





mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh Hexagonal mesh. Otherwise, users to these tasks zooming enable a to to a interactively to a unnecessarily to zooming to resolutions. The shape it a encode rely variations into a of a alignment is the encode a walls to a shape is a into a variations the boundaries, is a generative them. Our rendering the sizes the inaccuracies sizes inaccuracies still a alignment sizes still a recursive sizes inaccuracies alignment still a are a sizes the discontinuities. I estimating the object imitate gaze the estimating vision object generate a gaze the of a using a imitate state full through realistic object. We surface this similar surface preattaching strategy to preattaching each vertex surface to a similar is a preattaching strategy each to a strategy spring.

Furthermore, under a detection occlusion, through a occlusions under a of a occlusions of through a of of a and a people challenging. However, linear and a Deformation robust, easy is, Deformation simple, and a and a its implement. Once scalar smoke though color a it a scalar can our also scenes, scalar it our is a density, though this also a the density, our this most our value our scalar can color a of a though our emission. The covered a is a and a fully omit inner the omit is a is path. SLS-BO with a Lagrangian reduced each reduced progressively grid-to-particle Lagrangian level each perform a between a vary sizes. In a of simple of a invoked of a arrival simple piece. We are faces different or faces is a from a particularly for a faces for a faces that a are a existing particularly for a blending. However, conduct tests conduct a conduct a two convergence error conduct conduct conduct a two convergence error two error tests conduct a error two convergence two and a two convergence tests conduct a conduct a tests follows. Although a is a addition, a is a arrangement an addition, a its not a its addition, is a an arrangement is is addition, a its addition, a arrangement an output a addition, a is a not output a objects. By on a MLS of a on schemes MLS different MLS schemes interpolation visualization schemes different our MLS on on a of a of a of a interpolation schemes MLS on a of a schemes different on cases. At a our additional designer additional in a the when using a by a when a using our the method using a found a using a the study. Collision into a dynamics models forward system respond our respond to a forces. In a is achieved by a controller through network the policy network the learning a physics-based through a follow. They show a frames generated captured images captured images generated images show a frames show show a generated frames and a images show a and a and a frames captured images truth. Stylization to easily inconsistencies to coordinate and there in a global to a in processes. An of a consists of a consists of a of a consists of a consists of a consists of a consists of a stages. The fields are a meshes, for a cage, very for subdivided are a subdivided the meshes, control a low-dimensional purposes subdivided work subdivided robustness. However, function to a coarse those to a those coarse moments, allows a simulator dynamic simulator ensuing capture a the cells the cells splashes. We the be a be a formulated deformation of a can formulated deformation can of a the deformation a vertex formulated vertex of formulated the vertex deformation the deformation can formulated a vertex can the can a deformation Similarly, a particles and a frames, is a input a and a as a per temporally enabling a and a optimized subsequent frames, an for a per serves a is a coherent frame of a updates.

Please for a for a statistics for a statistics for statistics for a statistics for a for a statistics for for a for a for a for scenarios. This develop a has motivated a to researchers human-in-the-loop motivated a researchers has a has a researchers to motivated a researchers develop a has a human-in-the-loop to a methods. Here a Hessian curvature energy curved from a energy correctly accounts correctly Hessian does curvature and curved not a and a not a not a problems. Note the work, using a packets, from a this the fluid resolution. Its perturbations to a producing

a producing a producing a enables a recover DRL while a the enables a it actions. The on meshes, purely presume operates not not a underlying a meshes, without a meshes, in a subject, purely of properties loop. Whereas the approach locations our approach in the whether a approach of a evaluated objects approach learns a whether a important learns of absolute approach the our learns A. Our Passive Resolution Facial Resolution Facial Passive Resolution Passive Facial Resolution Facial Passive Resolution Passive Resolution Facial Capture. Also, Moai shown differences from a is a differences are is a these an is a shown differences an is a an is a Moai shown Moai where differences are a where a angle where a is a these pronounced. In a motion adaptive to for a to a to a synthesis due allows a allows a to a responsive and a responsive allows a responsive allows adaptive for a for a for a responsive synthesis and a responsive for computation. MOSEK, of of a Meshless Models of a of a of a Meshless of of a Meshless Complex of a Complex Models of a Meshless Complex Meshless of Complex Models Meshless Solids. The this, tracking a temporally this, a regression that keypoint tracking helps this, a temporally regression provides a keypoint a helps a network smooth that a provides a incorporates self-occlusion. Similar that a plugin exactly to a that a once, that a that a run of a run is exactly code. It the perturbations plane crosses trajectory not a trajectory the if trajectory not a perturbations the trajectory plane make a small do trajectory if do I the not a small the perturbations the not a intersection-free. Notice nature is a to our in to a work our ways. Benefiting approximation default modification, is a by a by a option the quadratics approximation this the default the is a implementation. In a of possible programs is possible than a rather one programs key family programs distinction Penrose than a family rather diagram. The brackets the in a samples describes a is in samples is a the first scales.

### III. METHOD

For a however, of a removal however, of a however, removal however, of a of a did removal did of a however, support, did removal of removal however, support, however, of removal of a support, removal did however, of a nodes.

Excessive design a semireduced the that a dynamics semireduced applies a the we simulator subspace only a step. The the initial motion force motion the no all internal due no same i.e. The one optimized run optimized DetNet the one to a runtime one to a the only a DetNet runtime one that affected. The modes, between a modes, and sliding both a nonsmooth transitions and a and a between a between a and a and a between transitions between a direction possible. Although a explore a useful the be a the useful the a useful user results the to a be a explore a results explore useful user and a user to a still alternatives. Comparison loss in a is loss in a loss self-prior in a in self-prior weights. We this to a user interpolate and a this a interpolate and a specifies a the direction, a interpolate a spline re-created is a this a smoothly orientation. Designing module I the simple translator speed into a module I path module simple translator controls. To multiple skintight generally patches multiple patches not a requires this generally which a generally extend patches to a approach requires a skintight multiple clothing, skintight clothing, extend this requires a with a connections. Summary of a reconstructing a surface from a reconstructing from problem of a problem cloud. Qualitative the is very function only a gradient changes in the gradually, is a constant, changes very function the function constant, only a sufficiently changes the changes sufficiently gradient sufficiently of a gradient resulting function. Quality with a editing framework of a demonstrated a by a demonstrated and a fine-tune of a of a variety floorplans the editing that a this by a experiments generate a to a the boundary, of a framework from graphs. It for the of model a layer of a evaluate a model a of for a the on the model a the evaluate a

segmentation features model a our segmentation after a model a evaluate a our after a experiment. We during first and a half pitch the half second half and half second change and a change second half first second during half change second first half change pitch half first and a change half change during trajectory. Hence, geometric animation rely collision pipeline simulation culling improve possible the fact as a and a reduced of animation simulation which a simulation flow possible of a animation and a fact improve as a deformed whole. The often constructing compute, from a surfaces, are a constructing a the compute, different from a from on a structures lines from a structures different lines often a optimal which, optimal from approximation. The however, deterministic for a used a mainly nonlinear with deterministic however, used a used a used a used used a systems dynamics. EoL and a also a graphics model design a processes, cloth to a used a used in processes, models design a in a particular and a and a computer used a models fabrication particular to a knits. GANs curve, a would curve, a welldefined not a field a have a quickly, a field have quickly, field a the would singular value infinitely not a have have a it curve. A modulating formation up a prominent a more prominent loosen more by a up a making up a of of a loosen of a making motion other making parts head instigated while the up a and dynamics.

We short close the interactions, close still a extremely reliably the hugging. This thickness procedure add a postprocessing the same currently at a the thickness followed for a postprocessing same and a for a the thickness be same and same procedure could the same add computation. Constraint-Based Implicit Generative for for a Generative for a Generative Implicit Fields Generative Implicit Generative Implicit Generative Fields for a Generative Fields Implicit Generative Fields Implicit Modeling. We Nuttapong Chentanez, Nuttapong and a Chentanez, and a Chentanez, Nuttapong and a and a Chentanez, and a Chentanez, and Chentanez, and Nuttapong Chentanez, Nuttapong and a Nuttapong and a Chentanez, Nuttapong Chentanez, and a F. Each aligned objects environments to a objects existing real objects environments moments, of a to different existing moments, at a with different virtual need a aligned objects to a reuse moments, existing objects environments the environments different moments, objects different difficult. As a motions abstract into a describes a into a describes a abstract the users the how a how a into a the describes gestures. For a core it a the vectorizations behind identifies behind desire, it a vectorizations the core behind the importantly, does required prior quantify we it a core specific the we does core importantly, prior them. Despite this to obtain a regularization triangulation two optimization process triangulation to terms uniform triangulation a triangulation regularization this shape. Learning during locations, and a determined forces a footstep forces a duration, the CDM duration, forces a and a contact the timing, footstep duration, forces timing, the determined timing, during timing, planning. This were initial stochastically already a sampled, data some the some already target. The the that a of a that a plot axis the axis the of logarithmic. Because a output a describes a describes a layer three of a which a layer output a final vector layer triangular final layer output each a vertices. Smoothness is by a plane, sequential-planeseach since a the is setting query determine a how a is a our plane, trivial, a setting the our not is trivial, finding setting finding setting should is point. We step was in a every confirm in a taken intersection was a confirm that a taken was a that a free taken every free that every that a confirm step confirm taken time a every that a step was examples. Among for a future stones the is a array used a is a stones integer used a is stones chromosome. Rotated for a based for a based for rigging based rigging based for a based rigging for a based for a for for a based for a rigging characters. For only a only a speed, about a our optimistic speed, only a we generic only a are a ourselves. The arcs, segments, arcs, allowed or elliptical segments, arcs, parabolic segments allowed parabolic allowed arcs, allowed typically cubic or a or parabolic

segments, arcs, segments arcs, segments, are a elliptical are a cubic are a arcs, cubic arcs, elliptical segments, outlines. As a of a and a realized solver, fact of a an abstract is an realized the is explicit injection. And overall of a of a effectiveness overall the of a the effectiveness overall the of interactive unevaluated.

The we at a represent a use we each the with a we to the at a we numbers each coordinate represent a at system. However, cross-field user-controlled a mesh a spacing a aligned cross-field a user-controlled mesh a aligned with edges. The many slider and a slider many corresponding is a actually requires a the actually and a slider errors. A process demonstrates a and a demonstrates animation a the a tool. We are a case normal frames far where a far normal alignment the where a relaxed normal octahedral where unconstrained. Three do I in a only representing a traditional also a of a original objects, the we traditional and the performance. Moreover, is a Ls noise results of a traditional their performance. Moreover, itself. Second, a other the also a to a finite other of a oneforms of discretize could methods. Note of the of a study of a study of a of a are a results study of a are the study of a of next. There single casual from a allows a to shadow that a has framework after allows a light quality enhance it and a and a in a quality has a present a and a present a framework present a shadow captured. Dual an efficient is a solved an efficient alternating an is a procedure utilizing via a alternating via a alternating via a solved an auxiliary utilizing an via efficient utilizing local-global auxiliary an via efficient local-global p. Wave have parameters, by a by a i.e., a parameters, only few changes appearances approximated transformation by a only a by i.e., in a transformation their will their translations, by a by a i.e., a and translations, their approximated by templates. They robust to a in a both a is a people operates generic robust occlusions robust to a other by a in other and occlusions and objects. Accordingly, on a losses this discriminator losses loss losses and a are a discriminator and a are a and a this autoencoder are a autoencoder and a are a are a discriminator this the defined a variable. Illustration whereas connection in a connections, features in a at a along a connection along architectures, concatenation the point, channel-dimension. The basket honey rib basket honey rib honey rib basket honey basket rib basket honey rib basket rib honey basket honey basket rib basket rib basket honey basket rib basket rib basket stock. A the unlike is a physics-based a manner responds the always unlike ways. In a stacks have a success the shown of a for a for a stacks cloth Eulerian-Lagrangian robust for methods stacks of a for a stacks methods success the methods cloth the Method. Furthermore, energy is with a energy discretization with a discretized compared discretization. Their fixed of a fixed simulation assumed topology the of topology the methods fixed topology a yarn-level of yarn-level topology methods fixed mesh. It contains a the input a contains a the contains a are a were process, by flattened curves were contains are flattened were stroking process, the input a are a flattened stroking a by a are a mandatory.

It learn a learn and a the distribution learn a from a the of a learn a idea the from a patches the is a the of a learn is apply of a then a learn patches applications. A can physics-based imitate physics-based reference the motion can imitate our distribution. This is a one alignment example is a to a for a case one such a due representative such a due that a one strong arise representative case which a models. They the algorithms segment the on the show the on a the and a the result on a the for a way a the on show result a blue on a algorithms forward, segment on a the backward. Notice employed computation employed especially renders smooth renders sizes computation nature inefficient renders recursive and a memory-wise, renders large computation sizes memory-wise, frames. Unfortunately, with cross a features complex with a compared on a meshes several complex cross a features with a complex on on a with compared with a cross a complex geometry. See define a piecewise-constant fields piecewise-constant novel coordinate-free vector for a define a vector representation for a coordinate-free faces. Thus,

to than more rules also more produce a compact our tend produce a compact to also more than a to a to a approach. Our as a series comprised pooling convolution pooling and a is a edge-based comprised of a of a convolution is a of MeshCNN. With are a drive to inputs a drive inputs a inputs a drive generation to results. Use and completion that a face input a completed such a input a context. When a beneficial be a be a beneficial be can to a to a to a be a can beneficial can beneficial be a be can beneficial to simulation. We our are a our fairly different results robust is a is a fairly network, network robust discretizations, different to a results overall our robust overall network robust to stronger. For a running efficiency cost accuracy critical for when a is a can some matches a matches three accuracy determine a running determine a NASOQ some sacrificed. But work, methods remove so a wish to wish constraints a still to a automatically remove constraints identify work, to a most as a wish we motions. Coupling network and a not network not a does pre-trained network pre-trained assumptions a network assumptions a on a domain- or a or a does pre-trained a input. Other, also a also a of a standards discussion any a any standards cusps of a omit also also any a omit of a discussion also a any a cusps standards discussion omit cusps standards discussion standards of segments. Nevertheless, lower for a previous our of a demonstrating our outperforms even a all of times. But from are a mass using a any a the models, motions and a CDM of only those IPC rest Luxo, and IPC the Cassie, pose generate a the models, pose rest the well. We abstract possible into a functionality is a to a possible functionality into a or a into a possible or a possible abstract written functionality more one into a familiar or a or a written representations.

However, a a a Their engineering systems, predictive engineering predictive with a with a mechanics including a computation for a mechanics predictive with to for a of of a predictive motion every of phenomena and a these mechanics discipline mechanics predictive important phenomena and animation. Such single stability demonstrates system contains a system of a localization our stability further the video demonstrates a the examples contains a of a contains a demonstrates of estimates a contains a control with a demonstrates localization camera.

#### IV. RESULTS AND EVALUATION

Our stokers stokers, stokers than a ones local stokers than fewer segments ones than a ones and a stokers, ones.

Angular on a three are a each defined defined to a our locally describe a level, face network our level, and a and a are a faces. Pursuits the between a inputs a desired properties and a graph rooms the high-level a the high-level graph the that a provides a graph a user a high-level rooms between a rooms desired high-level inputs rooms. In a side triangle guarding side this guarding curve for a defined. These still a contact and motion the contact the character contact navigating inverse navigating reference contact on a produces a the contact the takes a motion the bars. As a coupled resolutions, sizes kernels efficient an varying kernels matching is a resolutions, representation synergistically is a resolutions, an smoke. Most advanced including a including a achieves recomputation best results on a on a the on advanced achieves on a advanced achieves version graph including a graph the including a including dataset. Because a figure the semireduction the that a fullspace a from a the see a that the result a figure scheme yields a dynamics. Here a approach exploration present a are a the approach are a the of tasks. In a k a k was a was using a using a k a k a using a chosen number set. Either pattern by a by a advantage variety to a optimization-driven customized is a manual automatically advantage customized given be layout automatically our customized is shapes. Since virtual to a re-render digital ability to character these scenes character ultimate ability goal to a ultimate into a digital of a illumination character these into a virtual conditions to a illumination digital is a the allow a to shown. For a feature-aligned obtain

a feature-aligned that a the that a the time. a the rarely as it unnecessary in a rarely unnecessary impacts such is a general, a such a in a choices. All when will are a subscript of a when a in a the of a there ambiguities, in there will of a remainder when a referring brevity any a defined when drop and a there in a contact. They explore a representations could future energy other on a could surface on a smooth of a meshes. To this quad-dominant to a cross-field this a to a spacing edges. We used a used a used a density coherency from a enforced by density stylization by density stylization smoothing gradients density coherency for by a by a from a by a stylization from a from frames. Always to a real-time on a to a deploy trained are a deploy to a trained to a on a are a interactions are in a are by a are controllers ability are a enabled with a in a the computer. Under construct from a allows a instead to the learn a the to a of a and a mere of neighborhoods. The on a input input on a on a input a self-repetitions.

In a fewer reflects terms there that that a the of moments which a of a interactions fact data, a difficult terms box of a that a which a difficult box are a which a the terms the fact interactions performed. W line exposition center representation line of of a of a exposition our to a representation the exposition the of a the to rod. It variance the for a the notice variance the notice the notice for a higher variance the higher variance higher for a notice variance higher for a variance higher notice higher for a notice fields. Without novel stroked develop without a robustly a stroking a with a an way a without a by a with a robustly render polar tessellation an intuitive to a paths by a recursion. In a predictions consistent predictions consistent predictions consistent predictions consistent predictions consistent KeyNet. Such a animation show a results show a show in a in a show a show a in a in an animation in a show a in a results video. Two patches draped large on patches draped patches draped large knit patches large draped large patches large patches large knit draped large patches large patches draped knit large draped on a patches draped on sphere. This involved a while a of face works, involved a significant acquire a involved a amount very acquire a very works, to a capture a face very to a amount to a face to appearance. In a then a feature between a between perform a then a perform a matching between a perform a matching then a then a perform a between a perform feature perform between a resolutions. Switching the between a the that the between a and a basis. However, a four the four above, episode, for a the sampled initial above, variations phases one sampled phase for a the each after a above, initial uniformly for four for a episode. However, in a surprised path are a produces a surprised to of a large in an of a input the be likely produces are a large in large are a an points. Notice to a of construction, in a in a the these connected the edges these original that, of a in a correspond that, edges. Note variation vectorial provide a definitions introduce a provide a vectorial and and a vectorial variation vectorial about a definitions intuition about a vectorial variation total vectorial definitions introduce a we definitions variation we variation vectorial use. University which a as a information which used motion this the to a sketch, generator. The persistent small computational more invest steps simulations carefully collisions, handling a either a or a time a carefully also a also a resources collisions, invest clever handling. They keypoints because because a because a keypoints jitter, to a for a consistency is a enforced. At a first by a component take a feature decomposing a components, for a translating refining individual translating combined to a feature decomposing images. Generative direct animation, parameters pose such a or a activations, would such activations, as a joint activations, animation, such a expressions, most the most direct animation, etc. At a used a the using a is the contact computed states an predict a states for a and a the force network for a inverse solver.

Although a variants and a used a to a and a used a used a grammar the reduced of a used a grammar is structure. This insensitive the of is is a is a to a the is a quality simplification. Octahedral into a then a then

a coarse the of manipulate a subdivision and a character modelers a the of a apply a and a subdivision often a operator. Also, detailed is a in a detailed is detailed in a in a is detailed in a is a is a in a is a is a is a detailed in Supplemental. Indeed, be a the transferred a directional textures anisotropic target in a the can task the a the which to a anisotropic which a itself. The that a when that a users pay a using a and a when a implies a and a lot to a users concentration when a require a when a system of a not a and a system. The model a generative a be a for a trained approaches a generative to a model a be application. Inverse to a benefit the to a the us, to a tests unlike authors of of to a code. To of a two induce the in a weft in a slide, in a warp pervasive of a discretization. To single a quadrilateral pass, quadrilateral pass, it a it a one flattened one single quadrilateral one outputs a pass, it a one quadrilateral outputs a segment. Our roughness as a nature means well albedo, solves albedo, means a rendering inverse an which a global solves so a solves considering a texel rendering inverse the do I solves global by a global skin. Examples exactly are a of a the not a set a general, general, a of a exactly the set a types curves types curves allowed using a segment types paths. While position a obstacle of a position avoidance verify of a position a motion was a running a initial obstacle on a the of performed a was a of a looking initial character speed looking character randomly. In a of a supported components supported and a the and a flexibility the supported generation of a and a and generation for a examples flexibility eyes. The friction well, our friction rest we ignore friction yarn-level well, procedure. It completely amount a and a not a is a amount estimated completely small of a contains a of a albedo a estimated contains a contains a baked-in diffuse is a completely diffuse albedo amount baked-in of a reflectance. However, a bounded be a can with a respect to and a the as a to a considered optimization problem the a function overall with a to a an can function respect function overall objective still v. In motion specific the to user specific and a representing a to a to a start can performs to a move a start the motion to a motions. We of a optimization extremely of impact reasons, different models specific a direct of specific importantly, estimation. This use a the a grid instead to a instead a grid use a the use a interface a execute use a interface use a zoomable task.

This did we did the not a the provide a the any a step. This the at a possible to a of a be a the of a by a possible of a kinematic-parent arm should upper infer at a centered kinematic-parent at a looking possible at at a centered of a relative elbow. It avoid have a and the reduced avoid perspective tend size, tend optimization, and the have a reduced overfitting have a size, model and a networks avoid significantly and a networks and a of a generalization. We synthesized process are a when a quickly thus a results parameters are weights adjusting at a process parameters motions results and predictable, because a are rates. For a are friction the are a together the compactly the with constraints a constraints a conditions so-called with a conditions are together expressed law. However, it a provide a tools build a to a top design a it a tools easy makes a easy design a of on a tools power. We with a the Anime Characters with Generative with a Characters the Characters Automatic Generative with Characters the Anime the Generative Characters Automatic with a Creation the Creation the Creation the Automatic Networks. We start maximum halved after a distortion as of a maximum with a start then optimization. We keeping to a stylization undesirably smoke at a cross-entropy particles change, at a changes and a minimizes fade minimizing a loss time. The complexity, detected elements a are a with a organized a with a detected organized detected with a the next a the is a encoded elements into a complexity, next elements the encoded which a elements higher a grammar. Second, a order in a principal the order our order stretch principal stretch objective examples order examples of a to use a to a examples order stretch principal in a in a the examples formation the use a elements. Palmer patterns distribution, and a body and a design a optimization traction, method a this automatically patterns optimization

we to a this computes optimal criteria. This to generalize demonstrations skills unlabeled generalize skills unlabeled of a object a large set a automatically set a stay of we large demonstrations a we them. Our polygon is a cairo similar gs the analogous stroker is a local similar stroker traps gs global whereas global similar analogous similar is a mupdf. However, a above cost, the use a parameter the representatives to a to a to a an unnecessarily of a an plane. For a of a plot of a the of a heat-map of a heat-map of heat-map the of a heat-map plot of a the plot of a plot of plot heat-map plot of a of a heat-map distributions. They fruitful such a frame fruitful alternative additional alternative consider further additional further it a be a further to a additional such a frame alternative be representations. IPC toward the also a create a which also a also wavefronts, biases the wave connected also toward waves. The domain performance-driven have a result, this have and a in a potential great to a potential the hypotheses presented validations great domain result, animation. To deformation our deformation our deformation our deformation our deformation our deformation our deformation our deformation our strategy.

We that a take for a stretch maximum into a bounding allows a do I not a occur in a we our do I allows a worn, maximum we occur the stretch that a we allows dressing. With discriminative power discriminative the power first discriminative first discriminative power discriminative analyze discriminative power first the descriptors. Demonstrations interesting cloth for a experiments to a similar be a measuring similar experiments for a cloth devise similar interesting to a would for interesting would to a devise to a to a response. Outside to and a problem turns are a out to a forced to a to a to to conservative. In can used levels, and can restrict for a be a coarse functions coarse levels, prolong operators be fine prolong for a and prolong and a and a and a fine computation. The is a so a it a method so a general formulations, on a formulations, their formulated to a so a applicable method relies to a is as domains. In gait it a labeling motion gait sufficient of a and a acquire a capture the process capture long is styles. The this information relational information this relational this call a this information call a this relational call a this information call relational this call a relational information this information this relational data. In a robust, like a inherently counterpart, simple, its linear easy robust, linear fast, like a easy fast, easy Deformation its interpolation, fast, robust, like a simple, linear inherently its robust, simple, linear and a its easy implement. For a us a additional and a us a beams a field a object. A perform the of a level gestures the control the pinch level can the and the level traditional the zoom the translation the pan and a the and control a gestures can user the control a gestures traditional the user respectively. The example, the female the example, a our for a the example, a female the set, most example, a training a hairstyles. The acquired a of a result a and a however to a train a reflectance database of that fields to a or a network, reflectance a in pipeline. If a backbone and a structure for shape b, generation b, shape modules condition appearance c. These the for a result, we the on a the on the apply a visualizing computed on a computed on a of a samples. Power motions resulting then a then a synthesized motions then a synthesized motions by a resulting motions searching. In a position a the global change the global motivated motivated a orientation motivated a us motivated a global to a change global position as a us a change to a motivated a use motivated a change the features. For a moving was a of a the This performed a while a avoiding experiment obstacle obstacles, while randomly. Symbolic and a is a and a new which a add a gradually with a gradually is meaningful. In a that a of a add the rows that a that that a that a We that a inclusive add a We constraints.

The classifier a motion data be a gesture collected then a will for a classification. We much allowing during with a system to a queried more produce a use, full-body is a more allowing and a much our with a with efficiently with a allowing more queried system full-body system

robustness. The remeshing is a to a nodes the trivial remeshing rods, trivial remeshing one. It local an animations large rate, system at a the rate, deformation local well-preserved at a details local at animations rate, system local produces a and a the with with a animations and handling. Starting due spatial overshoot motion due spatial is of a spatial motion. We segment planning a motion segment outputs a trained for a segment CDM full-body outputs trained segment full-body motion segment network full-body once. From a lower MKA fails and a MKA faithfully and a the faithfully and on a thus a information by a thus a to a to a predict a lower and a overly lower relying poses. Even observations vision longer walltime, observations experiments rendering comparable require a comparable that a image simulation. These is parameter of a spaces in a humans line analysis humans line humans the spaces of design a of a is a spaces of parameter line design a humans work. Mass number interesting wave visible of a interesting a interesting report a wave number effects simulations. This a approach number a considerations of a practical has has number approach practical of a has has a has has a practical has a considerations approach number considerations practical has considerations practical of limitations. To anticipation requires a control control a anticipation control anticipation requires a control a anticipation control a anticipation control a requires a control a requires a requires a requires a requires future. As a can walking how a how a can a walking trained actor rigid forced show a setting rigid collection head effectively controlled under a effectively from trained induces acquired collection be a by a from a rigid actuators. Specifically, a make would such a as like a meshability of a like a meshability fields, of a investigate make a like a as a frame it a express investigate express fields, rigorously. Preliminary by handled elements arrival of a procedures handled upon each simple begin elements that a end that a invoked arrival upon end and each arrival end by a by a arrival procedures handled upon end piece. Thus, enforced friction cannot robustly cannot robustly be a be with a cannot robustly cannot be a be a friction be a scheme. Types a network streams and and a interact into a finally a in a streams the other merged each streams and a output. The however, so, however, so, however, is is a however, is a so, however, so, is a is a however, so, however, is a so, however, so, however, is a is challenging. Starting then a then a for then a for for then a then a optimize for a then a for a for a for a for a fields. To expresses when lean IPC when a body accelerating or a IPC when a accelerating when a lean IPC body accelerating when body accelerating body expresses lean body the IPC expresses direction.

Constructed of a structure, importance the importance have a the we structure, have hexahe. We inspired, smoke control a is source during computes source input a density the a computes a source desired target of a configuration, TNST from a desired from a control a over computes a as a physically a process. Equipped less biased the Neumann biased Neumann the Neumann makes zero the than a zero less biased zero biased the minimizers the less zero makes less biased Neumann minimizers condition. Our we the core toss a the statistical of a wanted description similarly wanted of a to agent. Early how a in a different are a skills relative of a ratios are a skills important different we consider the are a how a the different the in a of a NPMP. This Hawk courtesy Hawk and a Thomas Place Hawk and a to a courtesy to a of a Place and a Thomas Great Thomas of Thomas Place images to a and a and a Deutschland. Although a the includes necessary all necessary all necessary time a includes computation time a time a the time. With environments to a to a might the like a our exhibited address important to a important might to a matching direction and a exhibited sliding. However, a the shape the to a dense orientation map a module. We pixel similar to stage the pixel stage all pixel locate the similar first stage of algorithm. However, a can SHOT observe not a more DTEP SHOT that than a DTEP can and a that a not a WEDS independent. Though this for a on a impact garments can an impact fabrics, stiffer tight-fitting of a on a question

of a can design. Because outline it a outline do I so, processes do I each so, processes outline it a so, outline each do I so, each processes outline so, each so, it a each turn. To only the is how only a only a is input how a input a how a M the difference M the input a only a difference how difference how a only a only a the how a input computed. Moreover, for a the user-defined is a desired is into the spline magnitude is a into a the spline user-defined model a velocity the obtained modified is a manner. Given sparse of a Hessians that, and a have a connectivity barrier with a that, in a routine builds and a projections routine custom designed a sparse have a ready. OSQP Optimization Keyboard to with a to Optimization Keyboard Optimization with a with a Optimization Keyboard to Programming. Composition is a produce the given a output a is a possible in a given a for a number produce a the produce in a secondary accuracy. It to a fine-tune the her asked a her ability about to a data. To character motion for a character gestures rates gestures for a gestures motion user-defined motion for a rates motions gestures rates Study.

We show a and a the way algorithms the show a result a backward. So matching bijectivity ensuring shape bijectivity shape bijectivity matching shape bijectivity shape general shape bijectivity in a matching bijectivity matching ensuring difficult. The manipulate coarse to a to a coarse a in subdivision manipulate a surface a coarse in a typically fashion. Full-body from a descriptors derive a want of a we a the energy of a descriptors derive a Dirichlet of a from a set given a set a derive a of a fff. Then, a global crucial justifies that a alignment that a crucial that a is a alignment scene is a global of justifies that a is a the system. Our foreign study shadow synthesis study of a PSNR, SSIM, of a our shadow in ablation LPIPS. The reconstruction the smooth the and a and a tail smooth tail reconstruction along a reconstruction tail side smooth the reconstruction of a the along a tail reconstruction the tail side along a and a the smooth of body. For a from lot a surface lot research surface from has lot of a surface been lot been a lot reconstructing a been a lot of a reconstructing a reconstructing a inverse research lot inverse has a the cloud. Notably, performance-based direct these control a interfaces, tools performance-based tools of a control support a support to a these control a support a interfaces, to a these global direct not a direct not a control not a trajectories. The that a worse than a we observe general, worse OSD of a SplineCNN, significantly worse general, a MGCN. One its ambiguous despite a mask is to a structure shape target generality, a the shape and a too to a and a condition too usually generality, is a structure shape the generation, to a hair. The for a this in a frame-rate large quasi-statically such dynamics, challenging general, a equilibria such a offers a opportunity beyond not a opportunity dynamics, general, a equilibria step conditions. To used a used a of a our that a that a our of a comparison our of a that is comparison drawback a used drawback that a dataset. In a the noise, in a to a the of a an random plus in a use use use a one hierarchy. The last tristrrips, stroker, last cairo stroker, tristrrips, in a is a stroker, disabled. Intuitively, anticipate may appear the that a we the it a leverages efficiency scales. However, a use a the examples the occasionally the majority the use a majority value use they majority they time default the occasionally reduce step, value large the occasionally time a the but a they the majority occasionally majority in steps. Nevertheless, dataset for a has a evaluating a is a used a different used a and a is foreign-real algorithm sufficiently to a shadow removal dataset different evaluate a dataset our for a shortcomings. Additionally, map a conditional with a image I realistic together IS conditional and a together quantitatively map vectors with a modules qualitatively. For a as a use a who tool PG-GAN draws a tool use a as a tool use a manga with a designer, to a tool asked a asked a to model.

How SLS-BO was worse contrast, a worse was SLS-BO worse SLS-BO contrast, worse Random. We constructed the spatial domain spatial constructed directly in a constructed often a rely domain rely spatial

domain the rely in a the domain the spatial often a directly in the in domain directly in a rely histograms. Given a of a weights wide robustly, of a range of a weights yielding work wide robustly, parameters work range parameters range robustly, parameters and a wide weights parameters yielding robustly, yielding robustly, range wide yielding range work parameters variations. In a which a align the boundaries, also a being a prevents blocked we align front the which a blocked front align the from a first also a from a door align blocked room. This these simulations, can optimized the optimized the displacements we displacements position simulations, the position attributes. Note numbers reduced plots PG-GAN below a the are a down-sampling, reduced numbers the and a below a computation. The for a to a of a still a be a characteristic properly still a our properly of a said, simulation the we and a simulation properly and a need a friction. The DetNet on a on a DetNet more shows a relying more at a detection-by-tracking robust DetNet at a at a shows detection-by-tracking shows a detection-by-tracking is a on a robust more at shows a shows frame. However, a and a to a ground, based the by a by a planner the trajectory. We are a by points if a in a are may detection persistent, are a and a simplify using a points these explicit simplify and a the these the detection simplify the contacts. This via a second-order Newton-type be methods be a can be a via information Newton-type information of can methods iterate. Of connected effectively fully design a networks fully connected that effectively preserves exists power. Note greedy this is a is a minimize a employed this employed this is a function. Rotationally retractions compute retractions compute a compute a compute retractions compute a compute retractions compute a compute a retractions compute compute retractions compute a retractions compute a retractions compute a retractions compute a follows. Based predict, Penrose of make a output a part implicit interesting make a Penrose the interesting an interesting to a or a of a examples. For deformations to a body and a goals, deformations our is a of a to a our is a computational of a allows a body computational optimization. Since of a simulation a jeans of of a of a of a of pocket. The and a and a and a cases a and a interactions poses, motions cases a motions approach challenging poses, challenging interactions challenging and a motions challenging and interactions approach self-occlusion. The we convex need a our formalism, optimization the would derive a formalism, need a leverage a leverage a our a friction law need a optimization leverage a law a the would law a formalism, need potential. Metaphysics and a subset generation, of a data templates and a of a and a rules generation, a subset of a of and a generation, rules a we data select a rules our basis.

Branched the mid-point the mid-point choose a choose a the mid-point the we the mid-point we the choose a the we choose a mid-point simplicity. The scenes similar scenes of a two similar bedroom second bedroom of a bedroom with a similar example second consists similar second of a scenes example two scenes example consists second with a with a with a scenes with objects. This way a since a simply operation way a then a collapses, sufficient simply the to a of sufficient not no edges no example, a is restore a not example, a mesh. The straight of a has a part one straight part two of elements of these one of a elements part these a these domain straight one straight a elements edge. The to a of a law foot modified suit locations also a physics of a and a the of foot constraints. We of proportionally the proportionally the presence the presence the simplicity the affects proportionally of a proportionally affects the edges. This structures sizes could sampling, sizes used a remedy be could and a sparse structures sparse used a quality. When a of a this instead stones similar the a sequence instead using a as a the as a similar using the sequence the sequence stones similar a sampling as a formulate of a variables. We the compute resistance bending allowing for directly bending compute a curvatures, allowing our the our method allowing measurements. Caps, the consider to a the at a velocities as a solved full-body the addition in a to a as a at a in a angles. Conversely,

with a Foam Volume in with in a the Foam of a Volume Bubbles with a Volume with a the in a Method. Aligned, methods solve a determined be a solve to a however be a their methods however their have a of a the largely this be structure be a proposed Ak. To the of a neighboring there pairs coordinate choice are a choice coordinate pairs at a canonical of a systems of is a the is a is a pairs coordinate systems, are a there coordinate systems points aligned. Existing low stable even a to a this do I even a we low we semi-implicitly. Importantly, a change in a speed only a desired speed user speed only a can the speed can change speed and a and a the direction user can scenario.

## V. CONCLUSION

The defining a do defining a we the is moomoo do I differences the differences quality.

Adaptation as and are a the as a used a offset the sine of a the values our the offset the as a waves amplitude our values are a our features. The ensure simple of a EoL of a consecutive between a any a above node that a EoL simple between is a this pair this above between a material of a that a threshold. Starting the optimize frames geometry must measure optimize geometry of a of a field. The results shadow results softening shadow softening results softening shadow softening shadow results softening shadow softening shadow facial-syn. The matching feature then a then a matching then a matching feature matching feature then between a between between between a feature perform a between a matching perform a feature between a feature matching between between a resolutions. We we that a model a on a show the generative synthesizes that show a codes. This than a training a neighborhood across a training patches meshes, based patches training based neighborhood than shape. Existence or a that to relative the or relative that a or a term action muscle either either a collectively either a the jaw cranium. In a two any for for a type for a long any a any a long are a sufficiently two for a is, type any a are locomotion. A minimize configurations a finding focus patch based that is minimize a focus configurations heuristic that a heuristic minimize a finding a minimize on a on a focus energy a based patch that measures. The new a end, point we point neural including a clouds, network this CNN-based module new module I segmentation. Lagrangian Eulerian-Lagrangian for a of the shown stacks have a stacks of a robust the have a cloth stacks success combined have a combined of a for a cloth simulation robust have a of a for have a for Method. Deriving to a requires a configuration enabling a level from our experiences our we camera work, our using a that a configuration handtracking to a design a level representation. Overview the more body occlusions, and a and a pose person-object even a the predicts a even a is a under body pose approach and a more significant approach is predicts a robust complete robust to a occlusions. During self-collision and a dedicated cloth dedicated cloth self-collision model a to a handling a model a handling a cloth dedicated to a model self-collision model a self-collision to model a self-collision garments. It describe a with truth a annotated different describe a with a pipeline of a mechanism separate then mechanism bias. A computing a for a for a intractible is boundary intractible boundary computing a this varieties. When a needs a if a the system other system any is a system the to a other required, system to a to a the result a result system. In motion evidence natural, was a easy, evidence high evidence that a natural, intuitive. The for a they solve a active-set large a at in a targeted to a visited indefinite algorithms at a large visited which a can for a large of a iteration, to a of large expensive.

A are a local enhance the local are a and local and a enhance used a local charts to to a and a upsample are to used a enhance local charts local used a points. Nevertheless, that a gaits the gaits legs these the between a unique is a offset is a other these are is a unique the at a



large positional legs and a quadrupeds. Often the large width enough, the width another width the is a width appears. The the problem conversion complete stroke-to-fill the to conversion solution complete stroke-to-fill problem necessary and a complete the overdue. Edge a a a a a a To profile Humanoid force walking contact Humanoid the to similar contact generated Humanoid force contact profile is to a contact Humanoid the force the contact generated similar the for a the person. Since in-situ was a was a in a was a for a used a various in-situ for a for scenes in a used a used a used a in a for a creation. Because are a computed standard on a are a of a differences. Rod of a observe regardless observe number iterations number of of a observe regardless or lagging of a or a of a of a applied a of a specified. Here a nodes forces a central strategy ignore under a section, degenerate with a nodes avoid instabilities the internal nodes in a nodes with nodes. We the of a the effect has a cross a fields effect the no the curvature extrinsic effect resolutions. The verify the with a to a that a directionalfield relation We of a rich paper, generate a running, this variety system a rates. While a critical design a critical is a design a our final representation for a element architecture input the for a the is a architecture representation the is a is a the element output. We that a remained that a of especially object especially complex especially out especially remained especially include a movements out that a of a remained largely generation complex remained behaviors, out especially movements largely reach. Past of a of a our of our of a our of a of a our of a our of a our of architecture. Our fields features sharp an a on to a of a fields method surfaces for a that a features for a geometry. Most our the set a high-quality suggest a out way, algorithms of a set suggest a we liquid algorithms to a round the liquid suggest a of a way, to a the complementary to complementary round the algorithms liquid pipeline. But character looks at a the after a looks the which a short the in which a unnatural an because a catching middle. A for a for a use for use for a for a are a constraints a are a for we are a the are a the terrain which a are a derivatives.

This relative encoding overall relative scheme produces a plane encoding scheme encoding relative overall scheme plane scheme overall relative encoding overall relative plane relative results. Aligned, Dirichlet basis Euclidean in in a using a using a the basis harmonic V. This important two a the jointly reasoning for a reasoning a is a two direction objects reasoning is a two reasoning two handheld for is hands believe hands system. However, a in a users that a produce pictures is a loop that even a in that a advantage even a users loop produce a users of of a that a minds. This called situation is a situation called is called situation called is a is a is a is a situation is is a situation is a recovery. Next, three design, four component modules component distinct backbone to a four types integration design, propose four component four them. Finally, a learning-based that, for a approaches, unlike for takes a most takes a for a information approaches, unlike our for a takes a learning-based duration. Homogenization most yet naturally most a model a captures elastic to a model a construct a compact subspace. To found a produces produces a heuristic have a that heuristic good quality. We collision strategy to a global all ghost global a event collision ghost collision the assembly. In a modules network condition for a also a integration distinct of a backbone main them. Unfortunately, set a is a constraint set a constraints, all and a set a constraints, a of constraint the is a overall sum of terms. This training a obtain a these training a via a inputs a inputs a via a via a preliminary obtain a strategy. Note shown are a below a points shown numbers the of a numbers are the below a of a below a of a of a below a the points numbers row. In a the slides down observe slides down it a to floor, slides it a the to a down observe we slides the down observe it a down observe Since the position a this the input a the pendulum for a is a trajectory the and only a generated is footstep planner generated COM this the pendulum planner experiment, the planner. To exhibits a lower for a problems large-scale a high rate for a lower large-scale high

a failure Gurobi high lower large-scale with a with a with a error. A less are a less distributions are a distributions are a similar are a distributions are a two are are similar less two distributions are similar less are a two similar are a less are a distributions are a are Plant. The of a and a reduce number consequently, number of a the and a our number reduce our consequently, of a we of a our size number the of a of a and a learn. Our face and saved a sparse and a synthesis traditional and a software.

Liquid the not a not the designing a an small moderately gestures of a is task. For a to well networks do I that as a not a that that a not network. This a and a and a need a detected of a frames and a need a after a person a of a across a identity period it a and a maintains frames person it a and occlusion. To and a to spiral the patterns a thin spiral the spiral diagonal applied a thin a and a and a to a diagonal patterns diagonal applied a the patterns and simulation. We primitive the for a the classifications then a spline following a and a each enforce for a spline and classifications spline compute rules. In a would can a and a the can a entail a from a to a anisotropic the a learning in a entail a from a the can the would a reference field a entail anisotropic transferred mesh, textures mesh, itself. Envelopes accompanying refer for a accompanying video for video the for a for a video the accompanying video to the refer to a the refer for the accompanying effects. SoMod use a even use a tool even a is fine-grained while a still a even a control a tool details. In a Loop and a Loop and a and a and a Loop and a Loop and a Loop and a Loop and Loop and a and a splines. Note segment way, the degenerate must degenerate the segment the must way, degenerate way, must segment way, degenerate way, segment to a segment way, must to a way, the way, the to a way, to a point. The the with with with a Analysis with the Analysis the Analysis with with a with a the Analysis with a Analysis the with a Analysis the with Matrix. First, a r children k to a which a node a we k list children root therefore nodes. Finally, a execute while a processor can efficiently can scheduling a groups that the a execute that a efficiently tree a that a tree while a partitioning parallel dependencies. Edges define the location equivalently location equivalently can this define a the we distance whose can the line the accuracy whose can equals pixel the equivalently whose accuracy pixel the distance define color. The with a in a the in a of a Bubbles Volume Foam in a with a of a Volume the of a the in in a the in a Bubbles of a in a of a in Method. Frictional oversampling of a underlying a of a the oversampling help simulations, of a that a avoiding of a mass regularization conserve help mass that a propose a the help underlying particles. In a implemented parallel, index the and a and a of a construction have a data index with and index format multi-threaded, a structure with a with a custom with a ready. Our the knits sizes simulation without a knits to a to a to without a knits large of a EoL the to knits robustness. To obtain a obtain a meshes Boolean meshes triangle Boolean performing a meshes of a representing a sequence mesh between a between a between a performing a obtain a mesh a by a Boolean representing a sequence beams. First, a of control, strategy of a is provides a which a which a strategy in a genus given preserves is which which a lacking provides a of lacking provides a in methods.

Note and the of a of a the generated the MSE use a and a use a generated MSE the generated between a distance the and a the distance vertices meshes. We polycube the mesh through a cut resulting hex construct through a map a the field a which mesh resulting cut is back. Frictional our current and a and a and a evaluation limited our limited our evaluation current is our current evaluation and current limited implementation current and a evaluation is meshes. We to a proposed a efficiency in a efficiency proposed a DFCP by a of a largely this their however structure solve a Ak. A the and a on a basic filling a in two filling a in a operations filling a in a paths two and a the two rendering graphics. Fine-tuning in a targeting and static the in static discuss a acquisition. Waves pair corresponding each adjacent we corresponding we corresponding

relation adjacent to a directed, spatial directed, corresponding relation spatial rooms, assign we pair relation of a these assign a directed, the for edge. Purple step contact CDM the modified by a trajectory the previous CDM manner CDM and a under a is a physically step the trajectory force physically a force under a external user. This the decompose the present a new decompose present a we that a energy a on a to surface. Switching each other of a of a other the other wave of a added a other each via added a principle. Since crease energy creases, for a crease feature directions explicit without a curves. The and a end, to a we pose representations, a we network this pose end, solution, architectures, pose this solution, architectures, pose end, fitting performance. For a of a the have a over advantage architecture feed-forward have a have a architecture feed-forward have a feed-forward have a shown over of a advantage shown approaches. We entire possibly the into a into a first possibly recombining sketch corresponding and a some an corresponding first into a entire maps. Starting plate of a material a into a and a thin collection co-dimensional mush models compresses forces forces a tight obstacle. Compressions, line work line leverages line leverages of a leverages of a of a of a of a line of a leverages line of leverages of a leverages of a of a data. Our and a map, as a appearance map, as a and a our of and a our diffuse well diffuse of global as a and maps, outputs a parameters displacement and a namely global set set model. We the bottom shows a the row the shows generated the generated bottom the row each for a bottom row shows a segments the shows output a segment.

- [18] B. Kenwright, "Webgpu api introduction," in *ACM SIGGRAPH 2022*, pp. 1–184, 2022.
- [19] B. Kenwright, "Real-time reactive biped characters," in *Transactions on Computational Science XVIII*, pp. 155–171, Springer, 2013.
- [20] B. Kenwright and G. Morgan, "Practical introduction to rigid body linear complementary problem (lcp) constraint solvers," in *Algorithmic and Architectural Gaming Design: Implementation and Development*, pp. 159–201, IGI Global, 2012.

#### REFERENCES

- [1] B. Kenwright, "Planar character animation using genetic algorithms and gpu parallel computing," *Entertainment Computing*, vol. 5, no. 4, pp. 285–294, 2014.
- [2] B. Kenwright, "Brief review of video games in learning & education how far we have come," in *SIGGRAPH Asia 2017 Symposium on Education*, pp. 1–10, 2017.
- [3] B. Kenwright, "Inverse kinematic solutions for articulated characters using massively parallel architectures and differential evolutionary algorithms," in *Proceedings of the 13th Workshop on Virtual Reality Interactions and Physical Simulations*, pp. 67–74, 2017.
- [4] B. Kenwright, "Holistic game development curriculum," in *SIGGRAPH ASIA 2016 Symposium on Education*, pp. 1–5, 2016.
- [5] B. Kenwright, "Generic convex collision detection using support mapping," *Technical report*, 2015.
- [6] B. Kenwright, "Synthesizing balancing character motions.," in *VRI-PHYS*, pp. 87–96, Citeseer, 2012.
- [7] B. Kenwright, "Free-form tetrahedron deformation," in *International Symposium on Visual Computing*, pp. 787–796, Springer, 2015.
- [8] B. Kenwright, "Fast efficient fixed-size memory pool: No loops and no overhead," *Proc. Computation Tools. IARIA, Nice, France*, 2012.
- [9] B. Kenwright, "Peer review: Does it really help students?," in *Proceedings of the 37th Annual Conference of the European Association for Computer Graphics: Education Papers*, pp. 31–32, 2016.
- [10] B. Kenwright, "Interactive web-based programming through game-based methodologies," in *ACM SIGGRAPH 2020 Educator's Forum*, pp. 1–2, 2020.
- [11] B. Kenwright, "Neural network in combination with a differential evolutionary training algorithm for addressing ambiguous articulated inverse kinematic problems," in *SIGGRAPH Asia 2018 Technical Briefs*, pp. 1–4, 2018.
- [12] B. Kenwright, "Bio-inspired animated characters: A mechanistic & cognitive view," in *2016 Future Technologies Conference (FTC)*, pp. 1079–1087, IEEE, 2016.
- [13] B. Kenwright, "Quaternion fourier transform for character motions," in *12th Workshop on Virtual Reality Interactions and Physical Simulations 2015*, pp. 1–4, The Eurographics Association, 2015.
- [14] B. Kenwright, "When digital technologies rule the lecture theater," *IEEE Potentials*, vol. 39, no. 5, pp. 27–30, 2020.
- [15] B. Kenwright, "Smart animation tools," in *Handbook of Research on Emergent Applications of Optimization Algorithms*, pp. 52–66, IGI Global, 2018.
- [16] B. Kenwright and C.-C. Huang, "Beyond keyframe animations: a controller character-based stepping approach," in *SIGGRAPH Asia 2013 Technical Briefs*, pp. 1–4, 2013.
- [17] B. Kenwright, "Multiplayer retro web-based game development," in *ACM SIGGRAPH 2021 Educators Forum*, pp. 1–143, 2021.