Discovery of the Piano Extended Techniques by Focusing on Symbols That George Crumb Used in Makrokosmos Volumes

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Abstract : George Crumb's Makrokosmos Volumes are considered significant pieces in twentieth-century piano music and showcase the extensive use of different tones and extended techniques on the piano. Crumb's works are known for making references, particularly to music from previous eras which the visual, aural, and numerical characteristics are symbolic in nature. Crumb created a list of symbols and shortened letters to clarify his unique directions to those who performed his compositions. The pianists who prepare to play Makrokosmos must dedicate time to study and analyze Crumb's markings diligently to accurately capture the composer's wishes. The aim of this paper is to provide a collection for pianists looking to perform George Crumb's compositions known as Makrokosmos Volumes. The research traits of unconventional playing techniques and discussions on the music explored by the composer are being described.

Keywords: music, piano, Crumb, Makrokosmos, performance

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