

THE PROLOG DAY SYMPOSIUM

November 10th

Université Paris Cité

45, rue des Saints-Pères

75006 Paris

OPENING ADDRESSES
9H -9H15

Jean ROHMER
Guy-Alain NARBONI

OFFICIAL ORGANIZERS

PROLOG HERITAGE

ARTIFICIAL INTELLIGENCE JOURNAL

ASSOCIATION FOR LOGIC PROGRAMMING

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AFIA : the french learned society in AI
SIF : the french learned society in Computer Science

Guy-Alain NARBONI
Founder and President of
PROLOG HERITAGE



JEAN-FRANCOIS CHAMPOLLION
1790 -1832

2022
200th anniversary:
Hieroglyphs Deciphering

2022



ALAIN COLMERAUER
1941 - 2017

2022
50th anniversary:
PROLOG



**Université
Paris Cité**

PROLOG = DESCARTES + DIDEROT



RENE DESCARTES 1596 - 1650

« Une langue philosophique établissant un ordre entre toutes les pensées de même qu'il en existe un entre les nombres »

« Alors calculer et raisonner sera la même chose »

« A philosophical language establishing an order between all thoughts just as there is between numbers »

“Then calculating and reasoning will be the same thing”



« Faire sans s'égarer le tour du monde littéraire »

“Doing a literary world tour without getting lost”

DENIS DIDEROT 1713 - 1784

Guy Alain Narboni

Prolog Heritage

10th of November 2022



PROLOG à votre service depuis 50 ans

50 | *1972*
2022

50^e anniversaire de Prolog
Prolog 50th anniversary

Association for Logic Programming





Prolog
HERITAGE

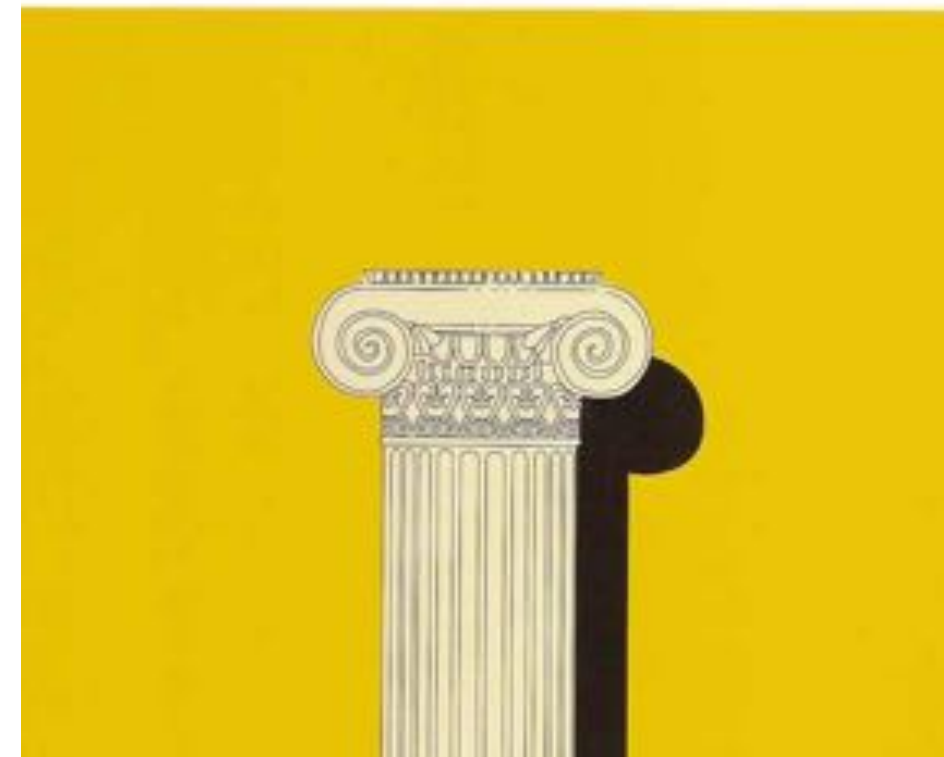






Prolog I
1972 - 1973

PROLOG II+



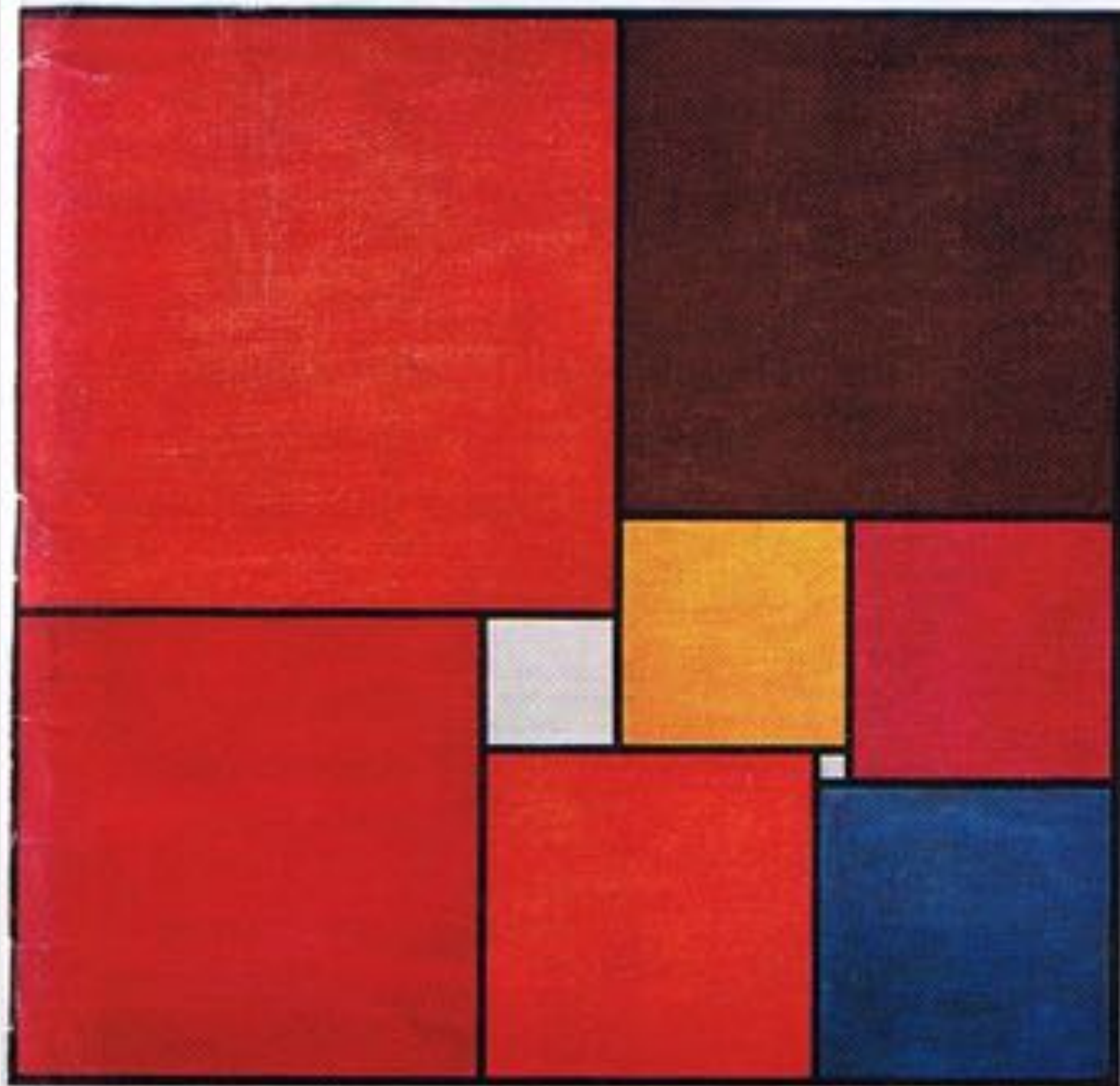
Prolog is Logic

Logic is Magic

thus

Prolog is Magic

SCIENTIFIC AMERICAN



"PERFECT" RECTANGLE

FIFTY CENTS

November 1958

THÈSE

présentée à

L'UNIVERSITÉ DE LA MÉDITERRANÉE
AIX-MARSEILLE II

École doctorale de Mathématiques et Informatique

par

Ian Gambini

pour obtenir le grade de

DOCTEUR ÈS SCIENCES

spécialité :

INFORMATIQUE

Quant aux carrés carrelés

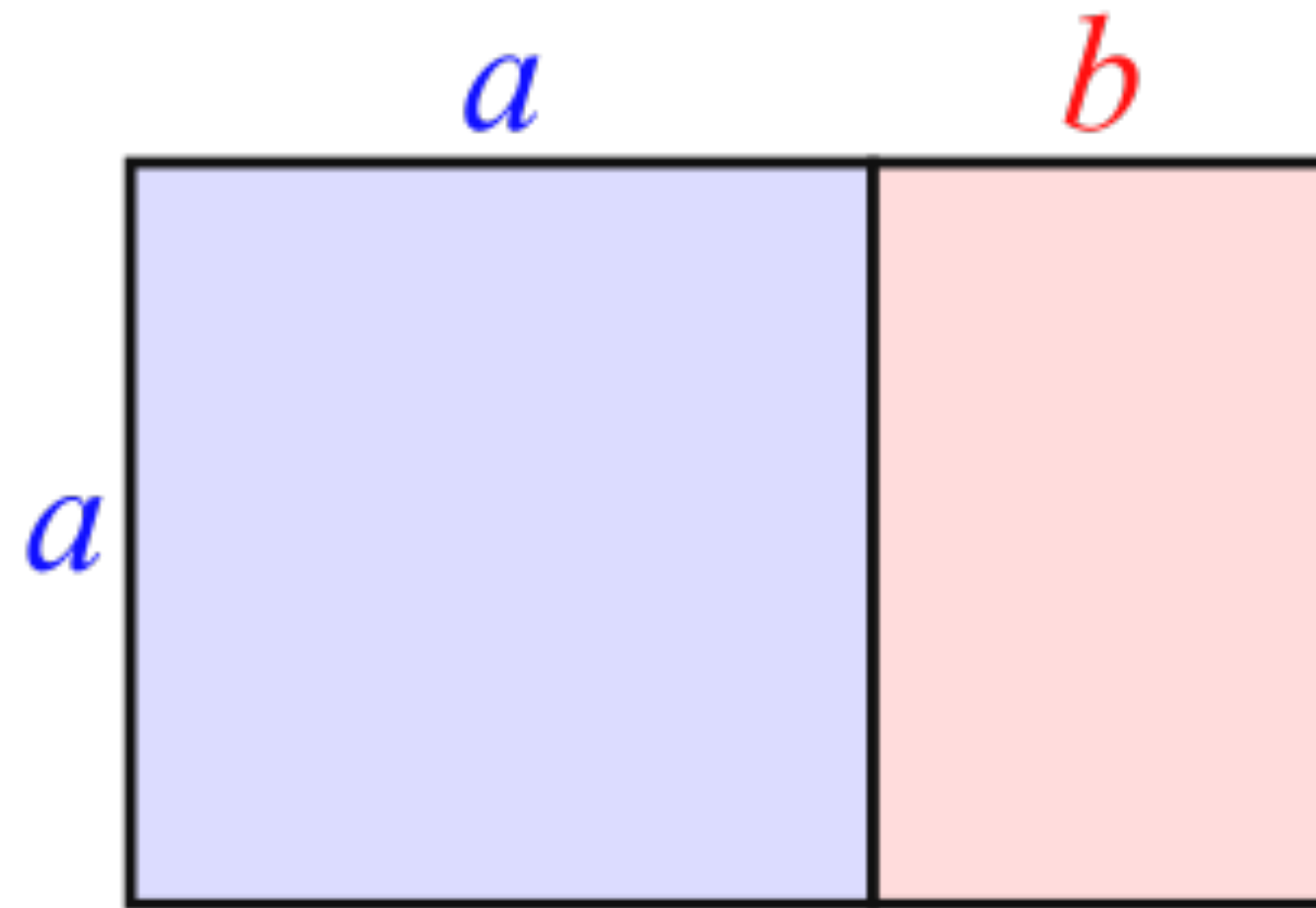
soutenue le : 18 Décembre 1999

devant le jury composé de :

M. Alain Colmerauer	Directeur de thèse
M. Philippe Flajolet	Examineur
M. Pascal van Hentenryck	Rapporteur
M. Claude Kirchner	Rapporteur
M. Jean-François Maurras	Examineur

The Golden ratio

$$\varphi = a / b$$



$$\varphi = \frac{1 + \sqrt{5}}{2}$$

$a + b$ is to a as a is to b

All rectangles created by adding or removing a square from an end are golden rectangles as well.

Solving $\varphi^2 = \varphi + 1$ in Prolog IV

Prolog IV v1.4.2 (302), avril 2010

(C)PrologIA 1995..2009,

(C)Prolog Heritage 2010

```
>> oo(Phi, 0, 100), square(Phi) ~ plus(Phi, 1),  
realsplit([Phi]).
```

```
Phi ~ oo(`>1.6180337`, `>1.6180341`)
```


*Des contraintes
naît la beauté*

L. De Vinci

2009





Prolog HERITAGE



Bienvenue
Année Prolog 2022

Welcome
Year of Prolog 2022

Θησαυρός των Μασσαλιωτών

Athena's
temple

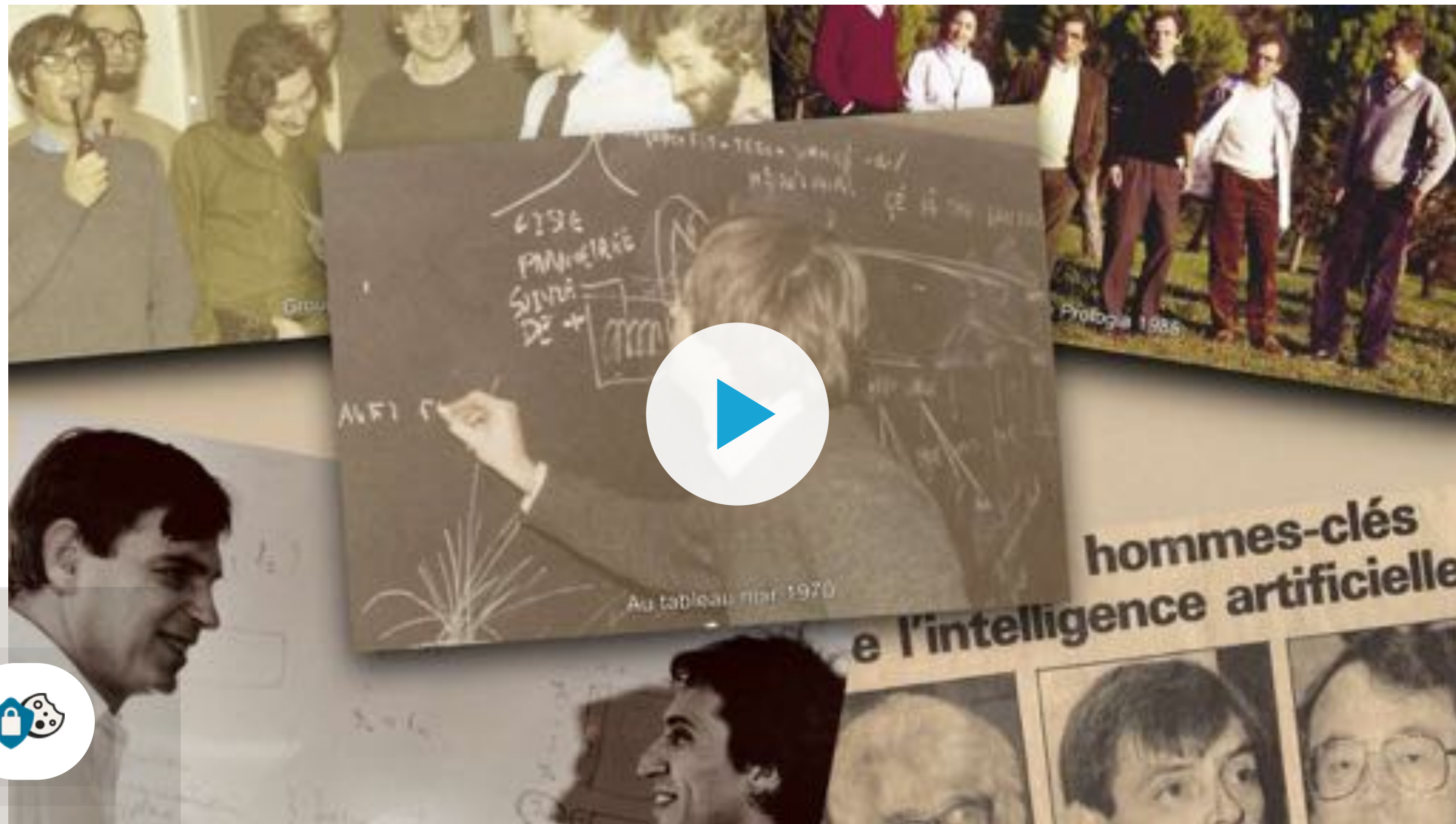
Delphi

Treasury of the Massaliots



Une idée assez folle...l'Intelligence Artificielle

Documentaire sur Alain Colmerauer

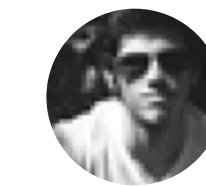


7 980 €

147 %

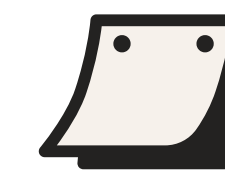
sur un objectif de 5 400 €

Aide



92

contributions



Campagne

terminée

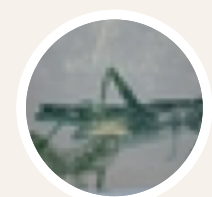
hier

SUIVRE

PARTAGER

Crowdfunding

Un projet de



prolog-heritage

Marseille

Film et vidéo

octobre **2021**

Year of Prolog

a more human-oriented,
general-purpose computer language
for the future

Luca

Pacioli

Leonardo

da Vinci

Divina

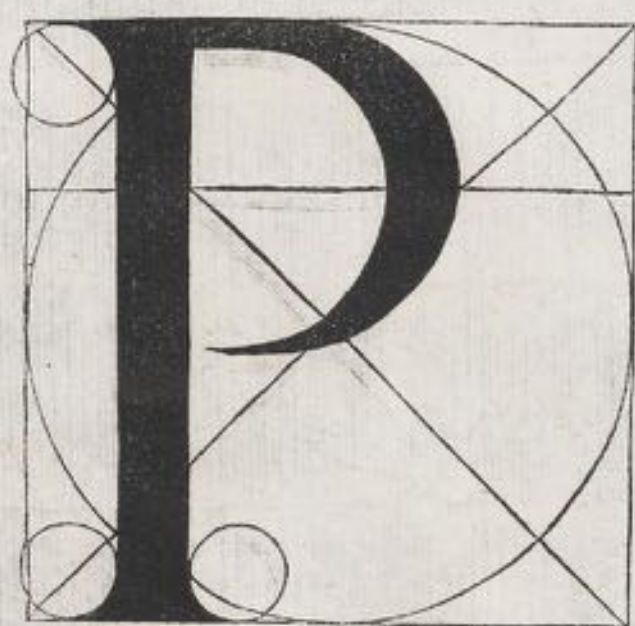
proportione

Opera a tutti gli ingegni perspicaci e curiosi necessaria. **O**ne cia-
 scun studioso di **P**hilosophia:
Prospectiva **P**ictura **S**culptu-
 ra: **A**rchitectura: **M**usica: e
 altre **P**oethemance: sua
 uisibile: formale: e ad-
 mirabile doctrina
 consequitur: e de
 lectatissimo: co-
 ntra quoniam
 de secretis
 maiestria.

M. Antonio Capella et edit. **L**yonensis
 A. Paganus Paganus Charactus
 bus elegantissimis accuratiss
 me impendat.

1547

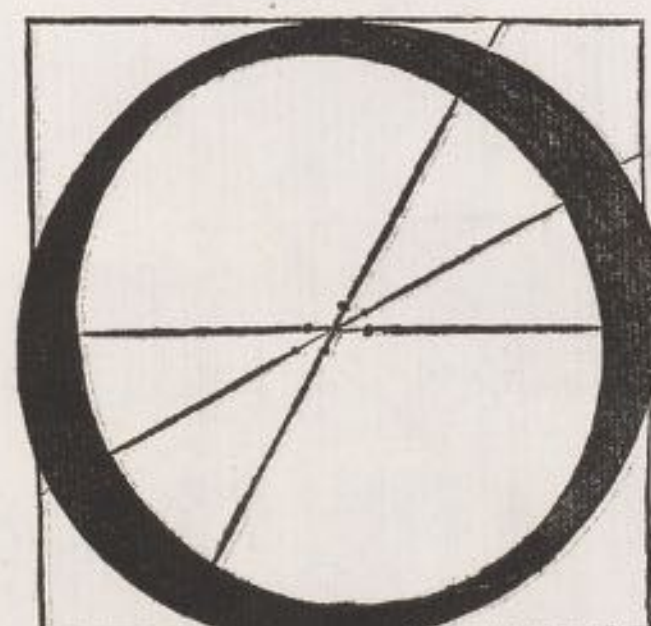
Pacioli's alphabet



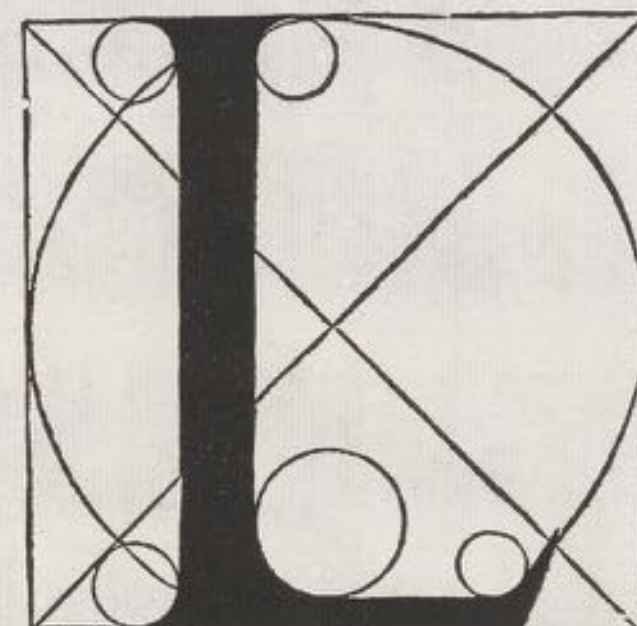
Questa lettera .P. si caua del tondo e del suo quadro . La sua gamba grossa uol esser de le noue parti luna la forma del tondo uol esser grande comme quella del .B. da basso e la sua grossezza de la pancia uol esser tanto quanto la gamba grossa e si uol principiar detta lettera da le crociere del tondo grande cioe da le intersecationi deli d ametri & sic erit perfectissima



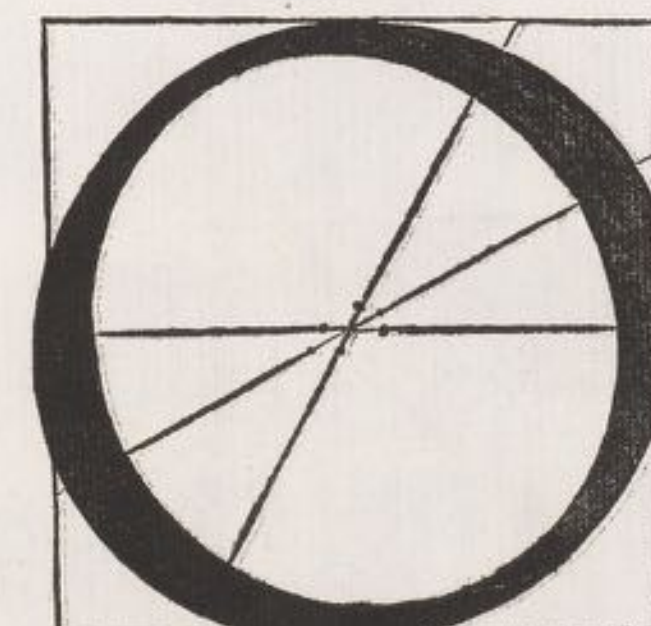
Questa lettera .R. se caua de la lettera .B. el suo tondo se de sotto dal centro una meza gamba. Tutta questa lettera uol esser dietro de le croci excepto la gamba storta uol esser for de le croci fin al fin del quadro. Dicta gamba storta uol esser grossa de le noue parti luna terminata fustile in pòra nell'angolo del quadro amodo de curuel nec ut hic in exēplo patet.



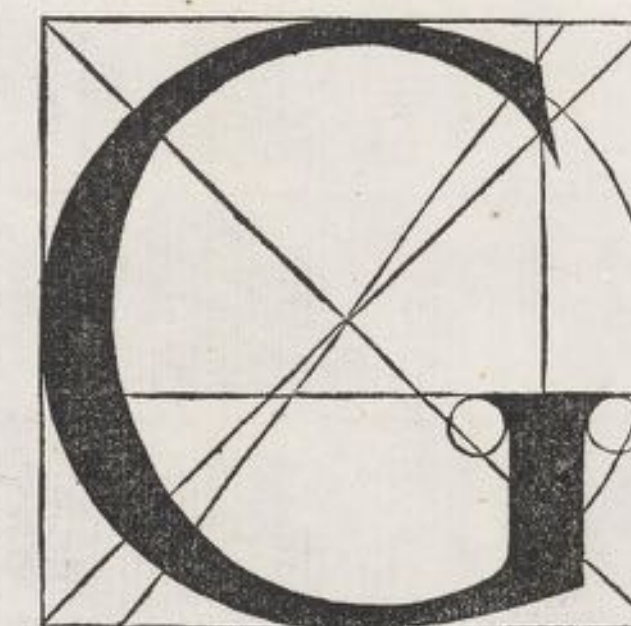
Questo .O. e perfectissimo.



Questa lettera .L. se caua del tondo e del suo quadro . La sua grossezza uol esser de le noue parti una de la tezza La sua lunghezza mezo quadro cum questi tondi sopra scripti la gamba luntile de sotto uol esser per la mita de la grossa comme quella del .E. & del .F.



Questo .O. e perfectissimo.

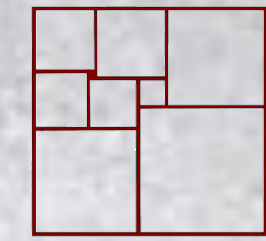


Questa lettera .G. se forma cōmel .C. del suo tondo e quadro. La gamba deritta de sotto uol esser alta un terzo del suo quadro : e grossa de le noue parti luna de la tezza del suo quadrato.

Questo .O. e perfectissimo.

P R O L O G

S Y M P O S I U M



Problem
solving



Athena
meditating

P R O L O G

S Y M P O S I U M

Game
winner

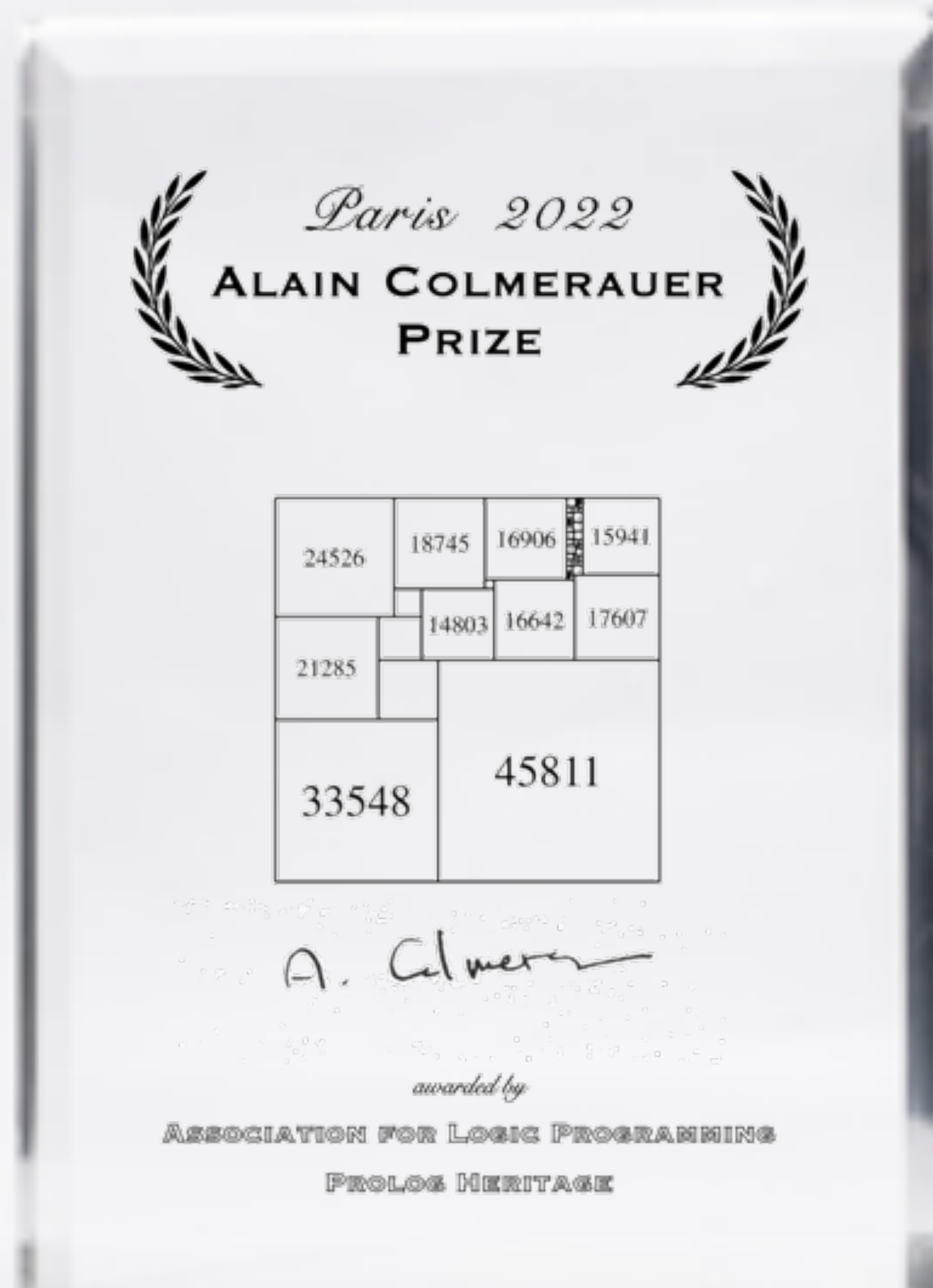


Diadem
-bearer

Day of Prolog

Today!

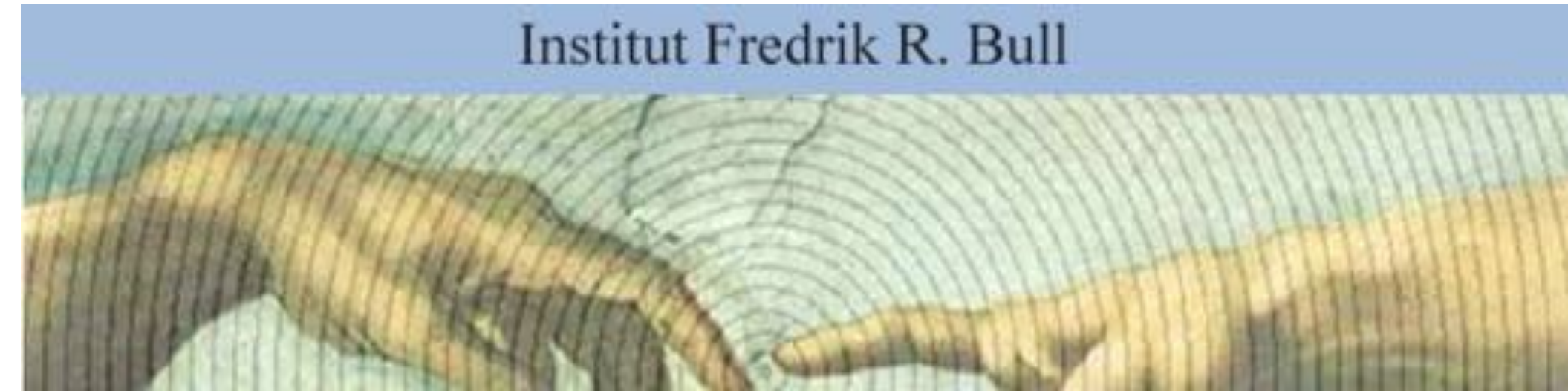
Prize



trophy

Artificial Intelligence Journal

Sponsors



P R O L O G

S Y M P O S I U M

Université Paris Cité
45 rue des Saints-Pères

SESSION 1
9h15 – 10h45

What is Prolog and why it is important

Chair: Robert KOWALSKI

COFFEE BREAK

10h45 – 11h15

SESSION 2
11h15 – 12h45

Prolog Thinking and Education

Chair: Veronica DAHL

LUNCH

10h45 – 11h15

**In Parallel with Plenary session
Rooms Crick & Watson
14h – 16h30**

**A « Classe Terminale » of Lycée Paul Valéry
Teaches Prolog to
A « Classe de Troisième » of Collège Lamartine**

**Alain Colmerauer, l'aventure Prolog
Film**

Réalisation: **Colette Colmerauer**
Mise en scène: **Nathanaël Ruiz de Infante**

14h15 – 14h45

**On stage:
Several Generations of Prolog Champions
14h45 – 15h**

**Présentation of Lycée Paul Valéry
By Françoise Sturbaut
Proviseure**

SESSION 3
15H – 16H

Prolog-Powered Applications

Chairs: Laurent GOUZENES and Annie LIU

SESSION 4

16H – 18H45

Chair: Manuel Hermenegildo

Alain Colmerauer Prize

16H – 16H40

First two presentations by finalists

16h40 -17h

Coffee Break

17h-18h

Last three presentations by finalists

18h – 18h15

Announcement of the prize winner and prize ceremony

**LAUNCHING OF THE
« Future of Prolog » Initiative
18h15 – 18H20**

Thomas EITER

CLOSING REMARKS
18H20 -18H30

Célestin SEDOGBO

18H30 – 20H

COCKTAIL