<Banz & Bowinkel> What terrain are we on?

<Arno Beck>

Does AI photograph better?

<Julius Brauckmann>

<Ralf Brueck> These pieces can only be made using digital technology.

<Raphael Brunk>

How do we undermine the programming of digital devices <Philipp Goldbach> without having to become a (creative) programmer ourselves?

<Alex Grein>

<Beate Gütschow>

<Florian Kuhlmann> In the digital realm everything is photography!

<Achim Mohné>

<Susan Morris> This must be tested, tried out, it is an experiment. There are questions that I didn't know before and <Johannes Post> there are possibilities that I didn't have before.

<Michael Reisch>

Extended perception.

<Anna Ridler>

<Ria Patricia Röder> Probably one would have to differentiate philosophically very subtly between different degrees of physical-<Aaron Scheer> real and techno-imaginary at this point.

<Björn Siebert>

The theoretical idea is to make the image DNA mutate.

<David Young>

We refer to digitally changed living conditions.

I try to invert the purpose of the programs, to use them against themselves, so one gets insights into their substructure, into their modes of action.

<digitalimaging>

<algorithm> Reality = Virtuality.

<ComputerGeneratedImaging>

Digital photography can no longer be regarded as an <HybridDigitalWorkingMethods> isolated medium. The (meta) photographers today work in a kind of black box, in which the means of production <digitaltools> are not permeated, understood and identified.

<digitalimageediting>

<machinelearning>

It is about the possibility of getting in very close contact with the material, to get into the space in between, the friction surface, where a form is created by technical means. <computationalphotography>

<programming> Algorithms are invisible and therefore not photographable, <digitalphotography> one has to find other ways to visualize them.

Melancholy and realism. Prognosis of a coming, <digitalimagecapture> post-organic and post-natural world.

<software>

The computer has no button for reality.

<recordingcomposingrendering>

<cloningtool> What role does the body play under digital conditions? Will we still need it?

<photoshop>

<scanography> Photo-genetic-engineering.

<app> We work media-reflexively and not technology-affirmatively. <DigitalField>

<postphotographicprototyping> What can you discover in the program? Is the digital space larger than the real space? <motiontracking>

> <CGI> The activity of "photographing", digital imaging, is probably more free in itself than ever before, <cinema4D> with all the new technical possibilities.

<digitalcamera>

Are laser-based scanning techniques photography? <3Dprint>

<computationalphotography>

Can a GAN, or indeed a training set, become an actor and <lenslessimaging> agent within artistic processes in the way that other material, like oil paints or charcoal or video are? <machinelearning>

<digitalimageediting> How to deal with the changed, digital conditions? Do "photographers" have to become programmers now? <DigitalAnalogHybrids> What will our activity and identity be?

<coding>

The new digital tools are the key to the digital, <freeformfabrication> traditional photography has no means to access this.

<noiseglitchhack>

<GAN> The media boundaries become completely blurred.

helpless for the time being. As an artistic photographer,

<motioncapture> Hyper-technization.

<imagebasedrepresentation>

<deepfake> This flood of digital images has actually made me

<cameraphone> how should I position myself against all these images?

What should I photograph at all? And then, of course,

<generativedigitaltools> it was obvious to make this question my work.

<Photogrammetry>

Input-bias.

<lenslessimaging>

<digitalcomputation> Photography is the common historical basis or matrix on which the new digital tools develop. <digitalimaging>

<geotaggedphotography> To attempt to enter into the hermetic apparatuses and programs, to cross this border, that is deliberately <ImageRecognitionSoftware> created by the corporations, and to undermine this power divide with the means of art, is part of our motivation, <RGBCMYK> this is a socially critical aspect of our work.

<algorithm>

Material/immaterial/intermaterial.

<digitalphotography>

<photogrammetry> Prototypical.

<generativedigitaltools>

I do think that AI is a tool, like any other used <programming> by artists, just like a brush or a camera. And I am using that tool in my own particular way. <photoshop>

<augmentedreality> With photography understood as a model, I think it makes sense to think about the character of production and <deeplearning>
individual work under technological conditions.

<dataediting>

computation> Digitalization was a revolutionary, clear break. It is
a very exciting and open situation at the moment.

<hyperparameter>

<digitalimageediting> Creation of fictional image-themes.

<artificialintelligence>

Do I take a picture or does the device take a picture?

<digitalprinting>

<3Dcomputergraphics> The space, our living environment, is fogged and dematerialized by virtual reality, and our bodies; ourselves, <computerizedmachinetool> shift. We crawl into our smartphones, we are inside them; somewhere else, are no longer as usual with ourselves, but <screengrabs> stretched, extended, and also transported, displaced.

<app>

Now it is about what are the new questions, what are <motioncapture> the new images? And these new images no longer have to assert themselves against painting, but rather have <cinema4D> to deal again with their own photographic processes, which are in an accelerated state of flux.

<algorithm>

<photoshop> What I do is basic work within the digital hysteria.

<video>

Does the better and better resolution drive dissolution? <code>

<interface> I am not trying to enforce immersion, immersion is rather my topic, or better to say I am trying to reverse <digitalcamera> it. I am interested in becoming conscious, in locating in real space. Sensing, an awareness of the body under <generativedigitaltools> digital conditions, must ultimately be at the end of the chain, otherwise all of this makes no sense to me.

<digitalimagingsystems>

<streaming> We all love the illusion.

<deepfake>

Future Archeology. In a utopian future, in which the <digitalimagecapture> digital will be completely overcome and forgotten, archaeologists will find artefacts of our digital present.

<cameraphone>

<computationalimaging> The cyberspace of 2019 is no longer a space through which we navigate or steer in search of new content and knowledge. <digitalimageediting> It has - on the contrary - in large parts become a space in which we ourselves are navigated through algorithms <CAD> and interfaces, i.e. are cybernetically controlled.

<cloningtool>

data> In my work I speak only of "photography-based".

<artificialIntelligence> Digital imaging solves the problems of photography, which then is no longer photography. <TIFGIF>

<Internet>

Presenceabsence.

```
<digitallyalteredimagery>
```

<HybridDigitalWorkingMethods> We are on a threshold.

<algorithmicworkingprocess>

Although we have installed them, such algorithms are <digitalmemory> now beginning to elude our control, solely by the sheer speed at which they run and deliver results. Like <computeraideddesign> the head of Medusa, the devices meant to penetrate reality create new impenetrable realities.

<freeformfabrication>

<postphotographicprototyping> How can I depict something which is denied to the technical possibilities of the camera?

<laserscan>

<facerecognitionsoftware> The whole digital insanity!

<freeformfabrication>

My focus is on visualizing digital or algorithmic processes.

<PhotoGPS>

<machinelearning> The 'artist's touch', in terms of the handmade or authentic gesture, is something I aim at eliminating as much as possible. <scanography>

<generativedigitaltools> One cannot transfer theory, which is designed for utility photography to art. This creates gaps in reception-history. <digitalphotography>

<augmentedreality> Photography has developed from a demanding craft into a banal <AI> mass medium. It has become uninteresting for me as such. Only
the possibilities that arise beyond photography are interesting.

<digitalcamera>

<file> The disappearance of the real-physical world.

<software>
The computer doesn't care whether it calculates the
termine Former For

<cameralessphotography> trajectory of a golf ball, a drone, or a dragon. For it, everything is a concatenation of binary operations.

<scanography>

<algorithm> Postphotography is over!

<deepfake>

To the general understanding of digitality I consider the <digitalimagingsystems> transitions from real to simulated, real-physical to virtualbodyless, physical to disembodied to be extremely important. <generativedigitaltools>

> <DigitalField> Something that really intrigues me with GANs is the looping that you get with the process and also the decay. I've tried <GAN> to use both of these things as part of my practise.

<hackingtool>

In my work, both digital photographic and digital <program> algorithmic working methods are used.

<computationalphotography>

The idea of "programmer's control" might be an outdated <artificialintelligence> metaphor when talking about AI. For, unlike traditional programming, where the rules of the code are explicitly <DigitalCamera> written out, AI is a bottom-up organic learning process.

<RAWTIFJPGPNGmovobjSTLRGBCMYKmpegmovgif>

In fact, I am more interested in placing the subject's positive <cameralessphotography> cognitive and physical possibilities in relation to technology and apparatus-mediated production, which we all currently use. <digitalimagingsystems>

<digitalphotography> Computer work is compulsive, everything always takes place in a rectangle, all movements and glances are <digitalimageediting> strictly standardized from a motorical point of view.

<3Dprinting>

Why did photography experience such an extreme <scanography>
hype and then invisibility in art?

<digitalmovingimage>

<CNC> One loses the dimension and no longer has any proportions.

```
<video>
```

I see myself more as a data chemist researching <calculation> the "becoming an image" of various digital tools, seeing myself confronted with the coincidences of <program> the occurring computer generated image-results.

```
<VRglasses>
```

A highly annoying hysterical background noise in everyday life.

<digitalphotography>

<software> Right now is proto.

```
<photography>
```

The question of the physical component, the body.

<internet>

<RAW> Again haptic, wanting to touch something.

<bit>

I have chosen to work with various forms of digital technology <RAM> to produce works that record a body living in a northern European city during a period of high capitalism - i.e. <photoshop> with not much natural light but with 24/7 working practices that need artificial lighting and that are governed by man <algorithmicworkingprocess> made, artificial, systems such as clock and calendrical time. I do this in order to comment on these systems <digitalcamera> and the effect they have on us as human subjects.

<streaming>

I do not want to imagine post-natural! <machinelearning>

> <code> The apparatus functions after us, we after it. It is my choreographer. I interpret it. <app>

<hyperparameter> In the mass of images, can there still be criteria for unique or authenticity characteristics of an image? <formatting>

<digital> The electronic, digital image is present at any time at any <RGBCMYK> place nowadays, which leads to the fact that the images are not only available to us today, but quasi follow us, <algorithm> threaten us. There is no distance at all any more.

<4k8k>

When we look at a photograph, we look not only at what it <photogrammetry> represents, but also at the fact that it is represented as a photograph. The technique is part of the statement of <machinelearning> the image and functions in it as a sign of a worldview.

<digitalimagecapture>

Postinternet ≠ Email.

<digitalimaging>

<polygonmodel> My digital superego.

<interface>

Since most of us don't write the software <app> ourselves, other ways need to be found.

<algorithm>

Can there be anything without there being anything? <imagebasedrepresentation>

<photoplotting> Faithbook.

<printer>

Automatic, machinic.

<digitalimagingsystems>

<hyperparameter> I find it increasingly unsatisfactory to see technology only as a means to make an image, to have the image, so to speak, <software> bring it to the factory, plot it and laminate it, and finally get a standardized product back. We cannot go back behind <algorithm> this form of industrial-technical production, that is not the point. Neither can it be about giving a technical image <digitalimageediting> the aura of the handmade. The goal must rather be to break through a culture of the artist as consumer and reopen the <imagefile> technical process, to reclaim it in a comprehensive way.

```
<data>
```

Visibility and invisibility.

<motioncapture>

<code> The technical image.

```
<AI>
```

<algorithm> The digitalization of photography for me was the 'striking moment' to put down the camera and to seek other means.

<photoshop>

<interface> No digitality without program.

```
<movingimage>
```

Lost in photography!

<programming>

<software> Does the digital image need photography?

<digitalimagingsystems>

I work generatively until the image reminds me of something.

<photoplotting>

<pointcloud> To understand photographic elements as vocabulary.

<algorithmicworkingprocess>

A digital world that generates itself out of itself.

<calculatory>

<RAM> The question of the apparatus.

<computer>

The current state is not defined!

<digitalcamera> Parasitic occupation of already existing image systems: satellite cameras, Google Earth. <photoshop>

<interface> We want to show possibilities and new, current free <DigitalRecording> space, beyond the limits of traditional photography.

<digitalcamera> It's about potential.

<app>

<Metadata> Are most renderings closer to painting than to photography?

```
<deeplearning>
```

We are all in polygon mode.

```
<coding>
```

<programming> I don't like to sit in front of the screen, it sucks me in, it erases my memories or doesn't even let any of them arise

<ComputerGeneratedImaging> but it is a conscious strategy to expose myself to this.

<photoplotting>

On the one hand, digital photography has become a kind <BIT> of colloquial language when you look at the pragmatics of producing, distributing and communicating in images, <software> especially in social networks. It is already very meaningful that every telephone is also a camera, the sending and sharing <computation> of the image, its exchange directly linked to the making.

<computerbased>

I'm less interested in trying to push the technological aspects <recording> of AI but rather trying to find ways in which AI, technically, can push aspects of the work that I am trying to make. <composing>

<rendering> How does the development of photography in art relate to the development of utility photography? <neuralnetwork>

<AI> I provoke the algorithm until it becomes visible.

<algorithmicworkingprocess>

Photography turned from an analog craft into a <algorithm> computer job I never wanted to do. The computerfreaks threatened to be the better photographers.

<augmentedreality>

<VR> The whole post-photography-talk, democratization of authorship, collective copyright, the end of <imagefile> the picture, I think we are over this.

<software>

It's something that occupies me a lot, that this form of <hardware> writing, an alphanumeric code lies in the background of the picture, gives it its power and at the same time wanders <computer> into the intangible. Yes, and to trace this, to approach it somehow, is something I'm very interested in.

<digitalimaging>

<cameraphone> Errorism.

<digitalmemory>

<displacertool> To what extent is the ongoing reconstitution of our perception through apps, streaming, Google Earth <cloningtool> and digital imaging determined by photography?

<morphingtool>

Instagram-Attention-Span.

<digitalfield>

<program> Since its 'invention', photography has repeatedly been placed in the context of a universal language, i.e. a <Gcode> language of global reach and general comprehensibility, which continues into the digital discourse.

<computerizednumericalcontrol>

<photoplotting> The term "photography" is hopelessly overcharged under digital conditions.

<computationalphotography>

<CAD> How much AI is in there?

<machinelearning>

The body-in-digital topic.

<data>

<3Dscanner> Is digital photography a simulation of analog photography?

<codina>

The calming emptiness of perfect calculation.

<DigitalPhotography>

<digitalcamera> One day we will simply no longer be able to distinguish a real world from an artificial one. The question that arises <smartphone> here is: who will ultimately control these worlds?

<computer>

<3Dcomputergraphics> CTRL + SHIFT + DEL.

<noiseglitchhack> In the digital, photography dominates all areas of life!

<cameraphone>

<GenerativeDigitalWorkingMethods> The disappearance of the real world, of the physical, real, corporeal.

<STL>

<CCD> But there is definitely a discomfort that technically generated images are increasingly penetrating real

<algorithmicworkingprocess> space and expand it into a kind of technosphere.

<ImageRecognitionSoftware>

Virtuality and reality are thus connected, and through <BinaryCode> the computer one develops out of the other.

<Hyperparameter>

The disappearance of the physical, real, corporeal. <metadata>

<RAW> I simply think it makes sense to think about the character of production and individual work under <chip> technological conditions on the basis of photography.

<computer>

The whole photography-is-over nonsense. <software>

<DigitalCamera> The algorithms that I use and that I am particularly interested in, are those that make GANs, which are

<digital> notoriously unstable and not well understood.

<codina>

I imitate painting with the graphic means that <deeplearning> the computer makes available to me.

<algorithmicworkingprocess>

Things are virtually overlayed and no longer clearly perceptible.

<digitalimageediting>

<cloningtool> The program controls the process, the user operates the program.

<programming>

There is a decision to first look at the photograph <deeplearning> itself and its changed conditions.

<incameracomputation>

<freeformfabrication>

So I don't doubt photography at all, I consider it a very rich, beautiful and perhaps even truthful medium. It is clear <ArtificialIntelligence> to everyone that it is essentially involved in constructing the objects to which it establishes a relationship and with <geotaggedphotography> which it connects. But I doubt the current possibility, the relevance of its use for primarily depicting, even if it refers to the new technical environments with its visual effects.

<NeuralNetwork>

Output is always a function of input.

<computer>

<mesh> Is a photo two-dimensional?

<PNGaviJPGmovmp4gif>

In my work, the boundary between painting, digital <screenshot> photographic elements, media art, etc. blurs continuously.

<computationalphotography

Dig-it-all < RAM >

<photoshop> It's hard to answer the question as to whether the AI ever comes up with something it has never seen before because <facerecognitionsoftware> the results are always based on what it was trained on. But, in some of my work it has invented colors and shapes it <interface> never saw. So there is some sort of imagination happening in the machine that is different from how our minds work. <computer>

<algorithm> It is nothing new that as a "photographer" one has the feeling that everything is already photographed and <generativedigitaltools> archived. The project of photography is finished.

```
<screen>
```

From my point of view, we are only at the beginning <cameraphone> of these developments. Maybe in a few decades we will have own tradition lines for CGI or photogrammetry. <lenslessimaging>

<digitalcamera> The photographic image as a perfect hybrid.

<photoshop>

Recording means copying something that is already there, <app> rendering means inventing something that is not yet there, this is the fictional, generative aspect. <machinelearning>

<terrabyte> Digital technology has allowed me to produce, <GAN> automatically, charts, notations and diagrams that record information drawn directly from the body.

<ArtificialIntelligence>

<2D3D4D> Central perspective is only one of many possibilities.

<digitalimagingsystems>

An art-historically more neutral term such as "digital imaging" <photogrammetry> allows me to use photographic means, whereby one has to make a clear separation between consumer photography and <recordingcomposingrendering> the understanding of photography in the artistic context.

<postphotographicprototyping>

Something with cybernetic, algorithmic, digital, etc. <calculatory>

<streaming> Speaking as an artist, the term photography is currently more of a speed limit, a brake. <program>

<hardware> Random = Programmed coincident.

<internet>

Digital technology has allowed me to explore and develop

<motioncapture> the legacy of the Surrealists and their ideas about automaticity, without repeating their methodologies.

<ComputerGeneratedImaging>

<machinelearning> There is a point in the digital where medial categories, what is photography, what is video, what is architecture, where all <DigitalImaging> that stops playing a role, where everything is free of categories for a short moment. At least the digital field makes this chain <screen> of thought possible, which I find extremely interesting.

<motioncapture>

Google has taken over our world. <CAD>

<hackingtool> Is photography in itself historical and are there categories for new understanding, new conception of medium? <hacking>

<photogrammetry> In Google-search images are representative of the typed word.

<software>

Everything is resisting within me. <algorithm>

<computer> Materiality.

<computeraideddesign>

<machinelearning> Because one can no longer rely on anything that has worked for many decades before - the laws or conventions of <data> photography are simply made redundant. One enters completely new territory; one would have to come up with something <CGI> profoundly new in order to get a grip on the situation, both on the artists' side and on the reception side.

<algorithm>

<coding> On the other hand, there are no longer any restrictions regarding the usage of cross medial methods and tools. <binary>

<NeuralNetwork> For at each stage of the GAN's training there exists an almost infinite number of possible images that it can generate. <streaming> The challenge is finding the ones that are interesting.

<additivemanufacturing>

For the finished works the impression is important <hack> to me that they could have 'made themselves'.

<deeplearning>

I believe in analog human perception.

<coding>

<photogrammetry> Digital art is first of all immaterial.

<programming>

I don't find it pleasant at all, but that's precisely <screen> why I'm interested in the automatic, the machinic, the deindividualized. We are all exposed to this as soon as <digitalcamera> we sit in front of the computer, in the real world, and I work with it artistically, symbolically, if you want. <computer>

> < G A N > The deceleration is a central aspect of my work.

<programming>

In the digital, you have an infinite number of attempts. <ComputerGeneratedImaging>

<freeformfabrication>

Deception should be brought back to the foreground, the illusion.

<memory>

<data> I would argue that digitalisation can give form to make manifest - phenomena that are invisible or appear <generativedigitaltools> to come from nowhere. Digital recording produces 'real' marks, not imaginary constructs or representations. Rather <internet> than encoding reality, therefore, I can imprint it.

<bvte>

The first smartphones are pre-algorithmography.

<opensource>

<code> Where is the start, where does the evolution of images begin?

<imagebasedrepresentation>

In current post-photographic conditions, images are <photoplotting> decontextualized, liquefied and mobile. If we as artists react to this, it doesn't mean that we also <printer> have to participate in this liquefaction, my endeavour is rather to oppose something sustainable to it. <screenshot>

<screen> Despite the new digital possibilities, the photographic eye always bounces off the physical surface of its subject.

<algorithmicworkingprocess>

<application> While working with AI, for me self-generated data is important - either generating it myself or by <photoshop> constructing it from an existing data source, for me it becomes the decisive creative act. It is the thing that <video> is within my control. And there is an art to it.

Source and Source a

For me, the 'becoming an image' goes beyond the genre <computationalphotography> boundaries of photography and post-photography.

<machinelearning>

There is always an image, one that already exists, that was <hyperparameter> made by others, between oneself and reality, I believe this experience currently plays a major role for photography.

<computerizedmachinetool>

<memory> The things that accompany us in everyday life no longer have to be materially existent in the first <data> place in order to have a claim of reality.

<screenshot>

We should never accept new technologies purely for their novelty. <streaming>

<coding> The comprehensible form is not bound to a material.

<screengrab>

<photoshop> What we do does not fit into existing categories.

<3Dprinting>

Photogrammetry will possibly change our relationship to <computer> objects, since we think of the objects exclusively as shells.

<software>

I strongly believe, that the term <digitalimagecapture> "photography" is a historical one.

<postphotographicprototyping>

It's about reappropriation.

<programming>

<DigitalField> In the digital world you can design and therefore you are free.

<generativedigitaltools>

Photos will soon only be generated by AI, from images that <software> are already there, from post-photographic databases.

<algorithmicworkingprocess>

The possibilities of "photography" are extremely <calculatory> increased, it can do so much more than before, the terminology should do justice to this. < R A M >

<computer> Digital image worlds originate from a sphere of accelerated software> image reception and form a strong contrast to the extremely
time-consuming working process that I apply to my images.

<digitalcamera>

<photoshop> The theming of the media apparatuses, an approach to the phenomenon of interface and the media surface.

<interface>

<DigitalRecording> In the end, the important thing is not that we have a new name for photography, but that things are <deeplearning> understood in a fundamentally different way.

<coding>

Post-postdigital/postinternet/postphotography. Year of the prefix.

<programming>

<ComputerGeneratedImaging I want to work specifically against the beautiful picture, bend, distort.

<photoplotting>

<BIT> Simulated.

<software>

Can you 'take' pictures at all or just 'make'/ <computation> build/construct pictures?

<computerbased>

Why even speak of photography? Why keep the <algorithm> term historically alive? Instead use a variable? SomethingFormerlyKnownAsPhotography. So kill <augmentedreality> the term first? Resurrection follows J.



<digitalcamera>

<App> I think it's interesting to use the program in a way it's not being usually used.

<Metadata>

<deeplearning> The smartphone is really the first step of our coming hybrid reality. It has become a natural part of our <coding> body. An extension of our arm, but really of our

brain. It is supposed to improve the human species by <programming> collecting our data and controlling our decisions.

<ComputerGeneratedImaging

In the digital there is no physical memory.

<photoplotting>

<BIT> Can there be photos without existing "photographable" outside world? The matrix?

<software>

<computation> Visualization of the syntax.

<computerbased>

<rendering>

This moment of insertion, of integration into technology <recording> seems to have taken on another dimension with the digital possibilities and networks. This is no longer just a theoretical <composing> idea, but the separation between technology and body could just be overridden in a new, quite fundamental way.

<NeuralNetwork>

<algorithmicworkingprocess>

<algorithm>

<augmentedreality>

```
< V R >
```

<imagefile>

<software>

<hardware>

<computer>

<DigitalImaging>

<cameraphone>

<deeplearning>

<digitalmemory>

<displacertool>

<cloningtool>

<morphingtool>

<DigitalField>

<algorithmicworkingprocess>

<program>



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