

# ANALYSIS OF DESIGN PRINCIPLES AND REQUIREMENTS FOR PROCEDURAL RIGGING OF BIPEDS AND QUADRUPEDS CHARACTERS WITH CUSTOM MANIPULATORS FOR ANIMATION

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## ABSTRACT

*Character rigging is a process of endowing a character with a set of custom manipulators and controls making it easy to animate by the animators. These controls consist of simple joints, handles, or even separate character selection windows. This research paper present an automated rigging system for quadruped characters with custom controls and manipulators for animation. The full character rigging mechanism is procedurally driven based on various principles and requirements used by the riggers and animators. The automation is achieved initially by creating widgets according to the character type. These widgets then can be customized by the rigger according to the character shape, height and proportion. Then joint locations for each body parts are calculated and widgets are replaced programmatically. Finally a complete and fully operational procedurally generated character control rig is created and attached with the underlying skeletal joints. The functionality and feasibility of the rig was analyzed from various source of actual character motion and a requirements criterion was met. The final rigged character provides an efficient and easy to manipulate control rig with no lagging and at high frame rate.*

**KEYWORDS:** Character Rigging, Quadruped Rigging, Animation, Procedural Rigging

## 1. Introduction

The process of animation a virtual character is long and tedious work. There exists huge number of rigs, tools, software's which are very advance and functionally provide a good standard rigs with ability to do tons of things. These software although are very efficient and advance but they don't always satisfy the needs of computer animator and so usually a custom process of endowing an object with a set of controls is done to achieve greater control over the animateable character. This process is normally termed as *Rigging*. Generally defining, Rigging is a fundamental part of the animation, where various custom controllers are attached to each skeletal body part. These controllers and manipulators usually consist of simple joints, locators, selection handles, spline curves, or even an independent graphical user interface (GUI) for control selection [1]. By connecting a rig to a model in a process called binding, the model mimics the motions of the rig like a puppet. The boredom of manually doing this process for each character and object in a project makes the pipeline of character animation more time-consuming, difficult and problematic[2].

A good character rig is created according to the needs and principle requirements of the characters motions. A biped rig having controls that make sense, be easy to understand with controls placed in accurate location and work in a consistent manner, will immensely help and aid the animator to bring the 3D virtual character to life with easiness and believability[3]. Often it has been seen that even the animator, riggers and technical directors also tend to forget about essential and important little things that makes animating with a rig easier and streamlined process.

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web 1 a do you think bob should have counted on jimmy to meet him after 20 years i think bob should have counted on jimmy to meet him after 20 years because he described him as the staunchest old chap in the world 1 b think about a friend you haven t seen in a while would you count on him or her to keep a promise from a long time ago