

Figure 2. Fraction maps estimated using LMM

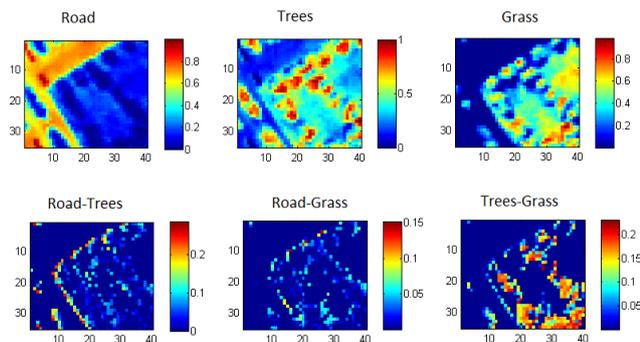


Figure 3. Fraction maps estimated using GBM

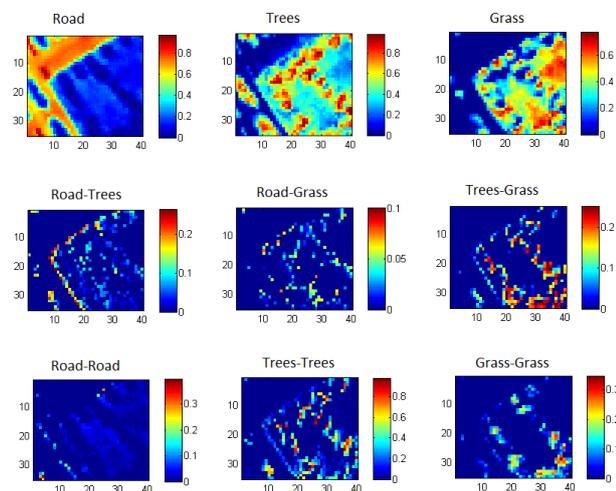


Figure 4. Fraction maps estimated using MGBM

5. CONCLUSION

Mixture model has been widely implemented for remote sensing for several decades. The Linear Mixture Model neglects multiple reflections and assumes linear combination which is suitable for smooth surface. However, the interaction between materials has to be considered for rough surface. The proposed Modified Generalized Bilinear Model is developed from Generalized Bilinear Model by further include second order reflection within the same material, and the preliminary results support our assumption. The experiment with in situ measurement under controlled environment will be conducted and analyzed in the near future.

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