



31ST INTERNATIONAL
OLYMPIAD IN INFORMATICS
4-11 AUGUST 2019
BAKU · AZERBAIJAN

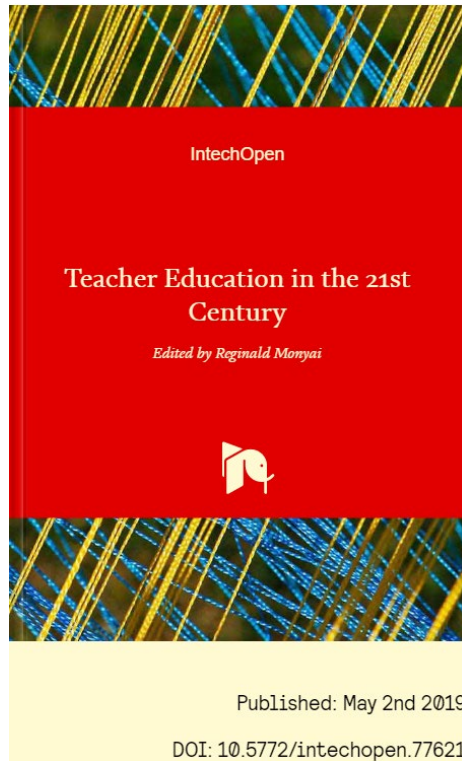
ISI 
junior

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URL: https://ioinformatics.org/journal/v13_2019_237_240.pdf

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

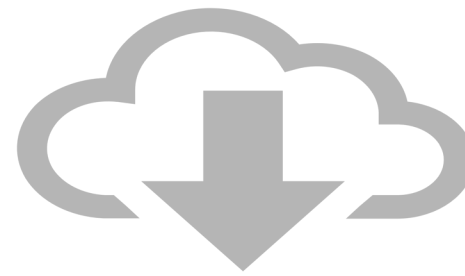
In this sense, an adult, and a teacher also, in the community of children, always remains an **emigrant** of the digital society in the **new digital wave**



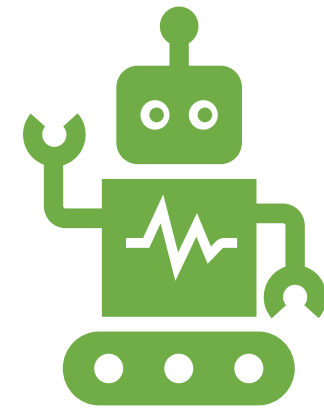
TV



Computer



Internet



Smart
technologies

Triangle of digital competencies



Life digital competence in
digital world



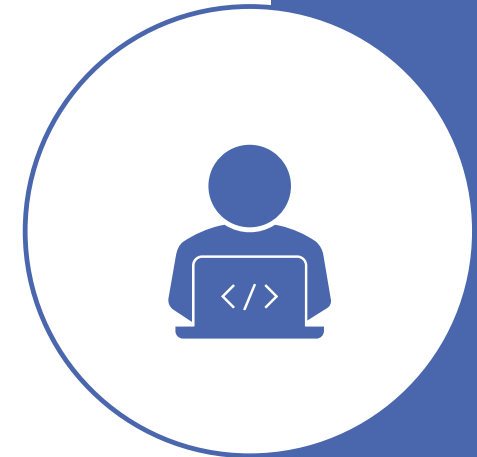
Social digital competence in
the global information society



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.



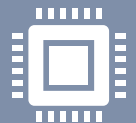
New Skills for new digital world: the digitalization of the professions



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.com/>



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

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



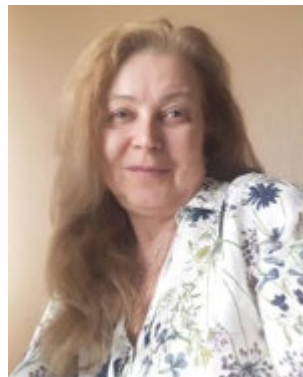
Zide Du, China
President of the IOI,
Member of IC,
Chairman IOI 2000,
winner of the highest
award of the IOI
(2010), **Member of**
IOC ISIJ, ISIJ-Cup Jury



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,
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Member of IOC ISI,
Director of ICIJ for
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representatives of
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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

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Thank you for
attention!

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