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A Novel Framework for Background Subtraction and Foreground Detection

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**Highlights**

- A new data structure, Mino Vector (MV), is designed to serve the whole framework.
- Concepts of dynamic nature (DN) and dynamic rank (DR) are defined for the first time.
- A normal distribution is chosen as the pilot estimate for the Varying KDE.
- The threshold of each pixel is adaptively controlled by each pixel's own DR.
- A novel update mechanism called Tetris update scheme (TUS) is proposed.

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