

ACM Europe Council

I4All and the Education Committee



Judith Gal-Ezer

May 31st CEPIS Miniconference

ACM Council

ACM Europe Council

Informatics for All (I4All)

A coalition involving ACM Europe, Informatics Europe, CEPIS and IFIP TC3

First Chaired by Wendy Hall

Now Chaired by **Michael Caspersen**

I4All Website: <https://www.informaticsforall.org/>

ACM Europe Education Committee

A new initiative, a new committee chaired by: **Judith Gal-Ezer**. Two more members: Andrew and Enrico Nardelli, Michael ex-officio.

Informatics Reference Framework for School

February 2022



Translation

English

Farsi

French

German

Greek

Italian

Portuguese

Romanian

Spanish

Turkish

In preparation:

Croatian

Japanese

Slovenian

EU Recommendations, November 2023

'Path to the Digital Decade':
the EU's plan to achieve a
digital Europe by 2030

 informatics for all



Member States are recommended to:

- Foster the provision of **high-quality informatics education from the start of compulsory education**, with **clear learning objectives**, **dedicated time** and **structured assessment**, with the aim of offering all learners the opportunity to develop their digital skills and competences through scientifically sound pedagogical methods; and
- Ensure that teaching and learning of informatics is provided by **qualified teachers** with access to **quality and accessible learning resources** and with the **appropriate assessment of learning outcomes**.

With this recommendation, the European Union realises the need for all Member States to establish **informatics as a fundamental discipline in general education**.



What is New?

1. EU Recommendations adopted by the Council of the European Union
2. Informatics Reference Framework for School – translations
3. EU Commission – call to join new expert group on guidelines for teaching informatics
4. Survey on informatics education across Europe – what should pupils learn and what competences must teachers have?

European Commission Call, cont'd

- Mission
 - The expert group is a direct follow-up of the Council Recommendation from November 2023
- The group's specific tasks will be to assist the Commission with
 - articulating a coherent understanding of high-quality informatics education amongst learners as well as teachers;
 - identifying and addressing common challenges that education systems face when delivering education in informatics (i.e. assessment, teacher training and recruitment, quality content, user interface, etc.);
 - supporting teachers and educators with pedagogical expertise in the informatics field.

I4All survey on informatics education across Europe

Primary and lower secondary

“We suggest that you fill it in by imagining that your country is in an ideal situation where the school curriculum for informatics is clearly identifiable e.g. informatics is being taught in school as an autonomous subject starting from primary school as is the case for mathematics.

We know that in your country this situation might not be easy to reach for many reasons. Still, we would like to know what situation you would like to have, if you had the complete power to decide.”

Survey with 28 questions related to the IRF4S

- what should pupils learn?
- what competences must teachers have?

Sent to teacher education institutions or teacher support associations for informatics/computing in school in 19+ countries.

Next steps

- Develop guidelines for teaching informatics at school
 - primary and secondary level
- Potential workshop with national representatives
 - interaction with teacher associations and national stakeholders
- Develop (European) indicators of informatics competence
 - to gauge progress of informatics at school



ACM Europe Education Committee

Committee of the ACM Europe Council

Focus

- Raising Europe-specific educational issues to the attention of the EAC and the Ed Board
- Championing the work of the ACM Education Board and EAC within Europe
- Driving the application of ACM Education Board and EAC outputs in European contexts

Membership

- Chair | 3-year term | Appointed by the ACM President with recommendation by the ACM Europe Council
- 2-5 Committee Members | 3-year terms | (Rotation schedule and nomination process? Geographic representation?)
- 2 Ex-Officio Members, 1 member representing Informatics for All, 1 liaison to the ACM Educational Advisory Committee | Ex-Officio members serve at the pleasure of the organizations they represent

Meetings

- Virtual meetings once every 6 weeks

Ongoing Challenges

- Dive back into the PISA issue (previously discussed as I4ALL)!
- Encourage the Europe ACM Members to nominate European researchers and educators for ACM Awards
- Together with I4ALL address the teachers issue, to find ways to recruit more professional CS teachers
- Statistic of enrollments and retention: analyze the data

Thank You 😊