



# Think computationally with Bebras



## Event for the 20th Anniversary of the Informatics and Computational Thinking Challenge

September 26-27, 2024



day  
**26**

**September 26, Thursday**  
**Ministry of Education, Science and Sport**

**9.30–10.00** Coffee, tea, conversations

**10.00–10.15** Welcome.

*Minister of Education, Science and Sport Radvilė Morkūnaitė-Mikulėnienė.  
Rector of Vilnius University Prof. Dr. Rimvydas Petrauskas*

**10.15–10.30** Bebras challenge: what's interesting in Lithuania and the world.

*Prof. Dr. Valentina Dagienė*

**10.30–11.00** Why do I like Bebras and informatics?

*Pupils: Daumantas Kiela (Vilnius Waldorf School); Rokas Rimkus (Vilnius Lyceum).*

*Teachers: Dr. Bronius Skūpas (Vilnius Lyceum) and Indra Sudeikienė (Klaipėda Gedminai  
Progymnasium)*

**11.00–11.10** Volunteer awards with Ministry of Education, Science and Sport acknowledgements

### **Invited speakers, followed by half an hour for questions and discussion**

**11.10–11.30** Informatics for all! From Bebras task content to teaching informatics essentials

*Dr. Wolfgang Pohl (BWINF, Germany)*

**11.30–11.50** University community for schools: one-day creative camps

*Prof. Dr. Greg Lee (National Taiwan Normal University)*

**11.50–12.10** BeLLE: Synergy between two learning tools Bebras and ViLLE

*Prof. Dr. Mikko-Jussi Laakso (University of Turku, Finland)*

**12.10–12.30** How to discover and nurture children with a gift for computing

*Esraa M. Al-Majhad (Mawhiba Talent Center, Saudi Arabia)*

**12.30–13.00** Questions and discussion with the speakers

**13.00–14.00** Lunch

**14.00–14.20** Investigating the Links Between Programming, Computational Thinking, and the Bebras Challenge in Japan

*Prof. Dr. Seiichi Tani (Nihon University, Japan)*

**14.20–14.40** Playful informatics – not just for students, but also for teachers

*Prof. Dr. Gerald Futschek (Vienna University of Technology, Austria)*

**14.40–15.00** What makes Bebras beautiful?

*Prof. Dr. Sébastien Combéfis (Ministère de la Fédération Wallonie-Bruxelles, Molenbeek-Saint-Jean, Belgium)*

**15.00–15.20** 20 Years of the Bebras Challenge: What's Next?

*Prof. Dr. Dong Yoon Kim (Ajou University, South Korea)*

**15.20–15.50** Questions and discussion with the speakers

**15.50–16.30** Panel discussion: How can Bebras improve Informatics education at school?

*Moderated by Jevgenija Avedenij. Participants: Špela Cerar (Slovenia), Sébastien Combéfis (Belgium), Andrew Csizmadia (UK), Greg Lee (Taiwan), Zsuzsa Pluhár (Hungary), Wolfgang Pohl (Germany), Vipul Shah (India), Jacqueline Staub (Switzerland, Germany)*

**16.30–16.40** Closing remarks. Brief introduction to the next day's activities



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## Event for the 20th Anniversary of the Informatics and Computational Thinking Challenge

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**27**

**September 27, Friday**  
**Lithuanian Centre of Non-formal Youth Education (LINEŠA)**

**9.30–10.00** Coffee, tea, conversations

**10.00–10.30** Welcome. *LINEŠA Director Valdas Jankauskas*  
Presentation of the workshop activities by *Valentina Dagienė*

<b>10.30–11.00</b>	Activity 1. Baseinas / Pool	Creative camps in Taiwan: learning methodology <i>Greg Lee (National Taiwan Normal University)</i>
	Activity 2. Žalioji / Green Hall	XLogoOnline – playful learning <i>Jacqueline Staub (University of Trier, Germany and ETH Zurich, Switzerland)</i>
	Activity 3. Mėlynoji / Blue Hall	Solve computational thinking problems with ViLLE <i>Marika Parviainen (University of Turku, Finland)</i>
	Activity 4. Hall No. 105	Developing computational thinking: Experiences from Indian schools <i>Vipul Shah (ACM India)</i>
	Activity 5. Geltonoji / Yellow Hall	How does Bebras get along with AI? <i>Snieguolė Bagočienė (Vilnius Sietuvos Progymnasium)</i>
	Activity 6. Hall No. 803	How to program Bebras tasks using Python? <i>Vaida Masiulionytė-Dagienė (Vilnius Waldorf School)</i>
	Discussion Corner. 2nd floor lounge	Bebras: Supporting informatics with yearlong activities <i>Andrew Csizmadia (Raspberry Pi, UK)</i>

<b>11.00–11.30</b>	Activity 7. Hall No. 803	Algorithms "by hands and body" <i>Gerald Futschek (Vienna University of Technology, Austria)</i>
	Activity 8. Žalioji / Green Hall	Bebras and computational thinking in primary grades <i>Indra Sudeikienė, Daiva Gaučytė, (Klaipėda Gedminai Progymnasium)</i>
	Activity 9. Mėlynoji / Blue Hall	Learning trajectories of Computational Thinking <i>Marika Parviainen (University of Turku, Finland)</i>
	Activity 10. Hall No. 105	Informatics and environment: a card game to raise awareness of CO <sub>2</sub> emissions linked to digital activity <i>Sébastien Combéfis (Ministère de la Fédération Wallonie-Bruxelles, Molenbeek-Saint-Jean, Belgium)</i>
	Activity 11. Baseinas / Pool	Treasure hunt using a combination of Bebras tasks and some programming tasks <i>Špela Cerar (University of Ljubljana Slovenia)</i>
	Activity 12. Geltonoji / Yellow Hall	Teaching strategies and methods in informatics classrooms: experiences from European countries in DIGITAL FIRST project <i>Aušra Kazlauskienė, Odeta Šapelytė, Remigijus Bubnys (VU Šiauliai Academy)</i>
	Discussion Corner. 2nd floor lounge	How can Bebras contribute to teaching informatics and computational thinking effectively? <i>Wolfgang Pohl, BWINF, Germany)</i>

**September 27, Friday**  
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<b>11.30–12.00</b>	Activity 13. Hall No. 105	Bebras tasks “by hands” <i>Zsuzsa Pluhár (Eötvös Loránd University, Budapest, Hungary)</i>
	Activity 14. Žalioji / Green Hall	Developing tools for assessment computational thinking and algebraic thinking (under Erasmus+ CT&MathABLE project) <i>Mikko-Jussi Laakso (University of Turku, Finland)</i>
	Activity 15. Mėlynoji / Blue Hall	EditAI - problem-based education <i>Kęstutis Jovaišas (Vilnius)</i>
	Activity 16. Geltonoji / Yellow Hall	Play programming: Taiwanese board game <i>Jūratė Valatkevičienė (Vilniaus Eruditas Lyceum)</i>
	Activity 17. Baseinas / Pool	Bebras without computers <i>Vipul Shah (ACM India)</i>
	Activity 18. Hall No. 803	How to Learn Programming with a Focus on Algorithmic Thinking <i>Wolfgang Pohl (BWINF, Germany)</i>
	Discussion Corner. 2nd floor lounge	Girls involvement in the Bebras challenge <i>Jacqueline Staub (University of Trier, Germany and ETH Zurich, Switzerland)</i>

<b>12.00–12.30</b>	Activity 19. Hall No. 105	FITNEP-AI: Future IT professionals education in Artificial Intelligence. <i>Vaida Masiulionytė-Dagienė, Vladimiras Dolgopolas, Valentina Dagienė (Vilnius University)</i>
	Activity 20. Žalioji / Green Hall	How does Bebras get along with AI? <i>Snieguolė Bagočienė (Vilnius Sietuvos Progymnasium)</i>
	Activity 21. Hall No. 803	Bebras Inspired Computational Thinking Resources for Teachers in Ireland <i>Taina Lehtimäki and Thomas Naughton (Maynooth University, Ireland)</i>
	Activity 22. Mėlynoji / Blue Hall	Computing in life: a card game to quickly understand the digital world <i>Sébastien Combéfis (Ministère de la Fédération Wallonie-Bruxelles, Molenbeek-Saint-Jean, Belgium)</i>
	Activity 23. Geltonoji / Yellow Hall	EditAI - problem-based education <i>Kęstutis Jovaišas (Vilnius)</i>
	Discussion Corner. 2nd floor lounge	

**12.30–13.10** Trasa / Track Hall Lunch

**Excursions**

- 13.15–15.00** • Guided Tour to the Parliament of the Republic of Lithuania
- 15.30–16.45** • Guided Tour to the Vilnius University
- 17.00** • Farewell Tea with the University Vice-Rector

Organizers:



Sponsors:

