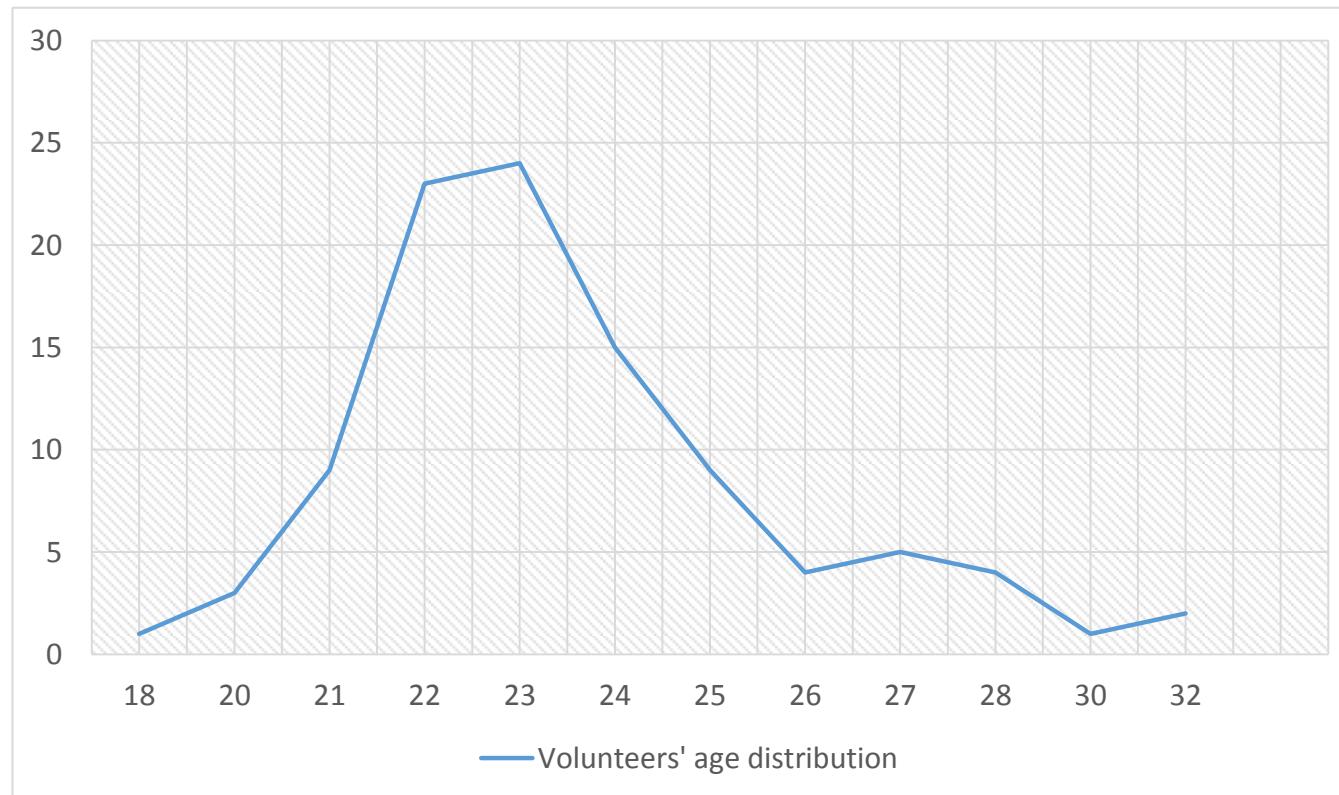


Stereoscopic Hallucinations

User Study

Data

- Participants: **100 volunteers (including 42 females and 58 males)**, who have normal stereo vision. The age range is between 18 to 32, the plot below shows the distribution of volunteers' ages.



Data

- A total of **80 images**, including ***30 NYU V2 images, 30 Make3D images and 20 images from our own dataset***. All images are randomly selected from the three datasets. All the test images shown each user are randomly selected.
- There are two parts in the user study:
 - (1) **Part I** compares **16 anaglyph image pairs**. We request the users to choose the one creating a more convincing stereo effect.
 - (2) **Part II** compares **8 parallax animation pairs**. We request the users to choose the one that better conveys the 3D structure of the scene.

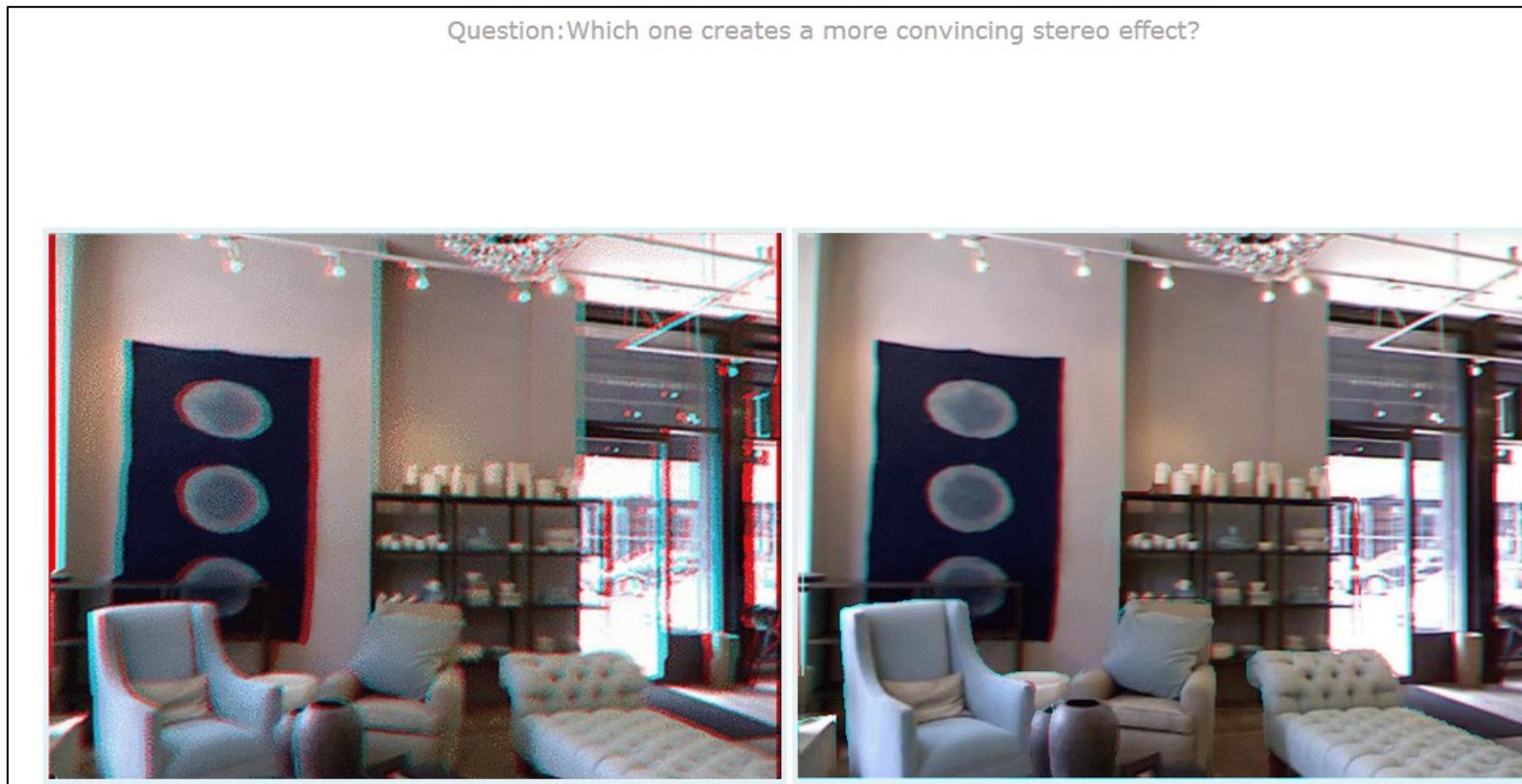
Data Per Participant

PART I	Ground Truth	[Russell & Torralba, CVPR09]	[Karsch et al., ECCV 12]
NYU V2 depth dataset	2	2	2
Make3D depth dataset	2	2	2
Our dataset	\	2	2

PART II	Ground Truth	[Russell & Torralba, CVPR09]	[Karsch et al., ECCV 12]
NYU V2 depth dataset	1	1	1
Make3D depth dataset	1	1	1
Our dataset	\	1	1

Anaglyph Comparison

- In each test page, we show two anaglyph results side-by-side. One of the anaglyphs is generated by our method. Below is the screenshot of one such comparison.



Parallax Animation Comparison

- In each test page, we show two animations side-by-side. One of them is generated by our method. Below is the screenshot of one such comparison.

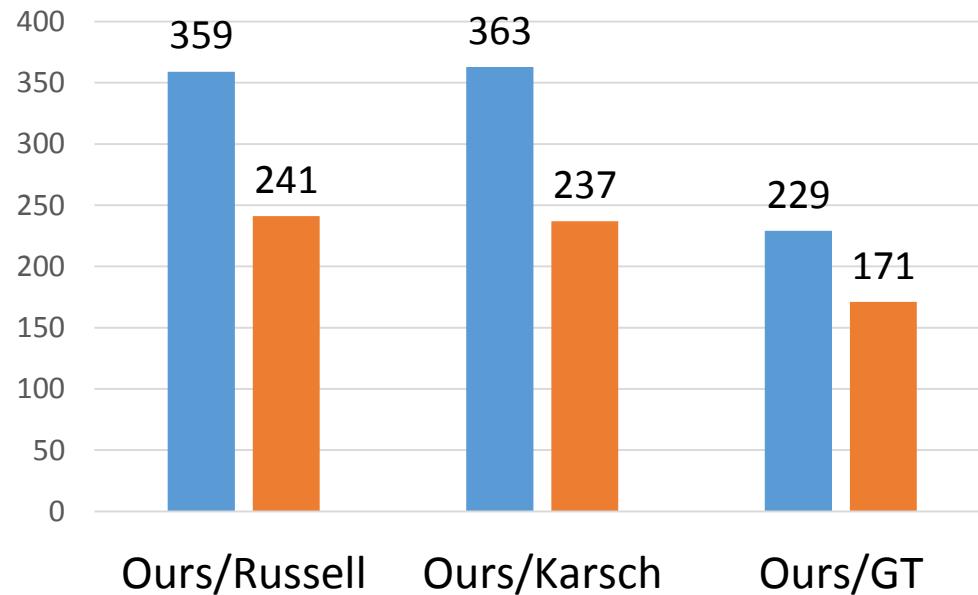


Summary of Votes

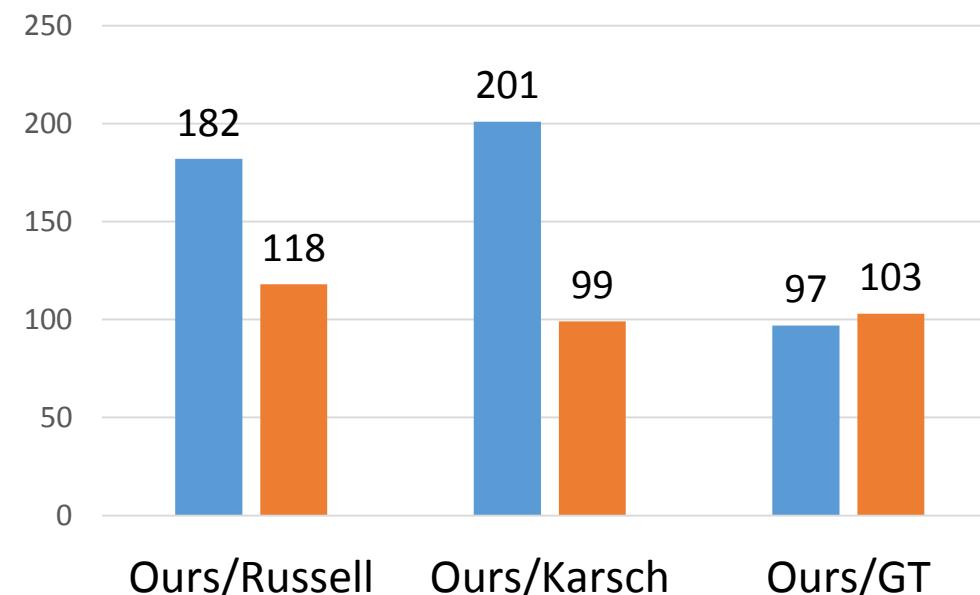
Order	Database	Comparisons	Part I Anaglyph Images	Part II Back-and-forth Video
1	NYU V2 Depth	Ours vs. Karsch	us:122 / 200	us: 71 / 100
2		Ours vs. GT	us:101/ 200	us: 42 / 100
3		Ours vs. Russell	us:102/ 200	us: 56/ 100
4	Make 3D	Ours vs. GT	us: 128 / 200	us: 55 / 100
5		Ours vs. Russell	us: 119 / 200	us: 66 / 100
6		Ours vs. Karsch	us: 109 / 200	us: 56 / 100
7	Our dataset	Ours vs. Karsch	us: 132 /200	us: 74 / 100
8		Ours vs. Russell	us:138 / 200	us: 60 / 100

Summary of Votes

Anaglyph Images

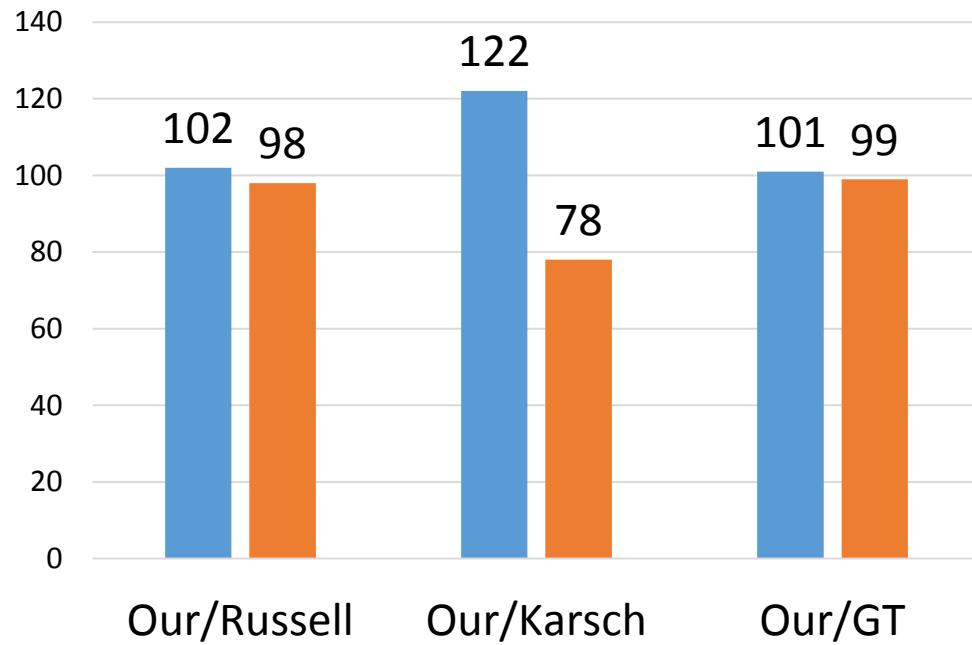


Parallax Animations

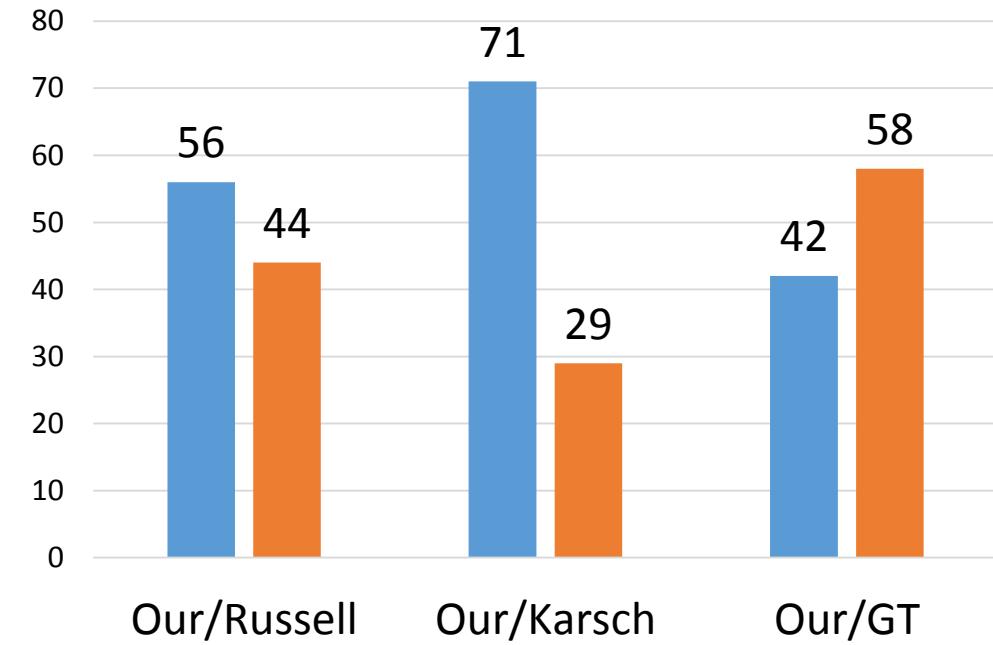


Votes for NYU V2 dataset

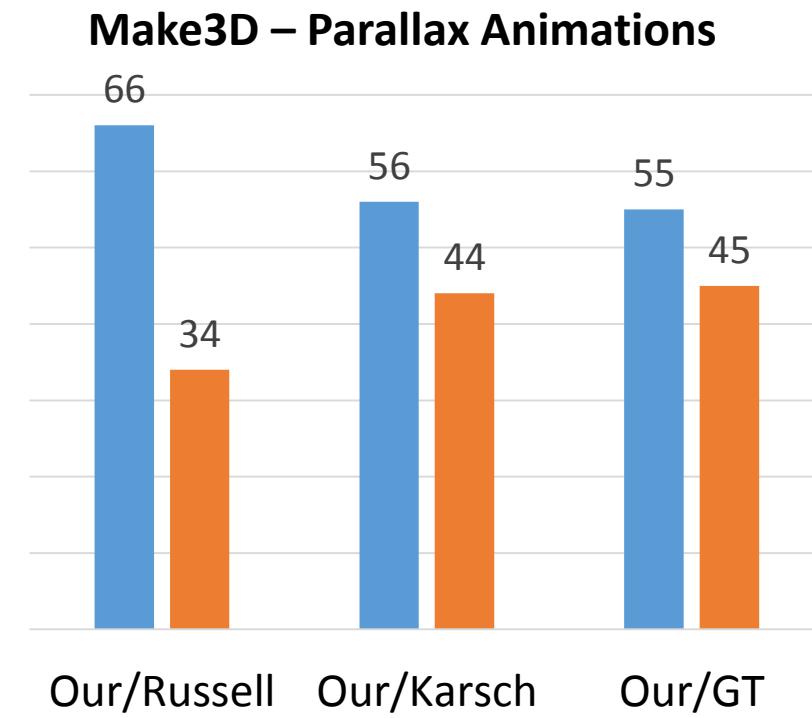
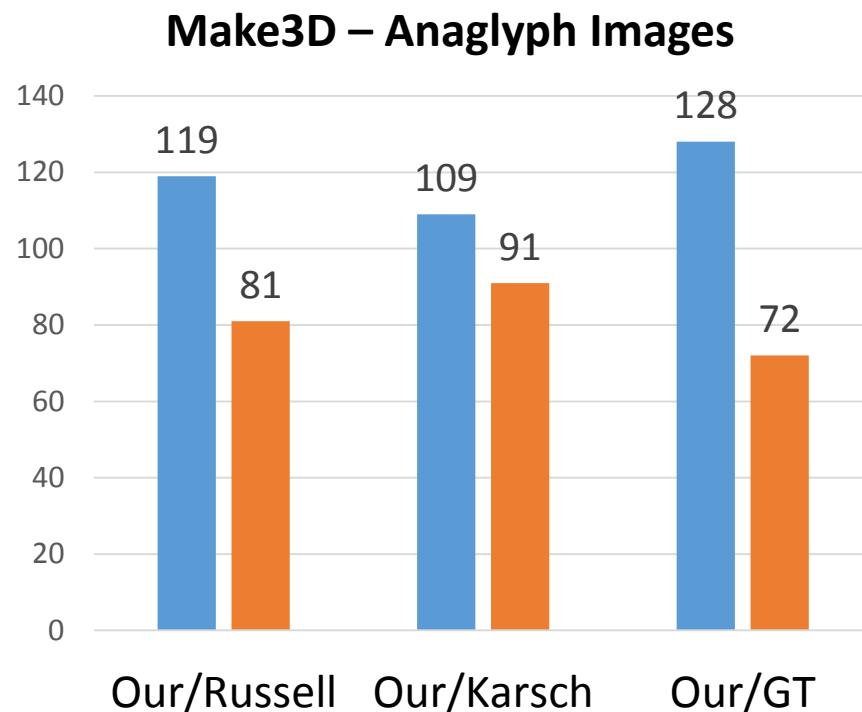
NYU V2 Dataset – Anaglyph Images



NYU V2 Dataset – Parallax Animations

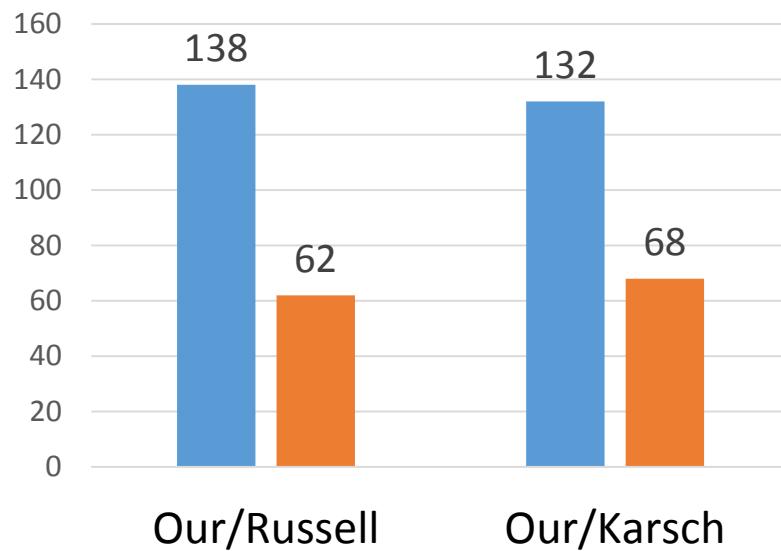


Votes for Make3D dataset

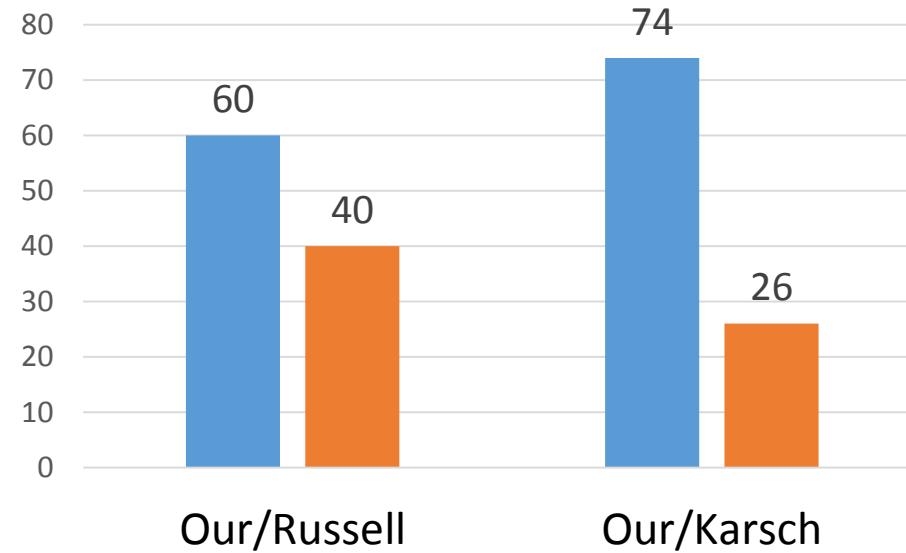


Votes for our dataset

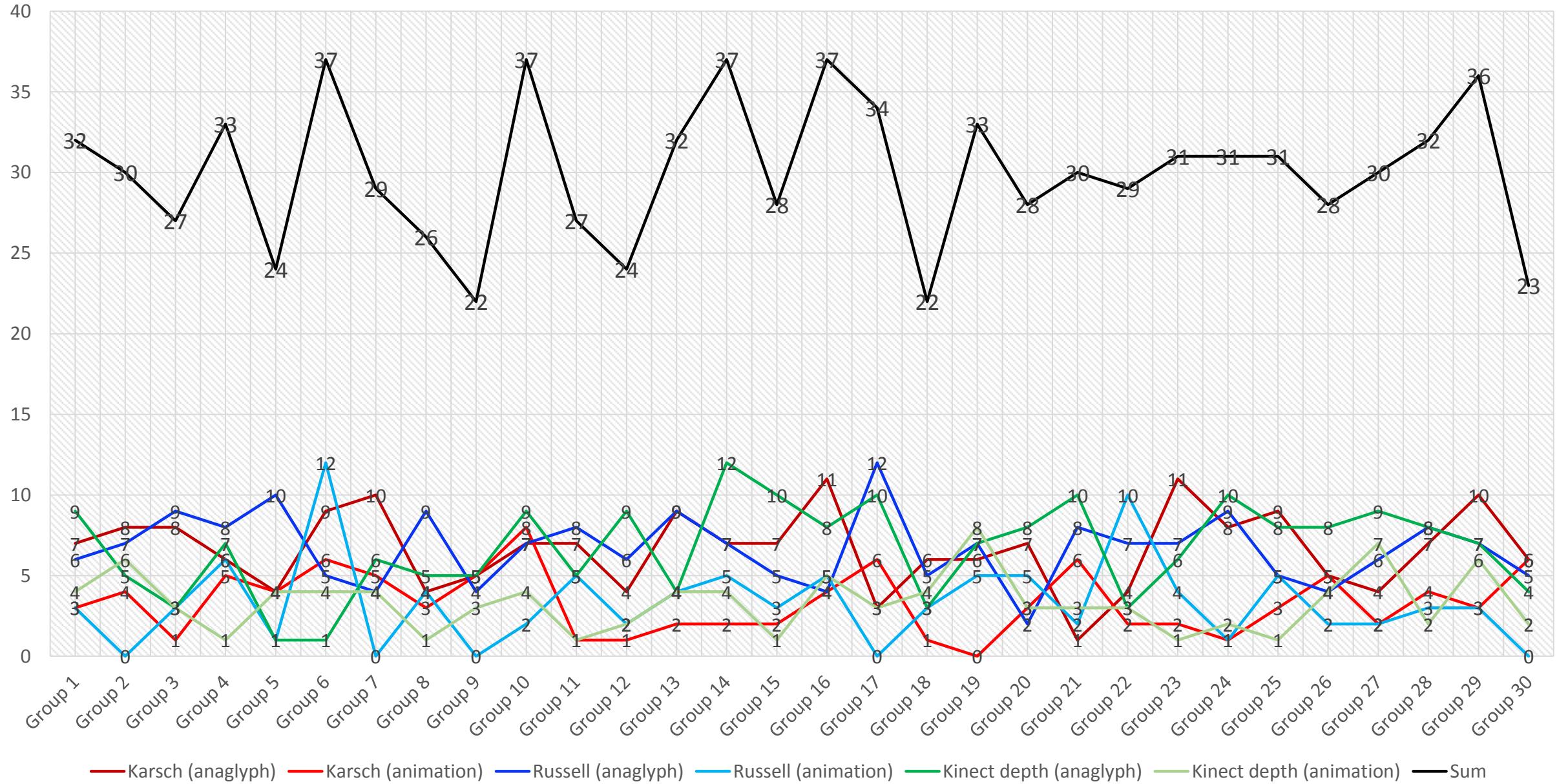
Our dataset – Anaglyph Images



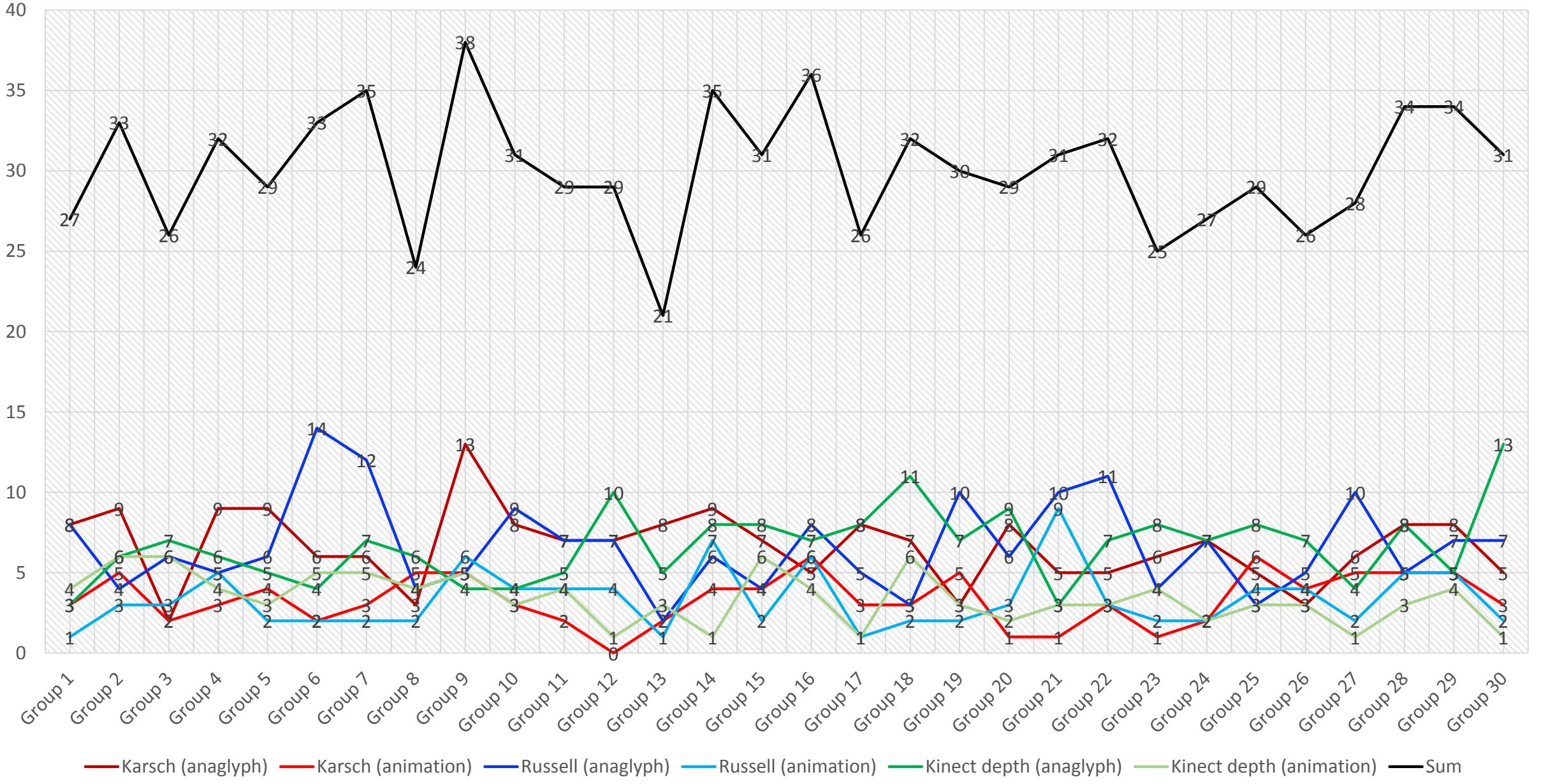
Our dataset – Parallax Animations



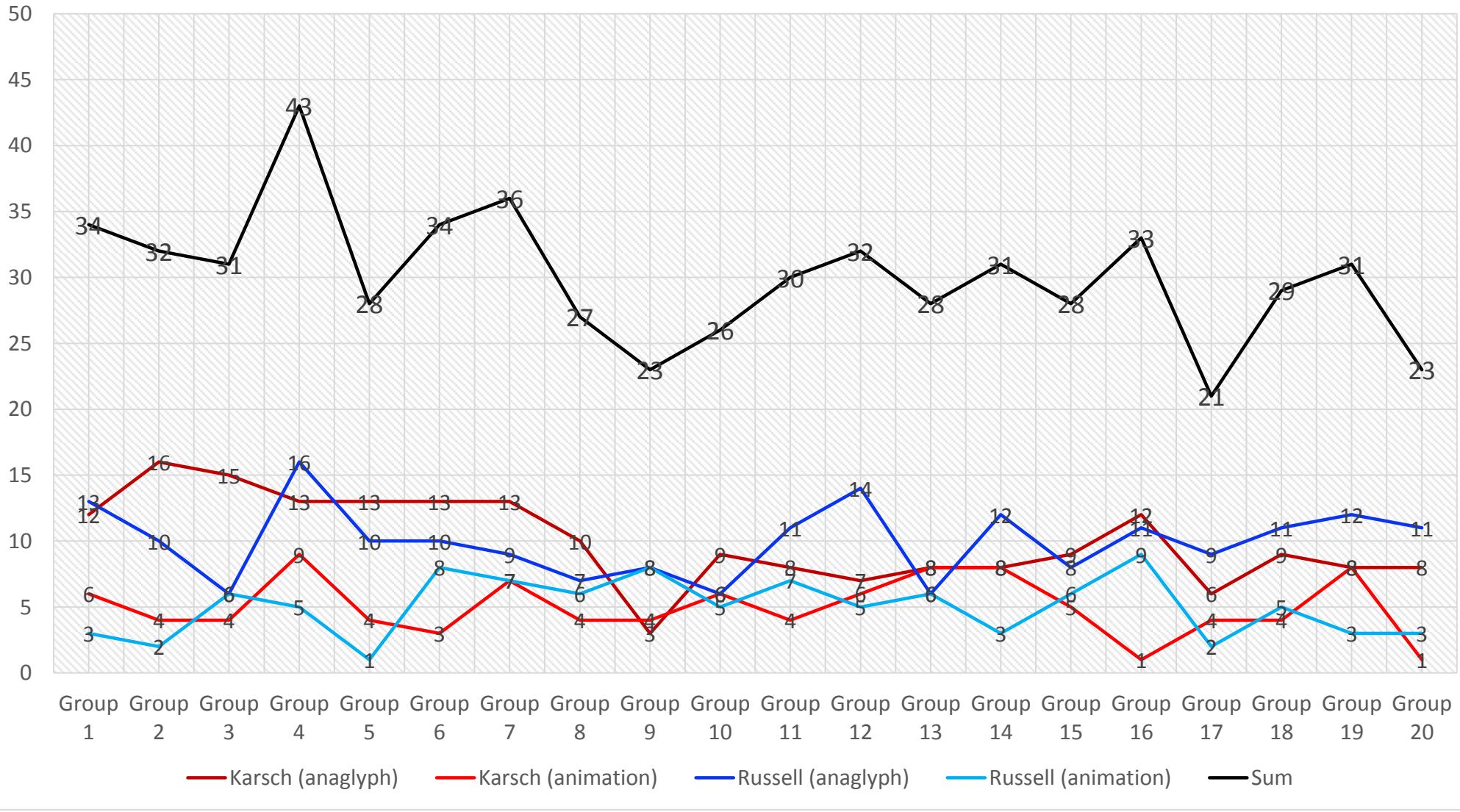
NYU-V2 Image Distribution for Comparisons



Make 3D Image Distribution for Comparisons



Our dataset Image Distribution for Comparisons



Thank you!