

Literature Review of Game Development Technologies and its Impact

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Abstract: *In today's day and age, games are considered as one of the most crucial elements for having fun and spend time with friends. Gaming have become one of the mainstream phenomena as games provide various people around the global not only relaxation but forms a connection between people by interacting virtually and having fun by playing games together games. Gaming industry has revolutionized not only multimedia but also challenging the technology which we use in our daily life. To contribute towards this industry, we are developing our own games as a project. Gaming engine such as Unreal engine are being currently used to model and make use of its ability to project and calculate lighting value in movies gaming has changed its view on world where many people are pursuing entertainment and game development and playing and streaming game leading to need of more games and creation of streaming platform, in this paper we are going to take a look at the presented information and how the need are fulfilled.*

Keywords: Game Development

REFERENCES

- [1]. Dong-Hee Yoon and 2-Youngsun Han Parallel Power Flow Computation Trends and Applications: A Review Focusing on GPU Department of Railway, Kyungil University, Gyeongsan 38428, Korea; dhyoon@kiu.kr 2 Department of Computer Engineering, Pukyong National University, Pusan 48513, Korea
- [2]. Yoji Yamato, Study of parallel processing area extraction and data transfer number reduction for automatic GPU offloading of IoT applications
- [3]. Robert Calatayud , Enrique Navarro-Modesto, Enrique A. Navarro-Camba , Nagula T. Sangary, Nvidia CUDA parallel processing of large FDTD meshes in a desktop computer: FDTD - matlab on GPU
- [4]. Papyrus info link - <https://fallout.fandom.com/wiki/Papyrus>
- [5]. JINGNING HAN, Senior Member IEEE, B OHAN LI, Member IEEE, D EBARGHA M UKHERJEE, Senior Member IEEE, C HING -H AN C HIANG, A DRIAN G RANGE, CHENG CHEN, HUI SU, SARAH PARKER, SAI DENG, URVANG JOSHI, YUE CHEN, YUNQING WANG, PAUL WILKINS, YAOWU XU, Senior Member IEEE, AND JAMES B ANKOSKI, Member IEEE A Technical Overview of AV1 By
- [6]. Zheng Zeng, Shiqiu Liu, Jinglei Yang, Lu Wang, Ling-Qi Yan, Temporally Reliable Motion Vectors for Real-time Ray Tracing More detailed explanation on YouTube
- [7]. NVIDIA RTX™ platform, Nvidia RTX Dev kit for more info, <https://developer.nvidia.com/rtx>
- [8]. Publisher: IEEE by Wanjie Sun; Zhenzhong Chen, Learned Image Downscaling for Upscaling Using Content Adaptive Resampler
- [9]. <http://waifu2x.udp.jp/>
- [10]. <https://www.amd.com/en/technologies/fidelityfx-super-resolution>
- [11]. Bruce Gain, Multi-Cores, AI & Computer Parallelism — How Gaming Chips Drive Cars
- [12]. Announcing Microsoft DirectX Raytracing!, <https://devblogs.microsoft.com/directx/announcing-microsoft-directx-raytracing/>
- [13]. Ray Tracing in Vulkan, <https://www.khronos.org/blog/ray-tracing-in-vulkan#:~:text=A%20ray%20tracing%20pipeline%20is,currently%20bound%20ray%20tracing%20pipeline.>
- [14]. Scalable Video Technology for the Visual Cloud (SVT-Visual Cloud) <https://www.intel.com/content/dam/www/public/us/en/documents/white-papers/azure-visual-cloud-scalable-video-technology-wp.pdf>
- [15]. Random Face Generator (This Person Does Not Exist), <https://this-person-does-not-exist.com/en>

- [16]. Nanite Virtualized Geometry, <https://docs.unrealengine.com/5.0/en-US/nanite-virtualized-geometry-in-unreal-engine/>