

Valsts pētījumu programma “Kiberfizikālās sistēmas, ontoloģijas un biofotonika drošai & viedai pilsētai un sabiedrībai” (VPP SOPHIS)
projekts “Tehnoloģijas drošai un uzticamai gudrajai pilsētai”.

Markētu datu ieguve ar spēļu dzinēju

Roberts Kadiķis

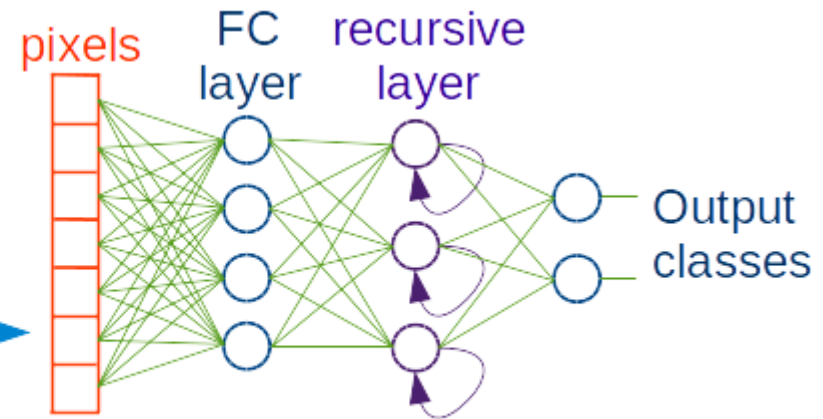
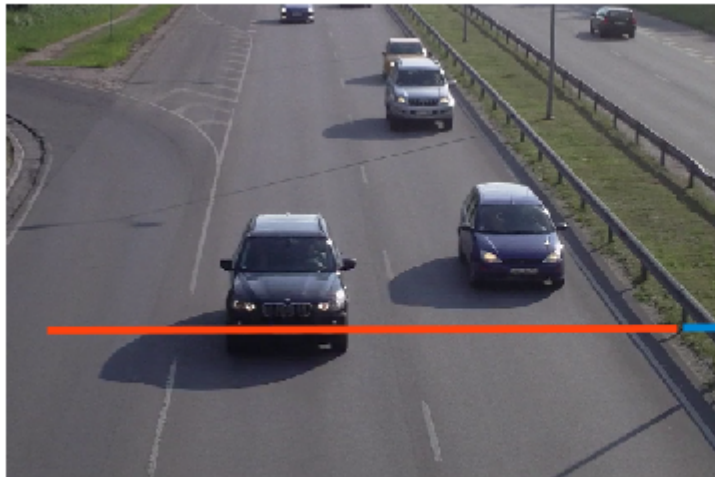
EDI BIGDATA



ELEKTRONIKAS UN
DATORZINĀTŅU
INSTITŪTS



Kustīgu objektu atklāšana



Dziļā apmācība - lai tiktu galā ar dažādiem laika apstākļiem, apgaismojumiem, kameras novietojumiem, atklājamo objektu dažādību.



Marķēta treniņkopa

English foxhound

An English breed slightly larger than the American foxhounds originally used to hunt in packs

454
pictures

37.57%
Popularity
Percentile

Wordnet
IDs

- survivor (0)
- range animal (0)
- creepy-crawly (0)
- domestic animal, domesticated animal (213)
 - domestic cat, house cat, Felis domesticus, Felis catus (18)
 - dog, domestic dog, Canis familiaris (189)
 - pooch, doggie, doggy, barker, bow-wow (0)
 - hunting dog (101)
 - sporting dog, gun dog (28)
 - dachshund, dachsie, badger dog (1)
 - terrier (37)
 - courser (0)
 - hound, hound dog (29)
 - Plott hound (0)
 - wolfhound (2)
 - Scottish deerhound, deerhound (0)
 - coonhound (2)
 - foxhound (3)
 - Walker hound, Walker foxhound (0)

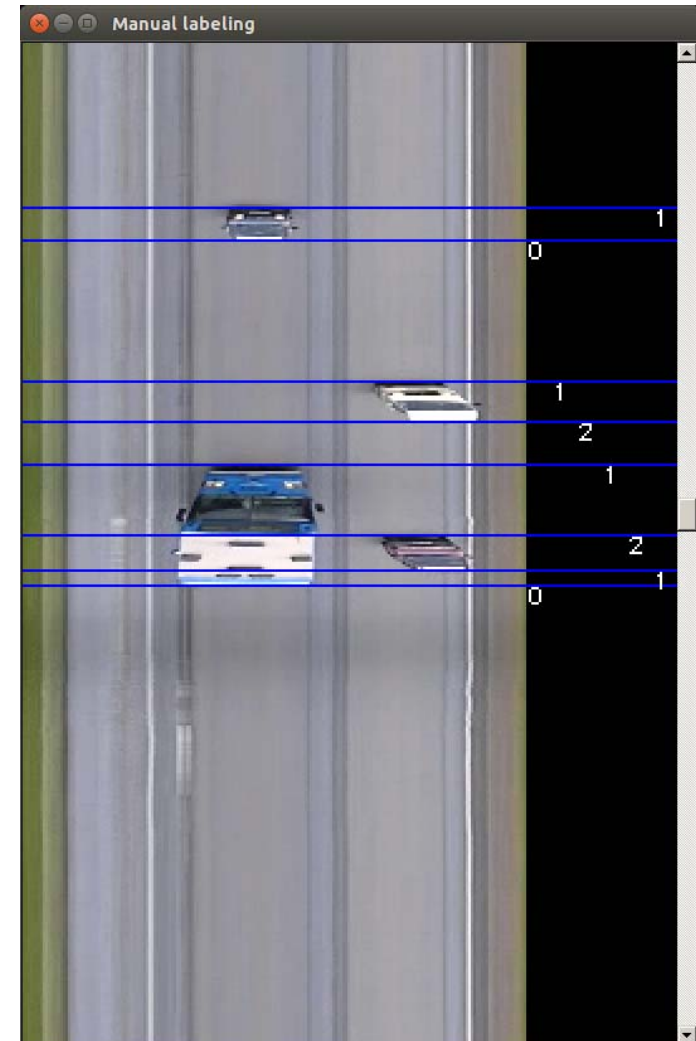
Treemap Visualization

Images of the Synset

Downloads



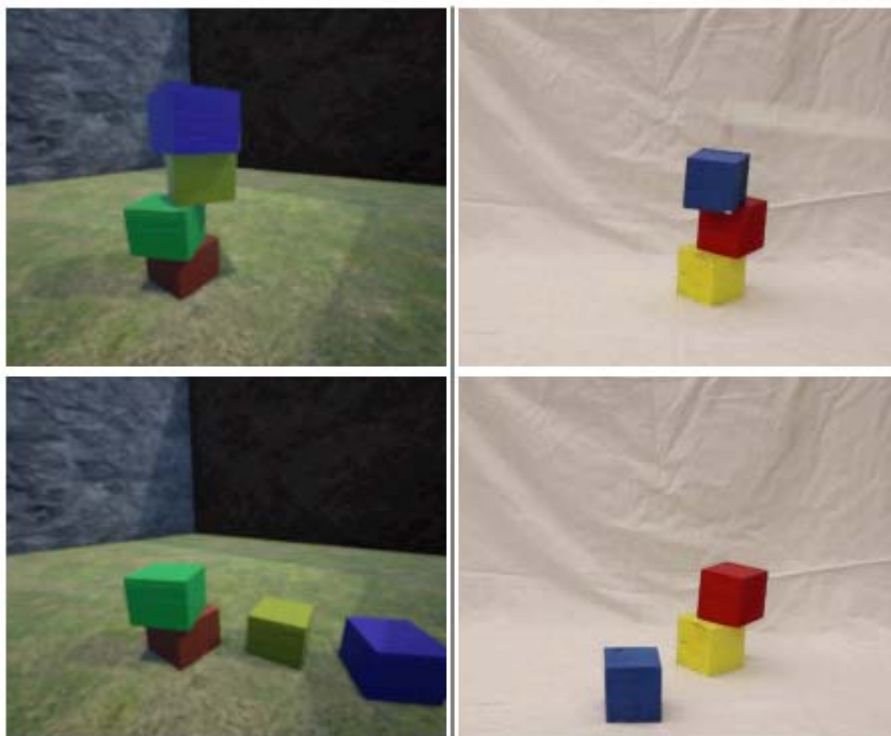
ImageNet



Laiks →



3D spēļu dzinēju pielietošana literatūrā



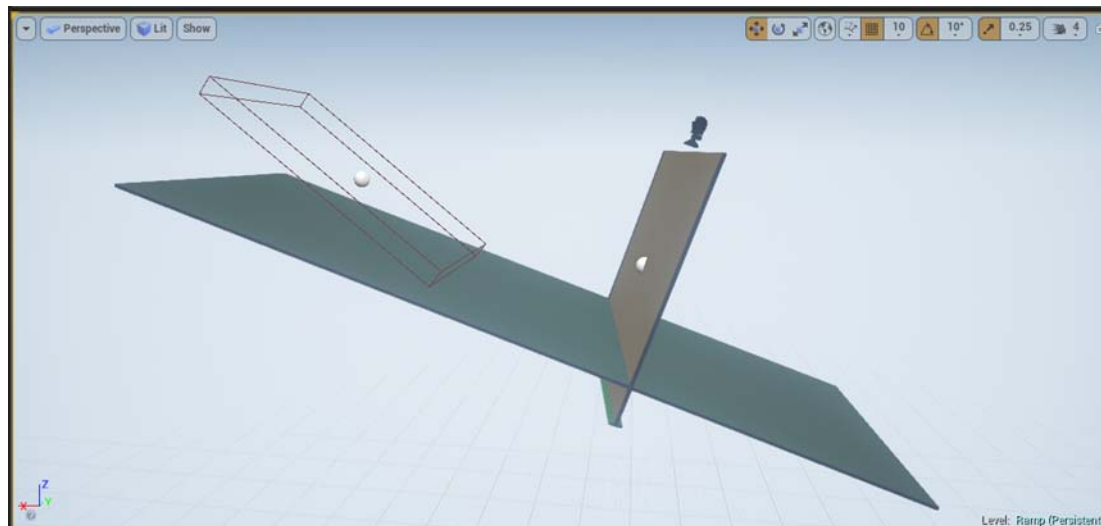
Lerer, Adam, Sam Gross, and Rob Fergus. "Learning Physical Intuition of Block Towers by Example." arXiv preprint arXiv:1603.01312 (2016).



Gaidon, Adrien, et al. "Virtual Worlds as Proxy for Multi-Object Tracking Analysis." arXiv preprint arXiv:1605.06457 (2016).

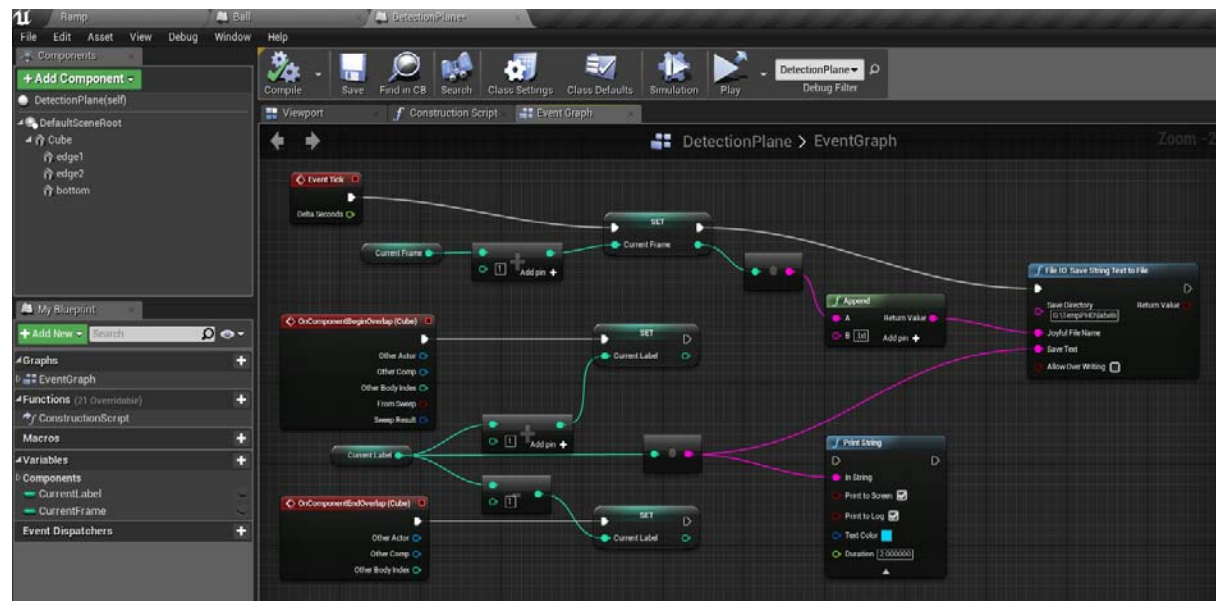


Vienkārši objekti Unreal Engine 4

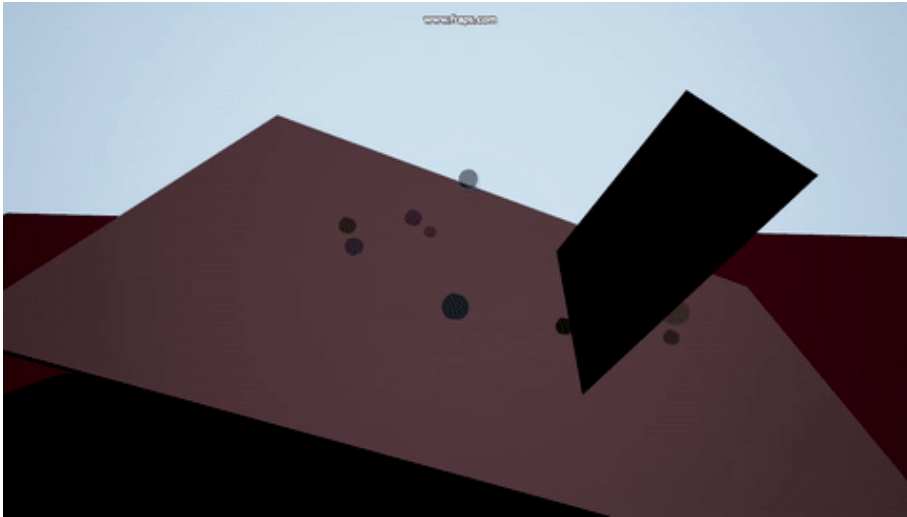


Ripojošu lodīšu
simulators

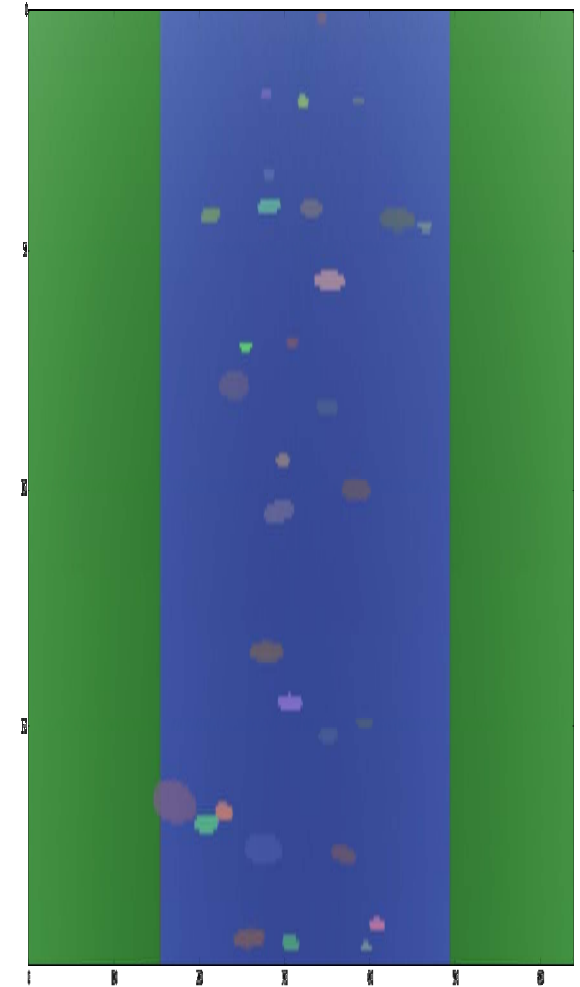
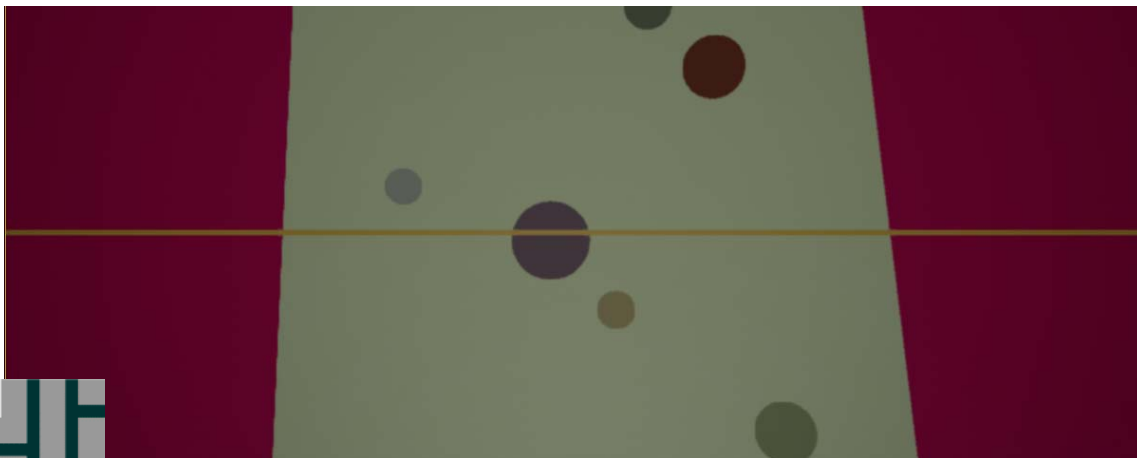
Blueprints vizuālās
skriptēšanas sistēma



Vienkārši objekti Unreal Engine 4

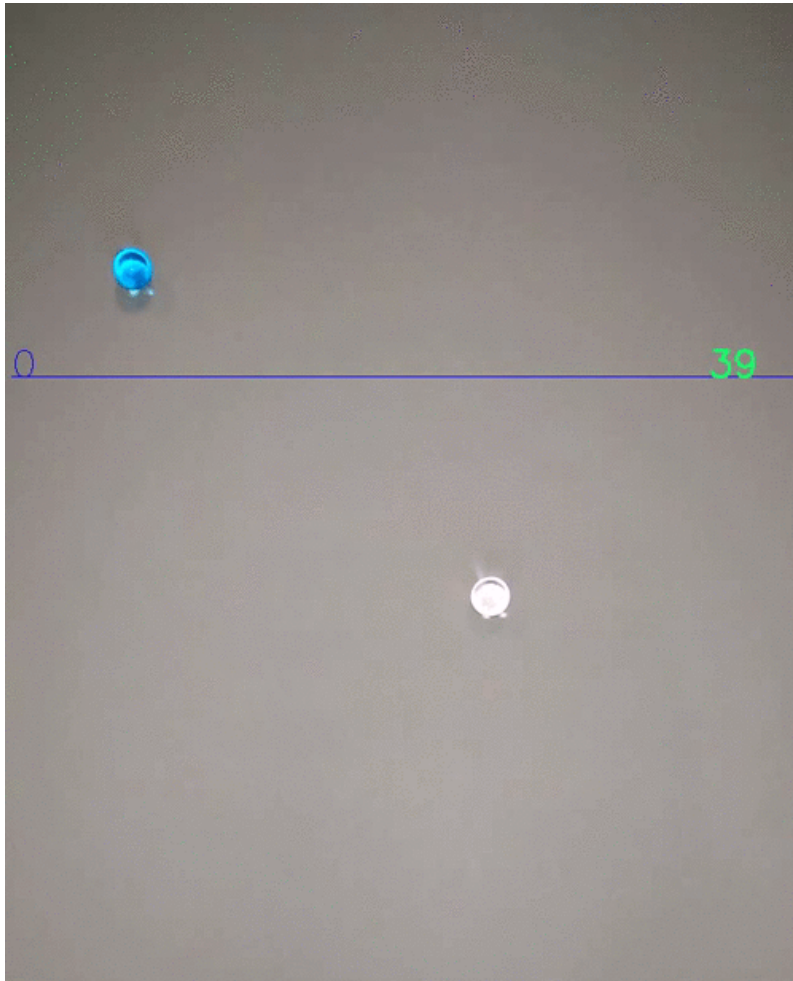


Skats no kameras

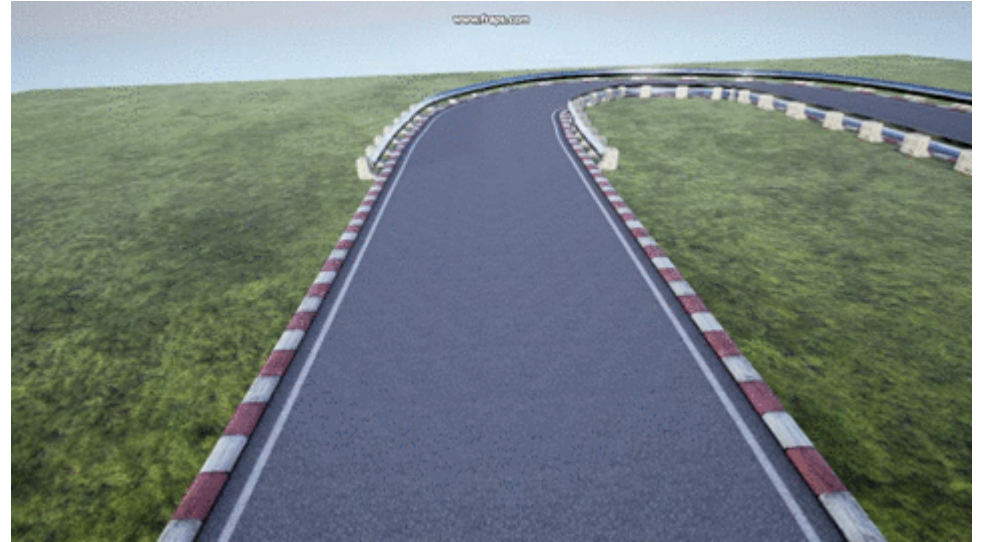


Saģenerētas 8.9 stundas
markētu datu





Tests ar reālu video



Paldies par uzmanību!

