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QuVue: A tool for uVSF(SkyView Ratio) Analysis

QuVue is a tool for uVSF(SkyView Ratio) Analysis. It is a new index for measuring visible sky ratios that overcomes the major hurdles of current methods. It calculates the actual three-dimensional projection area of obstacles onto a virtual hemisphere, considering humans' downward view.

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					t design improvement, please contact us is TRADEMARKED and its a free
WHAT I	S QUVUE ?*		occupants in have a positiv productivity [2 environments	high density high e relationship wit 29], and real esta s, it is important t	igh a window is an important factor for h-rise urban environments. Good views rith occupants' health [28] and ate values [30]. In highly dense urban to consider the quantitative aspect of tive scenery and access to the sky [31].
			Generally, the visible sky rat surrounding o	quantitative valu io, which is signif obstructions [1]. T	lue of view can be measured as the ificantly affected by the arrangement of The amount of visible sky is highly lability, and thus is prescribed by building

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			frequently dis performance- integrated at t provide archit	cussed than sola based building d the early design s ects with well-de	iled requirements have been less or access [31]. Thus, in terms of a esign process, view analysis should be stages of site planning in order to efined information and flexibility in the d ultimately improve occupant	
			evaluation me approaches: 1 methods [14]. inaccuracy ori process, 2) an tracing, and 3 location, orien material prope 2). To overcon the visible sky algorithm gen obstructing be	ethods of quantity 2D projection, 2 The major limital ginating from distinability to include a dependency untation of observenties and form one these limitation of the contraction of t	n on this topic categorized the ative visible sky into three different (2) 3D sky segmentation, and 3) DF-based tions of these methods include: 1) stortion during the 2D projection de the downward view via spherical raypon the sky model, geographical ation surface, the sun's position, and if the surroundings (see <u>Table 1</u> and <u>Fig.</u> ons, uVSF was developed to calculate imputational numerical model. The uVSF oundary surfaces to enclose an it the vertexes of the surrounding	