


S-Packing Colorings and t-Tone Colorings of Graphs
Part I: S-Packing Coloring of Graphs
Part II: t-Tone Coloring of Graphs
II.1 Vertex t-Tone Coloring
II.2 Edge t-Tone Coloring


Numerical and Theoretical Study of the Optimal Control of a Reaction Diffusion Model with Medical Applications
5-Packing Colorings and 1-Tone Colorings of Graphs


Exploration and Exploitation of Multimodal Fusion Potentials in Hyperspectral and Polarimetric Data Analysis Using Artificial Intelligence
Bouchra ABOEL AZIZ, Nadine ABDALLAH SAAB, Amani RAAD, Olga ASSAKOVA, Mohamad KHALIL, Rene EL MOUF
ISEN
I. INTRODUCTION
II. HYPERSPECTRAL IMAGE
III. Spectral Variability-aware Learning Models
IV. METHODOLOGY
V. RESULTS & DISCUSSION
CONCLUSION
REFERENCES
1


Rooms 1,2,3
Ground Floor
Room 4
1st Floor






Household Vulnerability Profiles and Food Insecurity in Lebanon
Introduction
Methods
Results
Discussion
FAST . RELIABLE
ALWAYS CONNECTED
TEACH
INSPIRE
CONNECT






Singular Elastic/Viscoelastic Transmission Problem for the
Wave Equation with Dynamic Boundary and Mixed Damping
Hawraa Zarakot


III. Experiments & Results: b) Autoencoder & MLP
Input flattened; latent features z
AE trained for 10 epochs (stage 1)
MSE loss between x & x̂
MLP trained for 30 epochs (stage 2)
MSE loss (ρ & θ)
Train loss: 2.2e-3, best validation loss: 2.4e-3
MAE: 0.023, accuracy: 0.865, R²: 0.98
Autoencoder
Encoder: FC layers → latent features z
Decoder: FC layers → reconstruction x̂
Training stage 2
MLP: FC layers → (ρ & θ)