Technical and Software Terms

- **CF (Capillary Function): The specific software module used with CMN for functional and dynamic image analysis.**

- **CMN (Cercare Medical Neurosuite):** The core software platform used for automated detection, viewing, and analysis of **MRI and CT** imaging series.

- **Co-registration:** The process of mathematically aligning different image series (e.g., DWI and PWI) into the same **physical space** for direct comparison.

- **DICOM (Digital Imaging and Communications in Medicine):** The international standard for handling, storing, and transmitting **medical imaging** information.

- **Fused Series:** A 3D image series created by combining two different maps (e.g., CTA and CBF) into a single viewable volume.

- **Junction (Softlink):** A Windows command used to redirect a folder path to a different **file system**, often used to move data off the C-drive.

- **LOI (Lack of Information) Probability:** A map indicating the degree to which voxel data is insufficient for reliable **hemodynamic estimation**.

- **MIP (Maximum Intensity Projection):** A technique that projects the voxels with the highest intensity along a viewing path, often used to visualize **vasculature**.

- **Montage Series:** A 2D overview image displaying all slices of a brain series with **lesion overlays** and volumetric data in a single view.

- **PACS (Picture Archiving and Communication System):** A medical imaging technology used for the long-term storage and convenient access of **DICOM images**.

- **ROI (Region of Interest):** A user-defined area on a medical image used to extract quantitative measurements like **mean intensity** or volume.

- **Staging:** The process of preparing and configuring a computer or **virtual platform** with the necessary software and settings before delivery.

- **SVD (Singular Value Decomposition):** A common mathematical technique used for the **deconvolution** of perfusion data to estimate parameters like CBF and MTT.

- **System Fingerprint:** A unique hardware identifier (UniqueID) generated by the CMN software to create a specific **license file**.

- **VE (Virtual Expert):** advanced software medical device designed as an extension module for the Cercare Medical Neurosuite platform. Its primary clinical purpose is to provide automated analysis and delineation of brain images to assist in the management of acute ischemic stroke.

- **Workflow:** A specific set of application settings and detection rules that allow the software to process different **pathologies** or manufacturers automatically.