

Hybridized Dimensionality Reduction Model for Blurred Text Detection in Natural Scene Images

Chinonyelum Vivian NWUFOH
LCU/PG/000136

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Certification

This is to certify that Chinonyelum Vivian Nwufoh with matriculation number LCU/PG/00136 carried out this research work titled “Hybridized Dimensionality Reduction Model for Blurred Text Detection in Natural Scene Images” in the Department of Computer Science, Faculty of Natural and Applied Sciences, Lead City University, Ibadan, Oyo State, for the award of Doctor of Philosophy Degree (PhD) in Computer Science and that this has not been previously submitted.

Dr Wilson Sakpere
(Supervisor)

Date

Dr Wilson Sakpere
(Head of Department)

Date

Dedication

My research work is dedicated first and foremost to God Almighty, my Sustenance and then to my father; Late Sir G.T.N Tabansi, my mother Lady Uju C. Tabansi and to my late parents-in-law; Chief and Mrs K.J Nwufoh.

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“Even though the above-mentioned institutions and persons have assisted in the process of this research work, I alone stand responsible for the errors, if any, found in the work.”

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List of Acronyms

| Abbreviation | Meaning |
|---------------------|-------------------------------|
| STR | Scene Text Recognition |
| CV | Computer Vision |
| PR | Pattern Recognition |
| GA | Genetic Algorithm |
| ICA | Integrated Component Analysis |
| ML | Machine Learning |
| SVM | Support Vector Machine |
| K-NN | K-Nearest Neighbor |
| DR | Dimensionality Reduction |
| FS | Feature Selection |
| FE | Feature Extraction |
| IGA | Improved Genetic Algorithm |

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