Dear editors and Reviewers:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "The Application of Texture Signatures Based on Multi-Parametric MR Images for Predicting Microvascular Invasion in Hepatocellular Carcinoma: A Retrospective study" (ID: 89186). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. Revised portion are marked in highlight in the paper and English polishing in red. The main correction in the paper and the responds to the reviewer's comments are as flowing:

Responds to the reviewer's comments:

Reviewer #1:

Response to comment: When the authors use the word "Carcinoma or Cancer", they must indicate what is cancer in the Introduction or Background information in the text. If the authors read the Chapter 2 on "What is Cancer" in the most cited book on cancer therapy.

Response: Dear editor, we have added the concept of HCC and the epidemiological status and shortcomings of HCC in the first paragraph of the research background to propose the experimental purpose of this study. such as "Hepatocellular carcinoma (HCC) is one of the most prevalent cancers worldwide, and its primary pathological manifestation is hepatocellular carcinoma [1]. Currently, the optimal treatment for liver cancer remains radical resection. However, many patients miss the opportunity

for curative surgery at the time of diagnosis….". We hope to answer your question. Special thanks to you for your good comments.

Reviewer #2（Science Editor:）：

Response to comment: As the revision process results in changes to the content of the manuscript, language problems may exist in the revised manuscript. Thus, it is necessary to perform further language polishing that will ensure all grammatical, syntactical, formatting and other related errors be resolved, so that the revised manuscript will meet the publication requirement (Grade A).

Response: Dear editor，We have conducted language polishing after the modifications, please refer to the highlighted red font for details.

Reviewer #3 （Company Editor-in-Chief）：I recommend the manuscript to be published in the World Journal of Gastrointestinal Oncology. When revising the manuscript, it is recommended that the author supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply PubMed, or a new tool, the RCA, of which data source is PubMed.

Response: Dear editor, we have added the highlights of the study in the conclusion, as: **"**This study introduces new methods for predicting microvascular invasion in hepatocellular carcinoma using texture analysis of multi-parametric MR images. It proposes the combination of MI+PA+F dimensionality reduction and Nonlinear Discriminant Analysis as a novel and effective approach. This methodology represents

a significant advancement in non-invasive, objective diagnostic tools in the field of hepatocellular carcinoma management."

We tried our best to improve the manuscript and made some changes in the article. Here we did not list the changes but marked in red and yellow in revised paper.We appreciate for Editors' warm work earnestly, and hope that the correction will meet with approval.

Thank you very much for your comments and suggestions.