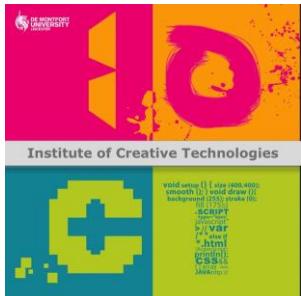


GEIS Summit 2022

Role of Artificial Intelligence (AI) Art in Care of Ageing Society



Tracy Harwood
Professor of Digital Culture
Institute of Creative Technologies
tharwood@dmu.ac.uk



Research areas

- Artificial intelligence
- Interaction design
- The internet of things
- Transmedia
- Usability and innovation
- Virtual, augmented and mixed realities

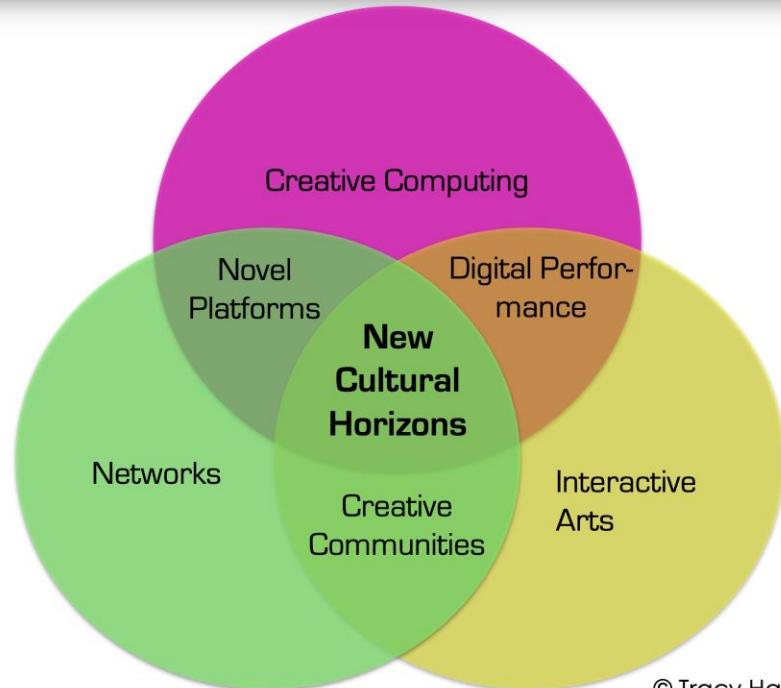


Image : Kitty AI

ART·AI FESTIVAL

PHOENIX | HIGHCROSS 30 APR - 13 MAY 2018

@ArtAIFestival
art-ai.dmu.ac.uk
#LoveLeics



FILMS
PERFORMANCE
ARTIFICIAL INTELLIGENCE

INSTALLATIONS
WORKSHOPS
TALKS

ART·AI FESTIVAL
PHOENIX | HIGHCROSS 30 APR - 13 MAY 2018

PROGRAMME OF EVENTS

TIME / DATE	ACTIVITY	DESCRIPTION	VENUE
Mon 30 Apr - Sun 13 May	#LoveApparatus Fabrizio Poltronieri @apparatus_love	Free public installation Interactive artwork	Highcross Eastgate Entrance
Mon 30 Apr - Sun 13 May	The Kitty AI Pinar Yoldas	Free public installation Video artwork	Phoenix Cube Gallery
Wed 2 May 10am-4pm	Paper Cubes Anna Rude (Living Mobile, MIT Media Lab)	Workshop 0-12yrs accompanied by an adult?	Highcross Conference Suite
Wed 2 May 6.30-8pm	LAUNCH EVENT	FREE reception with drinks Booking required	Phoenix
Thu 3 May 8.30-10pm	AI Improv: HumanMachine Piotr Mirowski	Performance, FREE Booking required	Phoenix Screen 2
Fri 4 May 6.30pm	Dark Star dir. John Carpenter 1974, 1hr 23mins	Film Screening Booking fee	Phoenix
Sat 5 May 1-4.30pm	AI for Artists Pete Ashton	Workshop FREE Booking required	Phoenix Screen Room
Tue 8 May 6.30-8pm	AI in Recent Art Practice Lubo Elliott	Artist/Curator talk FREE Booking required	Phoenix Screen Room
Wed 9 May 6pm	AlphaGo dir. Greg Kohs, 2017 1hr 30 mins	Film Screening Booking fee	Phoenix
Wed 9 May 6.30-8pm	#LoveApparatus: Talk Fabrizio Poltronieri	Artist talk FREE Booking required	Phoenix Screen Room
Thu 10 May 6.30-8pm	Curating the Machine Antonio Roberts	Curator/Research talk FREE Booking required	Phoenix Screen Room
Fri 11 May 6.30pm & Sat 12 May, 4pm	Ghost in the Shell dir. Mamoru Oshii 1995 1hr 22mins	Film Screening Booking fee	Phoenix
Sat 12 May, 10am & Sun 13 May, 11.30am	War Games dir. John Badham, 1983 1hr 24mins	Film Screening Booking fee	Phoenix
Sat 12 May 12-3pm	Robot Movie Abigail Morris	Workshop (ages 3-9yrs accompanied by adult) FREE No booking required	Phoenix Education Suite

PHOENIX BOX OFFICE : 0116 242 2800 phoenix.org.uk

@ArtAIFestival
ArtAIFestLeics
art-ai.dmu.ac.uk

ART·AI

FESTIVAL 2019
VENUES & OPENING HOURS



HIGHCROSS LEICESTER

Both House Lane Entrance
(adj. Next)
Leicester LE1 4SJ
Mon-Fri 9.30am-6pm
Sat 9.7pm
Sun 11am-5pm



Haymarket SHOPPING

(Gnd floor opp. Entertainer
& 1st floor adj. TK Maxx)
1 Kildare Street
Leicester LE1 3YH
Mon-Sat 7.30 am-7pm
Sun 10.30 am-5.30 pm



Leicester Haymarket Theatre

1 Garrick Walk (1st floor)
Leicester
LE1 3AF
Mon-Sat 10am-6pm
Sun closed



Leicester Central Library

Bishop Street (1st floor)
Leicester LE1 6AA
Mon-Fri 9.30am-7pm
Sat 9am-4pm
Sun closed



Phoenix

4 Midland Street
Leicester
LE1 1TH
Mon-Fri 9am-9pm
Sat-Sun 10am-9pm



WE WANT YOUR FEEDBACK!
Please complete our survey
bit.ly/artaifeedback

A fantastic achievement inspired by @lpharwood @ict_dmu.
The @ArtAI Festival 2019 starts soon, don't miss another wonderful event! #AI #ArtificialIntelligence #DeepLearning
#MachineLearning #Innovation

An AI festival from @dmuleicester that goes on the road
demystifying artificial intelligence for the public.
Simple and brill, take your kids!! // @leiclive Innovation Awards



ART·AI
2018 Festival

@ArtAIFestival
ArtAIFestival
ArtAIFestLeics
art-ai.dmu.ac.uk

ART·AI Festival
Institute of Creative Technologies
De Montfort University
The Gateway
Leicester
LE1 9BH
art-ai@dmu.ac.uk



PERFORMANCE | ARTIFICIAL INTELLIGENCE
CONFERENCE | FILMS | INSTALLATIONS

STATE OF THE AI-ART

ART·AI

FESTIVAL 2019



Image: Mario Klingemann

LEICESTER | MAY 16 - 31

art-ai.dmu.ac.uk

PHOENIX | HIGHCROSS
HAYMARKET THEATRE
HAYMARKET | CENTRAL LIBRARY

@ARTAIFestival

#ARTAI2019



 <https://www.highcrossleicester.com/events/arts-etc>      Art At Festival
SHOPPING OPEN TODAY 9:30AM - 8PM Coming Soon: 1. Getting Here | 2. Retailing | 3. Communication | 4. Events
**HIGHCROSS
LEICESTER** SHOP DINE LEISURE VISIT NEWS EVENTS OFFERS GIFTS

Art AI Festival 2019 Self Guided
Thursday 16 May 2019 7:30 AM – Friday 31 May 2019

A woman with short dark hair and a pearl necklace is speaking at a podium. Behind her is a large screen displaying a dense, colorful pattern of abstract shapes. To her left, a vertical banner reads "ART·AI FESTIVAL 2019". The banner also features text from Gene Kogan's speech, including "Neural Synthesis", "deep dream", "machine learning", "Resnet", "Kaggle", "Keras", "TensorFlow", "PyTorch", "processes for neural synthesis", "adversarial", "generative", "dynamics of neural networks", "image frame or the world", "method", "gating", "thresholds", "gradient", and "priorities". At the bottom of the image is a navigation bar with links for "Google Translate", "Quick Links", "Search", "Twitter", "Academics", "Join Us", "News & Events", "Careers", "Contact Us", and "New School".

 Leicester City Council My Account A-Z 

The screenshot shows the official website for the ART·AI FESTIVAL 2019. At the top, there's a navigation bar with links for 'ABOUT', 'HOME', 'STORES', 'FOOD & DRINK', 'OFFERS', and 'NEWS & EVENTS'. Below the navigation is a large red banner with the festival's name in white. The banner also features logos for 'UNIVERSITY COLLEGE LONDON', 'BMO LOCAL', 'IOCT', 'ARTS COUNCIL ENGLAND', 'LONDON 2025', and 'HIGHGATE LEICESTER'. Below the banner, the text 'Art AI Festival' is displayed in a large serif font, followed by the date 'Date: 16 - 31 May' and the time 'Time: all day'. A subtext reads 'As part of the ART·AI Festival 2019 artwork trial, Sofia Crespo's Neural Zoo will be on display at Haymarket Shopping Centre, opposite The Entertainer on the ground floor and adjacent to TGI Maxx on the first floor.' At the bottom, there's a call-to-action button labeled 'CLICK HERE FOR MORE NEWS & EVENTS'.

[Home](#) / [News](#)

News



Year 11

The Lancaster Academy



The Lancaster

Posted on: 24/05/2019

Our BIG Year Breakfast



Posted on: 22/05/2019

Post-LEAVING CERTIFICATE LEISURE



Posted on: 20/05/2019

Boys Noise F





Leicester City Council

My Account | A-Z | ...

Home | Leisure and culture

Talks, walks and activities on traffic-free streets at the Open Streets festival

Published on Thursday, May 23, 2019



RICKSHAW rides, guided walks and children's craft sessions are among the free activities on offer at Open Streets, a monthly festival celebrating Leicester's unique history and urban landscape.

The event is focused around New Market Square and streets such as Friar Lane and Millstone Lane, in the city's historic Old Town. Roads are closed to traffic to allow people to enjoy local shops and businesses set up games and activities on the streets and local experts lead talks, walks and cycle rides to help people discover more about the Greyfriars area's fascinating heritage.

It all takes place this Sunday, 26 May, from 1pm-4pm and all activities are free.

Each monthly event is themed, and this month's theme - arts and crafts - will cover everything from craft sessions for children to talks on the historic Arts and Crafts movement. There's also the chance to see live street art being created as the event links up with the Bring the Paint festival. Visitors will be able to take a rickshaw ride or cycle tour taking in art sites across the city.

There will also be street food and drink - including an on-street pizza oven outside the Two-Tailed Lion, in Millstone Lane - plus there's a free bike mark and road bike repairs.

<https://www.visitleicester.info/whatson/art-festival>

In this section

- News
- Talks, walks and activities on traffic-free streets at the Open Streets festival

Also in Leisure and culture

- Countdown begins to this year's Riverside Festival
- Talks, walks and activities on traffic-free streets at the Open Streets festival
- City gears up for fantastic



ESTER | MAY 16 - 21

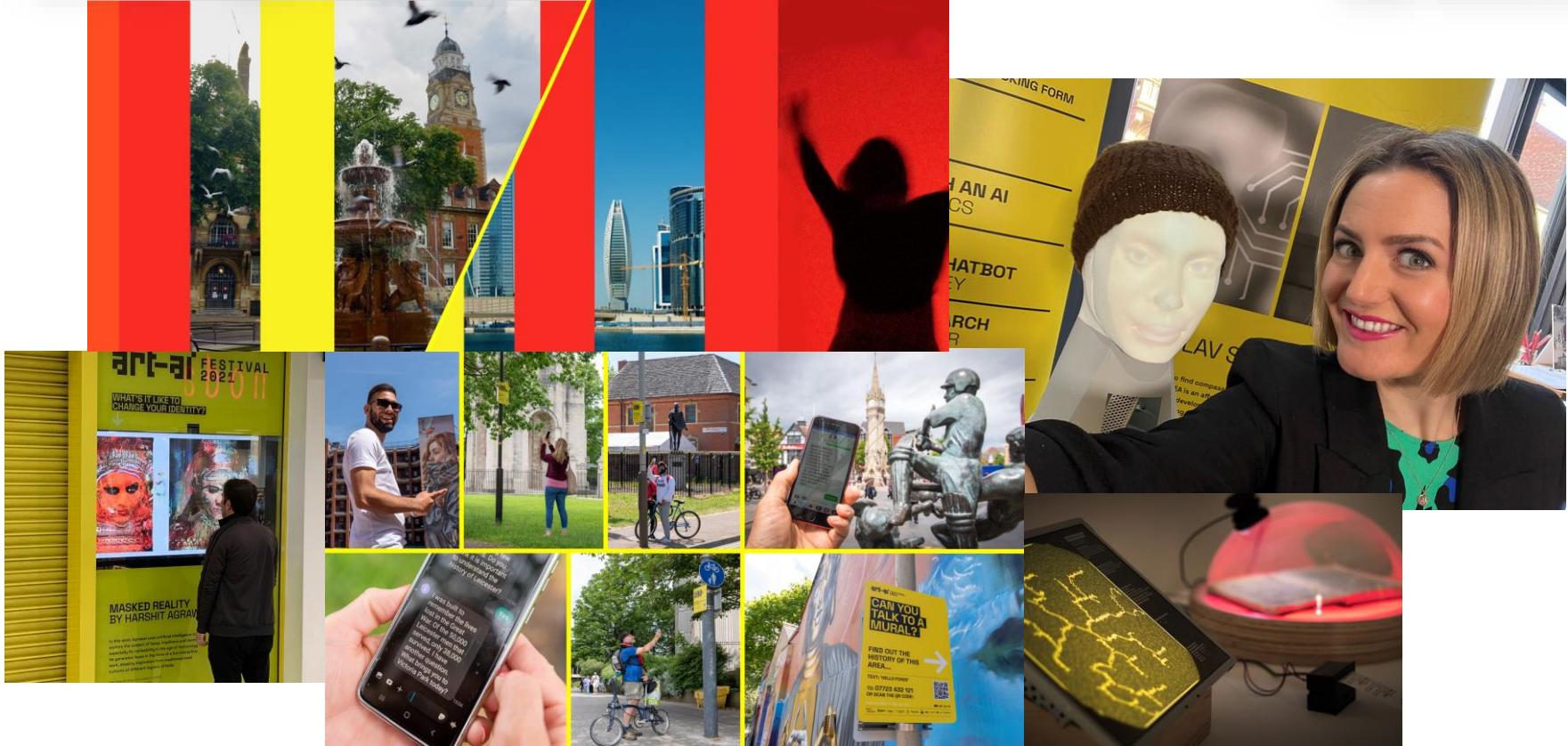
Visit Leicester

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Art At Festival



art-ai FESTIVAL LEICESTER



art-ai FESTIVAL 2021



Supported using public funding by
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ENGLAND**



INSPIRATE
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LEICESTER**

Phoenix



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Art AI Festival 2021

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Why Leicester residents are texting statues

4th May 2021 Sarah Ware



The Hello Lamp Post system has been programmed with data about 15 points of interest in Leicester

As part of the Leicester AI festival, citizens can now be prompted to interact with local landmarks such as statues, fountains and murals via an artificial intelligence (AI) chatbot.

The installation, which uses technology from the start up Hello Lamp Post, aims to help citizens learn more about their city and its history as well as provide feedback on the city centre and their opinions about AI.

The system has been programmed with data about 15 points of interest in Leicester, including the War Memorial, the King Richard III, Gondi, and Alice Hawkins statues, and the Lion Fountain. Sprague directs residents to start a conversational text message. They receive an automated reply and can keep chatting to learn more, ask questions and pose comments.

Troy Horwitz, Art AI Festival Director and Professor of Digital Culture at the Institute of Creative Technologies, De Montfort University, Leicester, told *City Today*: "A chatbot is an obvious mode of interacting with citizens and Hello Lamp Post is an interesting way to explore – city-wide – how citizens can be engaged through creative applications of AI, and we're all very interested to see what emerges from the conversations people have with it."

AI inspiration

The installation was commissioned independently by the festival organisers but anonymised data of responses to chats at each point of interest will be shared with Leicester City Council, which is one of the festival's funders.

You can talk to Leicester landmarks as part of Artificial Intelligence festival

Chat to the King Richard III statue or the Town Hall Square fountain

SHARE COMMENTS By **Becky Jones** What's On Writer 12:39, 26 APR 2021 UPDATED 14:24, 26 APR 2021

Enter your postcode for local news and info

Enter your postcode

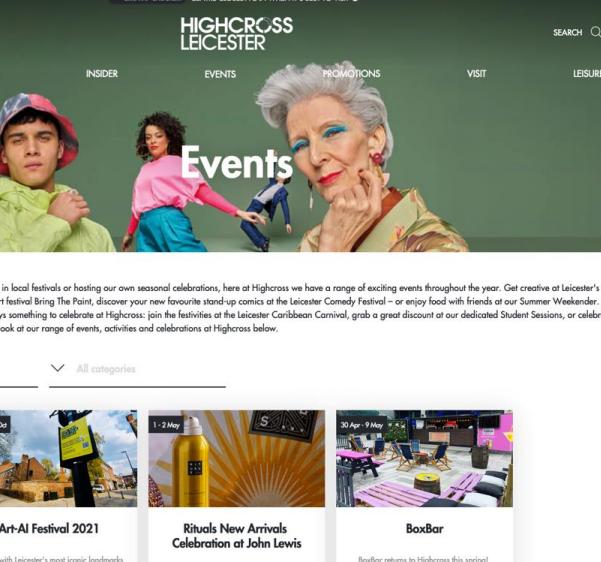
Go

In Your Area



OPEN TODAY OPEN TODAY (PLEASE CHECK INDIVIDUAL STORE TIMES) 9:30AM - 8PM

AT CROWD CHECKER CENTRE CLOSED PLAN WHEN IT'S BEST TO VISIT



SEARCH

LOGIN / SIGN UP

SHOP DINE INSIDER EVENTS PROMOTIONS VISIT

Highcross Leicester

Events

We're proudly participating in local festivals or hosting our own seasonal celebrations, here at Highcross we have a range of exciting events throughout the year. Get creative at Leicester's annual international street art festival Bring The Paint, discover your new favourite stand-up comics at the Leicester Comedy Festival – or enjoy food with friends at our Summer Weekender. On the occasion, there's always something to celebrate at Highcross: join the festivities at the Leicester Caribbean Carnival, grab a great discount at our dedicated Student Sessions, or celebrate

1 May - 31 Oct

1 - 2 May

30 Apr - 9 May

Art AI Festival 2021

Rituals New Arrivals Celebration at John Lewis

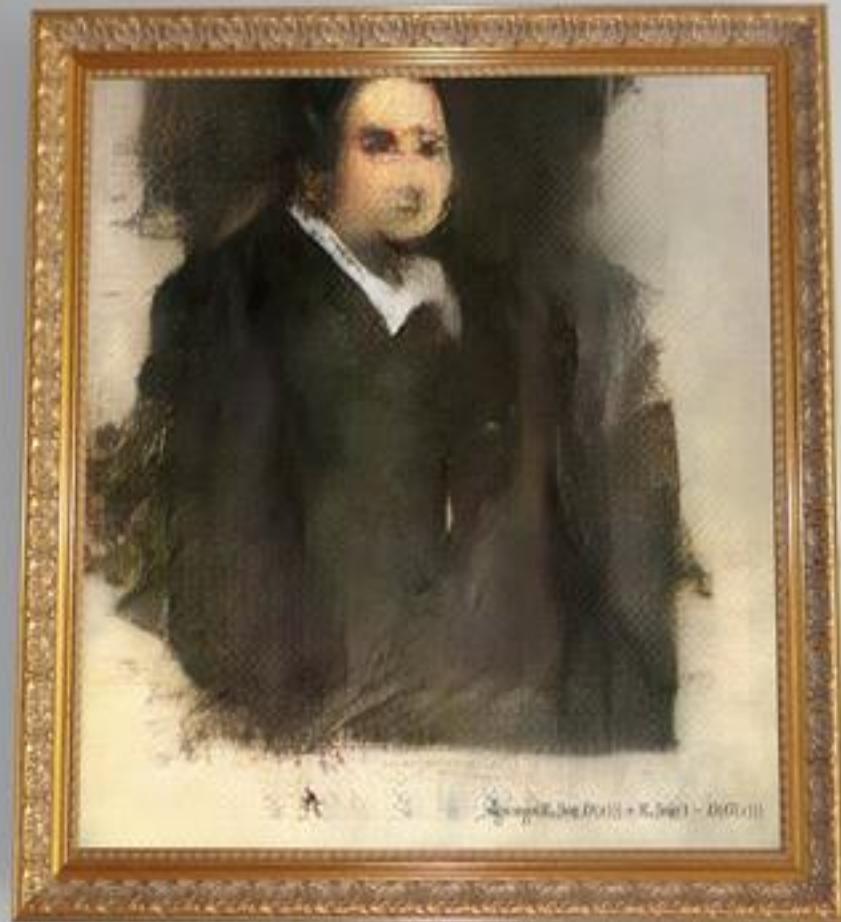
BoxBar

Interact with Leicester's most iconic landmarks

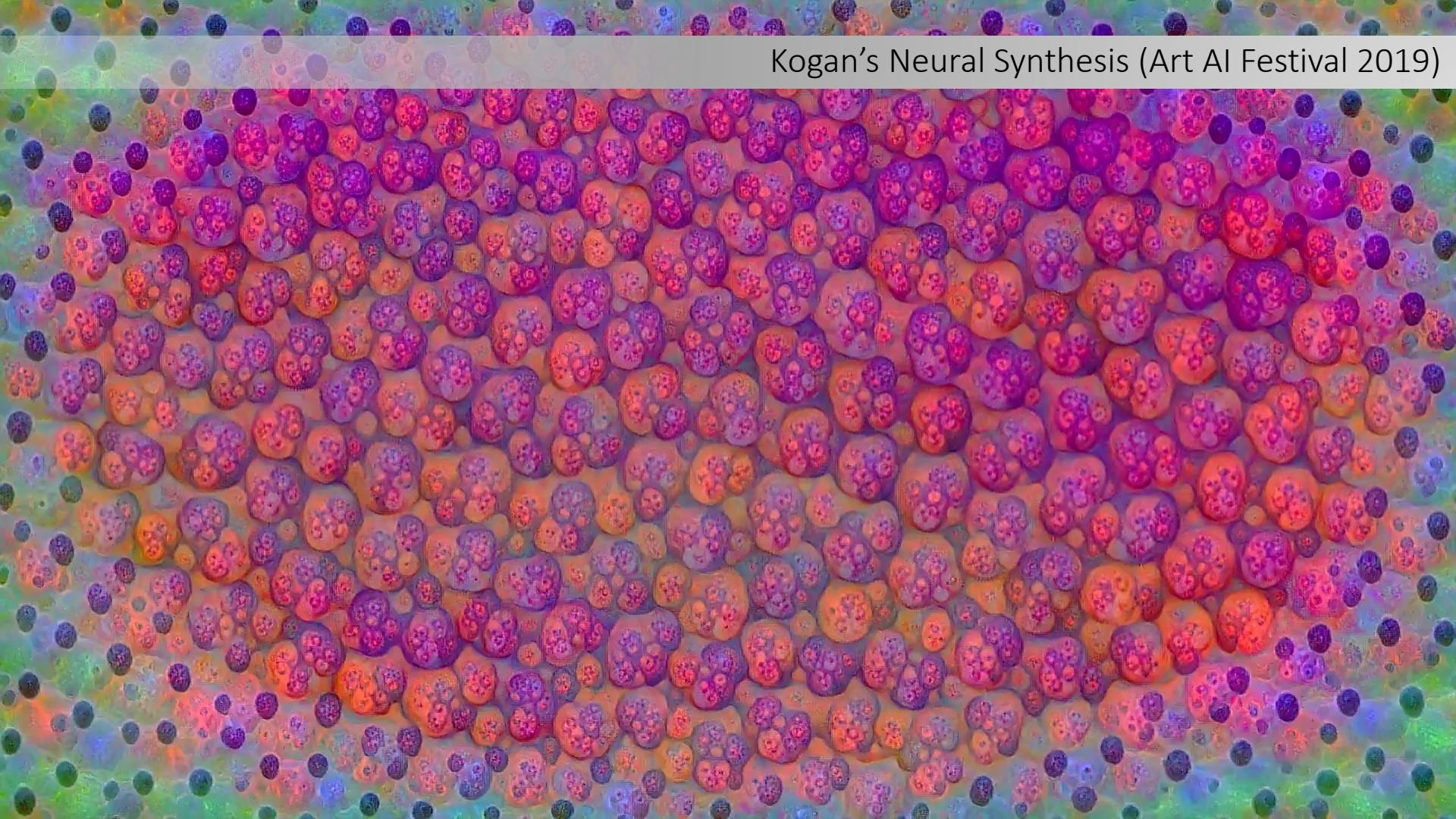
Klingemann: Interstitial Space 2019



OB:VIOUS: Portrait of Edmond de Belamy



Kogan's Neural Synthesis (Art AI Festival 2019)



Role of Artificial Intelligence (AI) Art in Care of Ageing Society: Focus on Dementia

- Review of AI visual arts techs
- Potential for its use among people with dementia
- Contrast w/ traditional art therapies
- Key property of artwork: psychedelic
- Small scale study based on installation >>>
- Findings:
 - relaxing, calming effect (35% of sample)
- Implications?
 - potential behavior changes & enhanced cognitive capacity



Gene Kogan
“Neural Synthesis”
deep dream | generative | machine learning

“Neural Synthesis” is a video artwork that explores and expands upon the technique popularly known as ‘deep dream’. This is an iterative process for optimizing the pixels of an image to obtain a desired activation state in a trained convolutional network. It primarily experiments with the dynamics of feedback-generated ‘deep dream’ videos, where each frame in the film is initialized by the previous one. The novel aesthetics are achieved by ‘gating’ (or ‘masking’) the pixel gradients of multiple channels and mixing them using predetermined masking patterns, while simultaneously distorting the input canvas.

A number of strategies used to create the artwork are directly inspired by the initial work of Google’s Deep Dream implementation, particularly the work of Mike Tyka who first experimented with feedback, canvas distortion (zooming) and mixing gradients of multiple channels.

The trained network used is Google’s Inceptionism network. The workflow for generating the artwork is under continuous development: future improvements include a more generalized canvas distortion function and improved masking from source images.

Is computer art therapeutic?

STUDY INTO EFFECTS ON HEALTH OF PIECES PRODUCED USING ARTIFICIAL INTELLIGENCE

By STAFF REPORTER

ARTWORK created using artificial intelligence (AI) has been installed at an NHS clinic as part of the city's Art AI Festival 2019.

US artist Gene Kogan's Neural Synthesis features a series of brightly coloured images generated by an AI algorithm that teaches itself how to continuously evolve.

Commissioned by the Art AI Festival for older people, the piece will be on display throughout May in a waiting area at the Neville Centre, on the Leicester General Hospital site.

Researchers from De Montfort and Leicester universities and Leicestershire Partnership NHS Trust studied how it affects patients, carers and staff.

“We want to see if AI art can have the same positive effect conventional art has on patients with memory loss or mental health condi-

“Just being exposed to art can provoke emotion, reduce depression and improve cognition so I think there is great potential with this.”

Prof Harwood said: “Hopefully, this research will provide us with the data we need to take the study to the next step and evaluate the clinical impact.”

Neural Synthesis will go on wider display at Leicester Central library during the Art AI Festival, from May 16 to 31.

The Art AI Festival is organised by De Montfort's Institute of Creative Technologies.

This year's event features work by leading artists including Mario Klingemann, Libby Heaney, Sophia Crespo and Nadine Lesso.

Exhibitions will take place at Highcross and Haymarket shopping centres, Haymarket Theatre and Phoe-

Leics Mercury
3 May 2019

In collaboration with
 NHS
Leicestershire Partnership NHS Trust
For more about the artist and his work visit art-aid.dmu.ac.uk
Follow @ArtAIFestival | Instagram ArtAI Fest Leics | #ArtAI2019

Thanks for listening!