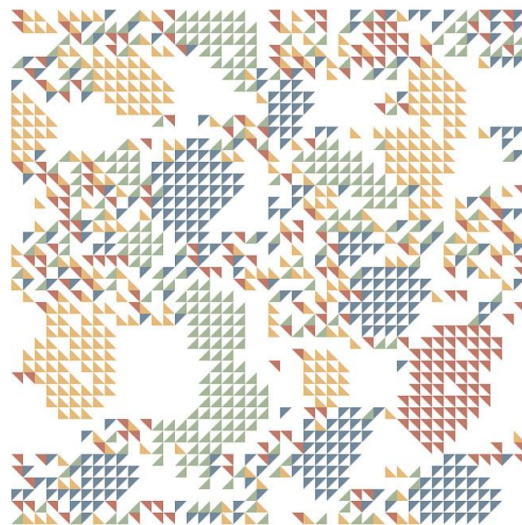# Computer Graphics, Imaging & Visualization

- New Horizon -

Edited by

Ebad Banissi, Muhammad Sarfraz, Abdelouhab ZEROUAL and Mohamed Fakir

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Cover Image Credits

"Corbett6_SEPARATION " - **WC Corbett**

> "A hybrid technique "dream to slides" processing is providing a device to amplify the original brief information extracted from a narrated dream into computer scientific dream data visualization. The following is a set of slides related to time (THE FOUR SEASON – SPRING, SUMMER, AUTUMN, WINTER) and the set Understanding/Separation. "

"Symmetry_Still_1" - **Lina Marta Sarma**

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Preface

Computer Graphics, Imaging and Visualization (CGiV) combined are used in some form or of the applications in this age and time. New applications show strong trends from graphics, imaging, and visualisation. There are exciting explorations of theories and applications to a wide range of disciplines including social media, geo-sociology, health, business, security and more. Statistical analysis of literature illustrates that the chasm between academia and industries is abridged as applications becoming more innovative and driving new research activities.

The collection in this volume has latest contributions from scientists, artists, and users from a cross section of disciplines in the area of Computer Graphics, Imaging, and Visualisation. Though the classification is somewhat difficult because of overlapping nature of the subject but there are three themes of Graphics, Imaging and Visualization running through this book. Chapters contribute towards different new techniques, applications, and tools within the theme of the book. The book is planned to have best possible utility for researchers, computer scientists, practicing engineers, and many others around the globe. It will also be equally and extremely useful for graduate students in the areas of Computer Science, Engineering, and other computational science disciplines.

Each contributor does indeed add fresh views and thoughts, challenges our beliefs, and encourages further explorations and innovations. We are grateful to all for providing the opportunity to share their valuable work to research and scientific community. These contributions will prove to be an asset for future awareness.

This book has come out of the efforts of the annual international forum of CGiV2017. We are deeply indebted to all the contributors of this book as well as the reviewers for their patience and cogent views of submitted manuscripts.

Editors