Automatic Texture Analysis Alignment

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Abstract

Texture analysis often requires selecting expected texture components and a properly aligned sample frame, e.g. the sample basis vectors are aligned with processing direction. Selecting potential texture components relies on expert knowledge. Alignment typically involves careful sample preparation and/or manual rotation of the reference frame as a post processing step. A mistake in either makes correctly determining the other more challenging. An approach for automatically determining and applying these elements is presented, enabling a bootstrapped solution with application shown for several example datasets.

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