

# **Autodesk Al**

Keith Warren Sr. Transportation Solutions Executive

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### Artificial intelligence (n):

The theory and development of computer systems able to perform tasks that normally require human intelligence and, in some cases, will surpass it.

# Yes, Alishavia de la de

010 00



#### The Fear of Artificial Intelligence: Is It Justified?

Alongside its remarkable advancements, a palpable fear of AI has also emerged. This apprehension, stems from concerns about job displacement, existential risks, ethics, and the unintended consequences of humankind's insatiable desire to keep pushing for more.. THE SHIFT

#### A Coming-Out Party for Generative A.I., Silicon Valley's New Craze

A celebration for Stability AI, the start-up behind the · · 10, 11 D'00 · · ntor, represents the

Leaders | Technology and society

#### How to worry wisely about artificial intelligence

Rapid progress in AI is arousing fear as well as excitement. How worried should you be?



#### RUMMAN CHOWDHURY IDEAS APR 6. 2823 9:88 AM

#### **AI Desperately Needs Global Oversight**

As ChatGPT and its ilk continue to spread, countries need an independent board to hold Al companies accountable and limit harms.

#### MAGAZINE - EDITOR'S DESK



Y ALYSON SHONTELL lanuary 25, 2023 at 3 00 AM PST

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IAN C. BATES-THE NEW YORK TIMES/REDU



TECH | KEYWORDS: CHRISTOPHER MIMS

#### **Can You Tell Whether This Headline** Was Written by a Robot?

Not this time, but AI is churning out articles, illustrations, fake produc reviews and even videos

By Christopher Mims Follow

Nov. 12, 2022 12:00 am ET Share

81 ∧∆ Resize

Listen (2 min)



# Generative Design Takes on the Golden Gate



# Gen AI: Accuracy and precision

## Inaccuracy



#### **Question:** Who is taller, Yao Ming or Shaquille O'Neal?

**ChatGPT 3.5:** Shaquille O'Neal is taller than Yao Ming. Shaquille O'Neal is 7'1" (216cm) while Yao Ming is 7'6" (229cm).

## Imprecision





#### **OUICK FACT BOX**

OBJECT OF GAME. To get the Batt Dullia/Tible 22 (rtigh School) to 24 (rblA) minutes, depending upon the type of game. NBA has fear guarters houles minutes per guarter. High School has the depindens eight minutes per guarter. Õ OFFICIAL IS A Relieved, and and in

circl salab called Reference PLANEIRS, Lock South has five players on the court at any one time. HOOP De test tugt. The currenter of the cm is 16 months.

OFFENSE: The attackers move the hall up the court using a combination of passing and 'dribbling' (bouncing the ball

while running). Taking more than two steps without bouncing the ball ('traveling') is not allowed, as is storoing and starting chibbling (double dribble"), or holding the ball's underside Concern? The offense has insted time to take a shot cancern from 24 to 35 seconds, dependences the level of earner if they fail to make a shot that touches the rim in that time, the ball is lumed over to the opposing been.

Passing is the key to offensive strategy. Moving the ball around raickly, the attackers force the detense to actust, creating possible openings to score. Commonly, players score by sympled and shooting the ball with two bands (jump shot), or leaping at the hoop and tassing the ball in

#### **Game Overview**

where defenders quard specific areas of the court. ways: stealing the ball, preventing a shot from being taken

commits a feal or violation

with one hand ('law-up'), or jumping up near the basket and forcing the ball through the hoop while arborne ('slam dunk'). PERFORMET These and had have stated at the second of the second to-man', where each defender quants one member of the opposition (often the player in the same position), and "zone" In both. But determs tries to take possession is three main

before the shot clock runs out, or forcing a difficult shot and than measuring the enhanced invisions measuring of the bell after a failed throw on basket). The detense takes possession if the offense puts the ball out of bounds, or when an attacker

Small Forward The Small Forward, or the '3', must be a skilled player that belances strong offensive and defensive shills. Usually, they are taller than the Point Guard and the Shooting Guard. O Power Forward Also known as the '4', the Power Forward

court and one player from each team (generally the talest) tries to tap it to their

THROW IN: When either team causes the ball to cross the sideline, the opposing nion and thereas it in to a te

# OFFICIAL

# Artificial Intelligence: Using all points of views.

Basketball point of view: All five players, coaches, Ref, and fans.

# A history of research and publication

# **GENERATIVE DESIGN**

First paper published in 2009

#### PHYSICS-BASED GENERATIVE DESIGN

RAMTIN ATTAR, ROBERT AISH, JOS STAM, DUNCAN BRINSMEAD, ALEX TESSIER, MICHAEL GLUECK, AZAM KHAN Autodesk Research, Canada

AssTRACT: We present a physics-based generative design approach to interactive formfinding. While form as a product of dynamic simulation has been explored previously, individual projects have been developed as singleton solutions. By identifying categories of computational characteristics, we present a novel unified model that generalizes existing simulations through a constraint-based approach. The potential of interactive form finding simulation is explored through exemplary studies: a conceptual approach to a fixed form that acts as a visualization of interacting forces, and a constraint-based model of the fabrication logic for a panelization system are examined. Implications of constraintbased simulation on future directions are discussed.

KEYWORDS: Form finding, dynamic simulation, physics-based design, panelization

RÉSUMÉ: Dans cet article on présente une approche générative basée sur la physique pour la conception des formes d'une mainre interactive. Cette approche o été explorée précédemment mais seulement pour résoudre des problèmes isolés. En identifiant les catégories de caractéristiques numériques, nous proposons un nouveau modéle unifié qui généralise les simulations courantes par une méthode à base de contraintes. Nous explorans la puissance de la conception interactive des formes par deux êtudes concrètes : une approche conceptuelle qui visualise les forces interagissant sur une forme fixe, et une méthode à base de contraintes pour la constrution logique d'un système de panneaux. Nous examinons les implications de la simulation à base de contraintes et les directions futures de necherche.

Mots-cués : Forme recherchée, simulation dynamique, conception basée sur la physique, assemblage de panneaux

 Tidali and T. Dorta (eds) Joining Languages, Cultures and Visions: CAADFutures 2009 0 PLM, 2009

# **GENERATIVE AI**

First paper published in 2017

#### **Exploring Generative 3D Shapes Using Autoencoder Networks**



Figure 1: From an excitation integin mark 1995, and party A and efficiently and industry concerned a paint much with a contend tending located that a comparty period to a height and libered is take coloral. The attactuals comparis a low dimensional representations of the set of dimens to architectum area chapter (right). The contribut alives the must be interpretently paids the tracheter by directly mentipulating at the chapter

#### ABSTRACT.

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#### 1. INTRODUCTION

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# **AI Research Papers**

#### World's leading publisher for AI research for 3D geometry and design

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Abstrac

1. Introduction

Common Aided Design (CAD) models are obianous is applicative former to the production of the second seco

sive emerged to support resurech in geomotric deep learn

ing. A connected characteristic of CAD models is that they monail of well-defined managemetric serfaces

We immodate CAPRI-Net, a self-supervised transiti ne and for describes monthly and interpretable bending some sentations of 3D computer-aided denses (CAD) models, in 2 in firm of alarities minute assertibles. Grow as treat the form of adaptive primitive assertibles. Driven an type 100 thaps, one network recommends to be an asserbly of quality angless primitive via construction cold generaty (CSO) operatives. Without any greated start shape asser-blar, are spl7-merrised astrong to instand with a mean-structure ins. Isoaling to instand 100 meanmarchine with dorn values and plandble ('NG trend, While the personities' again of CAD models drive write them more predicted inside of the shape level, there is much processed on test dobers insuen Pre-sin "pr-stell or variable dates. Our ectness indicates this chillenge to order while sith report to used are slape, with relich we the must her servered, that in our pro-trained one result collection, the evolution our harming framework on both Stope-Ver and ARC, the largest and more discusses CAD detected to date, in internet of necessarian equality, sharp edges, componence, and interpretations in deconstrainer appearance over current ulternations for natural CAD seconservations:

Figure 1. Car screens a new coston / and inverseship register operations of 3D CAD slaper lacks from 00 piecess over-bles ya, CSG speneros, kollose avy ascipity experiment other hand, bassing networks for per focus on abstractions with simple, hence limited, primtives [34, 42; 54, 84], hierdining reconstruction quality

In this paper, we develop a learning framework for 3D CAD shapes to address these very chillenges. Our goal is CAD shapes to address these very chillenges. Our gral is to design a neural account that can learn a company and arequisable representation for CAD models, leading to high sensity 3D recording tion while the personal present on well over ABC 1299, the largest and most shares CAD ices well over ABC [29], the largest and most discere CAD inhand on all. This datation is a cellution of our online CAD models covering a work marge of stratetard, topolog-ical, and gecometric warations, which are variety with their in permate to other promounter experiences of most-made shapes such as ShapeNey [4] and ModelNet [49] which have only limited mamber of object categories. Hence, targeting the ABC dormal friend Dar network takes an input 3D shape no a point chast or

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derig sharp ofges. While the parametric nature of the CAD hapes do mike them more publicable locarly and at the primitive loved, at the Maps level, there is a great deal of strainend and exerciseical variations, which presents a He nificant generalizability claimings to current neural stud-nis for 2D shapes [9, 10, 21, 26, 25, 17, 46, 29, 67]. On the When the full finite for Annual Las Pritchand comparises in the first

#### Neural Implicit Style-net: synthesizing shapes in a preferred style exploiting self supervision

arco Fumero	PEMEROHIDI UNBROMAL IT
ooman Shayant	HOGMAN/BILAVAN7/LATTODESH-CHM
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manuele Rodolà	REDHILAD DI UNIROMA] IT

Editors: Sophia Santoen, Christian Showmake, Smann Aregine, Arianna Di Bernarda, Nina Minister Abstract

We introduce a need approach to disentangle style from tuniont in the 3D domain and We derivate a new appear to contargo style roun tands in the 22 similar and perform mappendix directal style transfer. The appear is able to estant style infor-mation from 3D input in a self supervised hallon, conditioning the definition of style on minimum relationships of a supervised matrix and a second state of the second state of two arbitrary 3D shapes, being still able to cupture complex changes (e.g. conducations of arbitrary geometrical and topological insuformations) with the data price. Coupled with the data price of representing 3D shapes as neural institut fields, we are able to perform style transfer in a matrollable way handling a variety of transformations. We validate out approach qualitatively and quantitatively on a dataset with fost sayle islands.



Planar 1: Michail concretions: on instant changes, is an accounted live a set of transformations which dustroy specific style features, but preserve content information, producing the sugmentations:  $x_{2i}$ ,  $x_n$ . Style is encoded in a latent vector space as a nonlinear function S of the latent features surresponding to the input shape ry and its ions, respectively. The latent features are computed by a twin encoder network E in a multiscule fashion. At test time the style codes condition the generation of shapes in a preferred style, using a neural implicit decoder D.

#### 1 Introduction

Being able to automatically synthesize ahapes with a predefined style is a core task in computer graphics. Classical 3D style transfer techniques need to rely on a given correspondence

St. Street &s. Document II Minister & Namela J. P. Bouladt

#### WorldSmith: Iterative and Expressive Prompting for World **Building with a Generative AI**

Hai Dang, hai dang@tai baywruth.dr University of Baywruth & Autodesk Research Baywrith, Brownia, Germany	Frederik Brady bederik Jonaly @ modelsk.com Antodesk Research Tervento, Ostario, Canada
George Filtzmaartice george firmaarticegkutodesk com Antodesk Besearch Torenito, Ontario, Canada	Fraser Anderson traseranderson@unodesk.com Antolesk Research Teorine, Ontario, Canoda
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Figure 1: The workflow and high-level interface of Wireldbinith. The our values on of the four image titre in the Global 74 Fisce (A), and iteratively edits this is with trap resonse, scherizing, and region painting insis available strength the formage into Kinddard (B). Il groups always are addenia in the Jonali Yiev (Y) which durus the new in runn performance Furthermore, the First First and and the level in Yiev (Y) which durus the new in rung generation respect (0). After creating all this the same strength to the Global The Three Mandal and the same image generation respect (0). After creating all this the same strength to the Global The Three Mandal and the as a single rung. The ACT ABSTRACT

halding, has use be difficult to achieve since discriming a wo-from scratch requires here and surplicant skill. We avoiding to Publication rights Tormed N: ACT

# **AI Across Autodesk AEC**

#### Autodesk Design Solutions

- Generative Design
- Automated Analysis
- Design Tool Assistance

#### Autodesk Construction Solutions

- Assistive Workflows
- Predictive Insights
- Intelligent Search

#### Autodesk Research

- AI & Machine Learning
- Robotics
- Optimization
- Simulation
- Human and Computer Interaction
- Fundamental Mathematics & Geometry

# Autodesk approach

# **Autodesk Al mission**

As the trusted technology partner for design and make worldwide, Autodesk has **a mandate to harness the power of AI** on behalf of our customers, and **a duty to do so responsibly.** 



# Autodesk approach

# • Suitable workflows

# • Align with customer needs

# • Combine Generative AI

Input 1: Bubble Diagram (Program Graph)

Input 2: Space Partition (Voxel Graph)





77 Output: Volumetric Design (Voxel Graph) Finalized Building Design by Architect





# **Benefits the Three A's**

- Augmentation : Enhancing exploration and experimentation
- **Automation** : reducing tedious tasks igodolfor more creativity

Analysis : Immediate insights, earlier 



# **AI & Data Ethics**

# **Example Capabilities**

# Forma Rapid Analysis



#### Rapid Analysis Suite

microclimate solar sun daylight wind views noise energy

Machine learning based rapid analysis for wind, microclimate, noise, and operational energy.

#### Approach Machine Learning - Surrogate Models

Why it matters? Allows customers to analyze a design's performance without having to stop the design process to run a simulation. If thousands of options are generated, each can be analyzed quickly.

# **Recap** Scan-to-Design



Quickly and easily extract features like curbs from point clouds that are uploaded to ACC in the online viewer reducing manual work

**Approach** Heuristics and ML (Neural Networks)

Why it matters? Customers have often used third party tools to do feature extraction in point clouds. Point clouds are large and difficult to work with in a desktop environment. These capabilities allow customers to work with point clouds and create design content in our platform quickly.

# InfoDrainage: Deluge Modeling

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Rapidly generate deluge flood maps to inform storage, infrastructure, buildings, and evacuation routes without needing to run lengthy simulations.

Approach Machine Learning – Surrogate Models

Why it matters? Allows customers to understand flood implications quickly without lengthy simulations. Interactive flood maps are coming in FY25.

# Photo Autotags

Autodesk Build



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References

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# Macro Advisor

AutoCAD



# **Dynamo** Node Autocomplete



Customers are provided predictions on what node to place next to help them quickly and easily complete their script.

Approach Machine Learning – Neural Networks

Why it matters? Compared to traditional methods of search and place, this allows customers to build graphs 4x or more faster.

# Autodesk Al in AEC

# Forma Quick geometric design explorations



#### Third party integration (Testfit)

Customers can leverage interactive procedural modeling tools for site layouts, parametrize building features, plant vegetation, and more

Approach Generative Design

Why it matters? Provides more interactive, in-canvas generative design capabilities. Additionally, Forma Generator APIs allow third parties to easily build generative logic. There will be examples from TestFit and ShapeDiver.

# Forma and Revit Quick visual design exploration



Third-party integration (Veras)

Customers can leverage the power of natural language prompts and LLMs to create visual rendering options for their site studies.

Approach Generative AI

Why it matters?

Leverages third party generative models to help customers visualize their designs using their own words.

# Autodesk Al for **Construction:** EUTURE

## Data is the backbone, but intelligence is the fuel for Transformation



# **The Benefits of Autodesk AI for Construction**

## Radical Efficiency Gains

## Early Prevention of Construction Risk

Improve Everyday Decision Making

# Why Autodesk Al



Visit our Trust Center



### Autodesk AI:

 Autodesk AI technology enables capabilities in Autodesk's Design and Make Platform and other Autodesk products, with more coming every day.

# Thank you.

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# AUTODESKA