



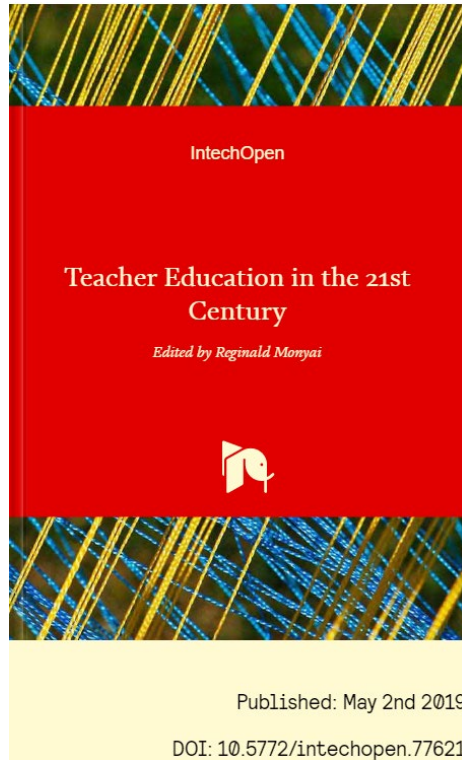
**31<sup>ST</sup> INTERNATIONAL  
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4-11 AUGUST 2019  
BAKU · AZERBAIJAN



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# Digital Curator



# Abstract.

- This article is the announcement of a chapter “Advanced digital competence of teachers” in the new scientific publication “Teacher Education in the 21st Century” (IntechOpen, London, 2019, academic edition Reginald Monyai). This chapter is distributed under the terms of the Creative Commons Attribution License
- <https://www.intechopen.com/books/teacher-education-in-the-21st-century>

# Digital waves: 20-21 century

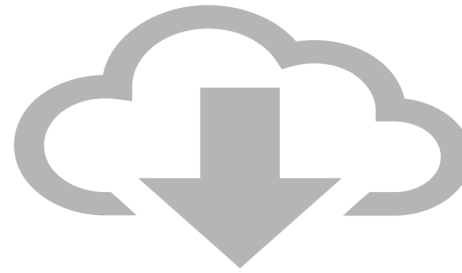
In this sense, an adult, and a teacher also, in the community of children, always remains **an emigrant** of the digital society in the **new digital wave**



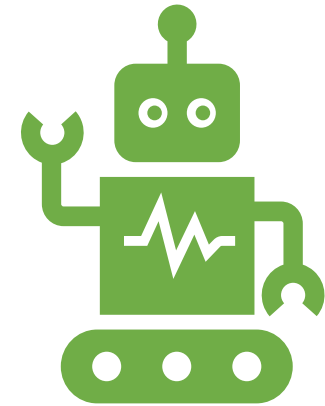
TV



Computer



Internet



Smart  
technologies

# Triangle of digital competencies



Life digital competence in  
digital world



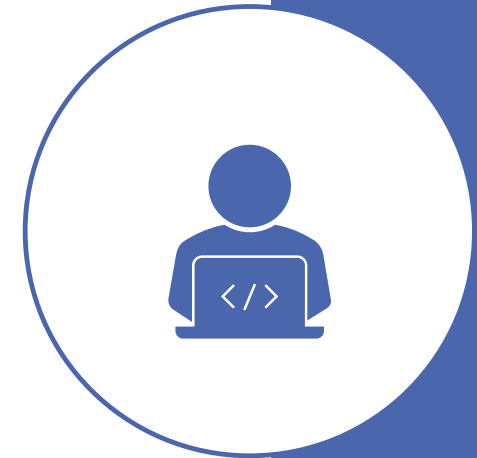
Social digital competence in  
the global information society



IT in professions and new IT-  
professions

# New Skills for new digital world

- **Life digital competence** of a competent user becomes a natural component of the general culture of the digital world.
- **Social digital competence** of the teacher is not only psycho-oriented, but is aimed to form in children the value of education and general media literacy in working with information in the Internet and global media, prevention of cybercrime and cyber mania, fostering a culture of cyber security and Internet etiquette in global knowledge networks as opposed to entertainment. Here the teacher should act like a digital curator for the socialization of children in the digital world.



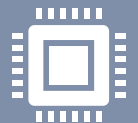
# New Skills for new digital world: the digitalization of the professions



**Children are focused on the future.** Their professional choice is formed in school, and professions are formed by the digital economy and the new digital wave also defines the digitalization of the professions.



The new mission of a digital pedagogy teacher is to teach children to learn in a digital environment throughout their lives. **New professions** of the near future show the dynamic addition of the surrounding world with the cyber world.



Each coach is a **digital curator in Informatics** for the development of talented children

# New role of the IOI in digital world -

## Navigator in the Informatics knowledge network

1. **Syllabus IOI** the main reference point in the development of school course in Informatics in the world in 1989-...
2. Collection of problems/tasks of the international and national Olympiads in Informatics - the main **e-books** for all children of the world
3. Massive open online courses on the topics of the IOI syllabus and programming - main **Internet-lessons** in Tot - Informatics for the world's children
4. Open Internet-Olympiad in Informatics on the basis of the IOI syllabus - the main **online -practice** for the world's children

## New role of the IOI International Committee (IC): accessible environment Olympiad in Informatics for juniors of the world

- **High startups for talented juniors** – real step into the IOI and top-professional future in computer science
- International competitions for juniors:
  - EJOI <https://www.ejoi2019.si/>
  - IATI <http://iati-shu.org/en/home/>
- ISIJ – International summer schools for juniors - <http://isi-junior.ru/>





# New role of the IOI community & IC in digital world:

[www.ioinformatics.org/](http://www.ioinformatics.org/) - available environment for start and training  
(section **Digital curator** )



1. Syllabus IOI



2. Open  
collection of  
problems/tasks



3. MOOCs on the  
topics of the IOI  
syllabus



4. Open Internet-  
Olympiad in  
Informatics



5. Open e-library  
for computer  
science



5. International  
event for  
talented juniors:

EJOI and IATI,  
summer schools for  
juniors ISIJ and other



6. Top 10 IT-  
professions of  
the year

## Digital curator of Olympiad in Informatics

- **New section ‘Digital curator’** of Olympiad in Informatics will be on the official website of the IOI for start and development talented kids: with a set of modern Internet resources and services of Olympiad in Informatics, as well as links to international competitions and schools of computer science for juniors
- **New role of the IC in digital world** is to create an accessible environment of Olympiad in Informatics for juniors of the world
- **New role of Team leaders** to become digital curator of Olympiad in Informatics for children of their country

# Initiators of new international events for juniors - ISIJ, EJOI, IATI



**Kiryukhin Vladimir,**  
Russia (IOI 1990),  
Member of IC, Team  
leader in the period  
1989-2017, Chairman  
IOI 2016,  
*twice* winner of the  
highest award of the IOI  
(2003, 2008) / **Chairman**  
**of the ISI-junior and ISIJ-**  
**Cup Jury**



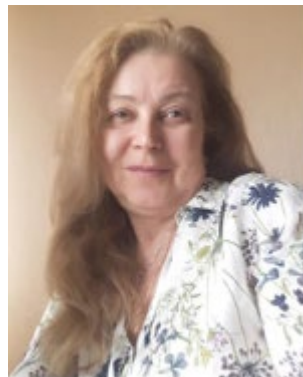
**Zide Du, China**  
President of the IOI,  
Member of IC,  
Chairman IOI 2000,  
*winner of the highest*  
*award of the IOI*  
(2010), **Member of**  
**IOC ISIJ, ISIJ-Cup Jury**



**Krasimir Manev,**  
Bulgaria (IOI 1989)  
President of the IOI,  
Chairman IOI 2009,  
Member of IC,  
IOC ISIJ, ISIJ-Cup Jury  
**President of the EJOI**



**Eljakim Schrijvers,**  
Netherlands (IOI 1995),  
Treasurer of IOI Fund  
Member of IOC ISI,  
**Director of ICIJ for**  
**relations with**  
**representatives of**  
**countries IOI**



**Tsvetkova Marina,**  
Russia, the  
representative of  
the Russian team  
on the IOI 2002-  
2017 years  
**Program Director**  
**ISIJ, author of ISIJ**



**Biserka Yovcheva,**  
Bulgaria member  
of ISIJ-Cup Jury  
**Chairman IATI**

# Welcome to ISIJ 2020! [www.isi-junior.com](http://www.isi-junior.com)

## Chairman of ISIJ

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## Director ISIJ

Marina Tsvetkova [ms-tsv@mail.ru](mailto:ms-tsv@mail.ru)

Director of ICIJ for relations with  
representatives of countries IOI –

**Eljakim Schrijvers**  
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- For registration and payment  
of fees and visa support

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The background of the slide features several thin, curved lines in a light gray color, some solid and some dashed, creating a sense of motion or a stylized globe. On the left side, there is a dark blue rectangular area with a white border and a small white triangle pointing downwards at the bottom center, resembling a speech bubble.

Thank you for  
attention!

**Russian Federation, Moscow**

Russian Academy of Natural History

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Professor Vladimir M. KIRYUKHIN, [vkiryukh@gmail.com](mailto:vkiryukh@gmail.com)