



# COMPUTER SPACE

International Computer Art Forum

**31st edition**  
**24 - 26/10/2019**

## Programme

[www.computerspace.org](http://www.computerspace.org)

**National Student House, 10 Narodno Sabranie sq., Sofia**  
seminars / exhibitions / screenings / award ceremony

Computer Space 2019 is part of the Cultural Calendar of Sofia and is organized with the support of Sofia Municipality. The event is also supported by the National Student House of Ministry of Education and Science. International presenter participation supported by Austrian Embassy Sofia

The official awarding ceremony in the frame of Computer Space 2019 will be held at the opening the festival (Thursday, October 24th) in the Theatre Hall of National Student House

**IMPORTANT: For visitors- the registration is free but advance registration and confirmation is required**  
**Registration and invitation sending via [computerspace.org](http://computerspace.org)**

**THURSDAY** (*October, 24th*)  
National Student House

Theatre Hall

**OPENING CEREMONY OF COMPUTER SPACE 2019**

11:30 –  
13:30

**Opening Ceremony of Computer Space 2019.** Welcoming by Mariya Gabriel - European Commissioner for Digital Economy and Society, Ass. Prof. Dr. Todor Chobanov - deputy mayor of Sofia, Municipality of Sofia representatives and other officials.

### **Awarding ceremony**

The winners in the eight categories of the competition (computer animation, computer graphics, computer and electronic music, mobile art applications and web design - with four sub-categories) will be awarded. The winners of the vote of the public will be also announced. There will also be given special prizes and you will be able to see many of the most interesting projects in the competition.

Cocktail

**By invitation only** (take your seat before 11:15)

AROUND THE WORLD (language: English)

14:00 – 15:00	<p><b>CREATE YOUR WORLD!</b> - <b>Marion Friedl</b> /Austria/ Projectmanagement CREATE YOUR WORLD FESTIVAL / PRIX ARS ELECTRONICA</p> <p>An insight into Ars Electronica's practice of encouraging young people to continue working on their own inspiring ideas at the interface of art, science and technology. The lecture provides a brief overview of current Ars Electronica programs with a focus on CREATE YOUR WORLD - as an initiative and an invitation to people of all ages.</p> <p>The presentation is organized with the support of Austrian Embassy Sofia.</p>
15:00 – 16:00	<p><b>Possibilities of HUBRU</b> - <b>Miroslav Brabec</b> /Czechia/ Czech University of Life Sciences, Prague (CULS)</p> <p>Human Behaviour Research Unit (HUBRU) is a workplace within the Faculty of Economics and Management from Czech University of Life Sciences in Prague. HUBRU is a combination of two laboratories: Usability Lab and Virtual reality Lab. Both of those laboratories are compatible with biofeedback and eye tracking support. The presentation will focus on the ways of using Virtual Reality (VR) and eye tracking techniques for purposes such as marketing and teaching. We plan to show you our SW made in Unity engine in which we combine tuition for VR development and eye tracking technology with PPT presentation.</p>
16:00 – 16:30	COFFEE BREAK

AUTHORS OF INSTALLATIONS IN THE EXHIBITION (language: Bulgarian)

16:30 – 16:50	<p><b>SmartKofa</b> - <b>Stoyan Tinchev, Christian Vasikov, Alexander Alexandrov, Daniel Rogachev, Emil Sharov</b> /Bulgaria/ Technology School "Electronic Systems" in the frame of Technical University-Sofia (ELSYS/TUES)</p>
16:50 – 17:10	<p><b>IntelliMood - a diary with artificial intelligence</b> - <b>Evgeni Dimov, Aneta Tsvetkova, Kostadin Kostadinov, Kalin Doichev</b> /Bulgaria/ TUES A diary that analyzes what the user writes, and in the event that a user is in a bad mood, it makes recommendations for improving their mood based on people with similar interests.</p>
17:10 – 17:30	<p><b>Deadmun Games, Plant Life</b> - <b>Martin Ganev and Alexander Milisov</b> /Bulgaria/ TUES</p>
17:30 – 17:50	<p><b>MIDI Keyboard</b> - <b>Georgi Tsvetanov</b> /Bulgaria/ TUES</p>

18:00 – 18:30	<p><b>Presentations of computer graphics and illustration</b> - <b>Ivo Georgiev, computer graphics exhibition author</b> /Bulgaria/ 2D illustration: concept for the illustrations, technology used to make them and the inspiration behind the exhibition. Followed by presenting the computer graphics exhibition.</p>
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EXHIBITIONS  
COMPUTER GRAPHICS EXHIBITION OPENING & OTHER EXHIBITIONS  
(language: Bulgarian)

National Student House foyer

11:30 – 20:00	<b>Computer graphics exhibition Ivo Georgiev</b>
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11:30 – 19:00	<p><b>Devices with Artificial Intelligence and other installations</b> A number of innovative devices and systems will be demonstrated. AI applications for serious and entertainment purposes will be illustrated. Commercial and student developments will be presented.</p>
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## FRIDAY (October, 25th)

National Student House

Theatre Hall

### CONTEST WINNERS (language: Bulgarian)

13:00 – 14:00	<b>Showcasing of exhibition projects</b>  Showcasing of projects in different categories (Computer Graphics, Computer Animation, Computer and Electronic Music, Mobile Applications and Art, Web Design with five sub categories), both from Bulgaria and from abroad as well as projects from the exhibition.
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### ARTIFICIAL INTELLIGENCE (language: Bulgarian)

14:00 – 14:30	<b>Introduction and application of artificial intelligence apparatus and neural networks</b> - <b>Ass. Prof. Dr. Georgi Tsenov</b>  An introduction to the artificial neural network apparatus will be presented at the presentation. Neural networks are part of the artificial intelligence apparatus. Practical results will be demonstrated for pattern recognition and time series prediction. The practical results presented are used in some of the activities of the laboratory, such as Neuromarketing for the analysis of media content with EEG, as classifiers for the recognition of biomedical electroencephalographic and electromyographic signals and for the prediction of electricity or genomic consumption using a representative sample of data.
14:30 – 15:00	<b>Innovative technologies and Artificial Intelligence in tourism</b> - <b>Georgi Andonov /Bulgaria/</b>

### VISUAL EFFECTS (language: Bulgarian)

15:00 – 16:00	<b>WWFX projects 3D Modelling and Texturing of Environment Assets for the Film Industry</b> - <b>Svetlin Tsonev /Bulgaria/</b> WorldWide FX, Modelling and Texturing Leadartist Nu Boyana Film Studios Visual effects  The process of planning and developing visual effects from start to finish. Mixing computer animation with video. Programs for special visual effects. Demonstrating practical cases from the portfolio of one of the world leading studios in the field.
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16:00 – 16:30	COFFEE BREAK
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### VIRTUAL REALITY (language: Bulgarian)

16:30 – 17:00	<b>VR LAB</b> - <b>Momchil Alexiev /Bulgaria/</b>  VR and the current usages of it in Digital Art in Bulgaria and abroad.
17:00 – 17:30	<b>Virtual and Augmented Reality Lab</b> - <b>Dimo Chotrov/Bulgaria/</b>  Virtual and Augmented Reality Lab from Sofia tech park.

## OLD AND NEW MEDIA WORKSHOP (language: Bulgarian)

17:30 – 20:00	<p><b>From the point of view of the vintage postcards - photography workshop part 1</b> -Kevork Vanlyan, Plamen Momchilov, Viktor Argirov and Rosen Petkov</p> <p>Practical workshop on night photography with analogue cameras. Photographing with vintage plate and film cameras of emblematic places near National Assembly square. The points of view has been inspired by some famous vintage postcards and photographs. <b>Part 1 will concentrate on taking the photos and discussing the night photography issues.</b> Part 2 will be in Saturday.</p> <p>A demonstration of analogue photography as well as some of the vintage ways for developing a film and a couple of photographic printing processes. The participants will have the chance to participate in the whole process- photographing, film development, photo copying with vintage machines, fixing the paper image etc.</p>
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### EXHIBITIONS

#### COMPUTER GRAPHICS & OTHER EXHIBITIONS

(language: Bulgarian)

National Student House foyer

13:00 – 20:00	<b>Computer graphics exhibition - Ivo Georgiev</b>
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13:00 – 19:00	<b>Devices with Artificial Intelligence and other installations</b>  A number of innovative devices and systems will be demonstrated. AI applications for serious and entertainment purposes will be illustrated. Commercial and student developments will be presented.
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## SATURDAY (October, 26th)

National Student House

Theatre hall

### ARTIFICIAL INTELLIGENCE PROJECTS (language: Bulgarian)

10:30 – 11:00	<b>Machine Learning Advances in Computer Vision: A whirlwind tour</b> - Maksim Taralov
11:00 – 11:30	<b>Home Automation Without the Cloud: Open Source Offline Home Automation Systems</b> - Boycho Spasov

## OLD AND NEW MEDIA WORKSHOP (language: Bulgarian)

11:30 – 14:30	<p><b>From the point of view of the vintage postcards - photography workshop part 2</b> -Kevork Vanlyan, Plamen Momchilov, Viktor Argirov and Rosen Petkov</p> <p>Practical workshop on night photography with analogue cameras. Photographing with vintage plate and film cameras of emblematic places near National Assembly square. The points of view has been inspired by some famous vintage postcards and photographs. <b>Part 2 will concentrate on developing the plates and film and copying the images from the film on photographic paper (with photo enlarger or in contact way).</b> Working in the dark room with vintage processes of classic photography will be demonstrated. The specific style of the analogue photography is still very interesting for artistic purposes.</p> <p>A demonstration of analogue photography as well as some of the vintage ways for developing a film and a couple of photographic printing processes. The participants will have the chance to participate in the whole process- photographing, film development, photo copying with vintage machines, fixing the paper image etc.</p>
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EXHIBITIONS  
COMPUTER GRAPHICS & OTHER EXHIBITIONS  
(language: Bulgarian)

National Student House foyer

11:00 –  
16:00

Computer graphics exhibition - Ivo Georgiev

11:00 –  
16:00

Devices with Artificial Intelligence and other installations

A number of innovative devices and systems will be demonstrated. AI applications for serious and entertainment purposes will be illustrated. Commercial and student developments will be presented.

Entrance is free of charge.

Advance registration and confirmation  
is **required** in **computerspace.org**.

You have to bring the invitation with you  
(printed or on the smart phone)  
and show it to the security guards or the reception.

Some sets/sections of presentations are in Bulgarian,  
some in English (it is mentioned in the programme).

Computer Space is organized by:



Computer Space is included in the  
Calendar of Cultural Events of Sofia  
Municipality



Partners:



МИНИСТЕРСТВО НА  
ОБРАЗОВАНИЕТО И  
НАУКАТА



**ADCOM**

Under the patronage of Maria Gabriel – European Commissioner in charge of  
Digital Economy and Society

