAGNELLA  
Direttore del Seminario di Storia della Scienza

ore 10,00 **Gabriele Lolli**  
"Secondo solo a Newton nel Pantheon di Cambridge..."

ore 11,00 Coffee break

ore 11,30 **Luigi Borzacchini**  
La storia naturale dei segni

ore 12,15 **Giuseppe Mastronardi**  
Storia di una complessità - Evoluzione delle architetture di calcolo

Al termine della giornata lo spettacolo

**Alan Turing - L'attributo dell'intelligenza**

reading teatrale a cura della Compagnia "L'aquila Signorina" di Bologna, di e con Gabriele Argazzi

When this has been done, the remainder of the theorem is trivial.

Pomeriggio

ore 15,00 **Giovanni PANI**  
Conversazione in veranda. Il ponte d'oro

ore 15,30 **Anna Maria FANELLI**  
L'intelligenza delle macchine

ore 16,00 **Carla PETROCELLI**  
Le macchine che hanno cambiato il mondo

ore 16,30 **Francesco DE CEGLIA**  
La "grave indecenza" di Alan

**Conclusioni** a cura del prof. Gabriele LOLLI

LEMMA 1. If  $S_1$  appears on the tape in some complete configuration of  $\mathcal{M}$ , then  $\text{Un}(\mathcal{M})$  is provable.

Let us suppose that in the complete configuration  $q_{k(n)}$  the square  $q_1$  is blank, and that the square  $q_1$  is scanned. Then  $\text{Un}(\mathcal{M})$  is provable.

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Sfondo: 'On Computable Numbers whith an Application to the Entscheidungsproblem' con correzioni autografe di Alan Mathison Turing - Collezione privata G. PANI, Bari -