SCAT (SASANG CONSTITUTIONAL ANALYSIS TOOL): THE WEB APPLICATION OF CONSTITUTIONAL ANALYSIS SYSTEM

Ji Ho So* and Jun Hyeong*
*Korea Institute of Oriental Medicine, Korea

In Korean medicine Sasang constitutional medicine categorizes people into four types according to individual characteristics: Tae-Yang (TY), Tae-Eum (TE), So-Yang (SY), and So-Eum (SE) types. The reason for categorizing the constitution is that each constitution has a different approach to treating diseases. Drugs and treatments are applied differently depending on the constitution, even if they have the same disease. For this reason, it is very important to objectively diagnose Sasang constitution. SCAT (Sasang Constitutional Analysis Tool) is a system that provides the information necessary for an expert to diagnose Sasang Constitution objectively. Four kinds of information are needed to diagnose Sasang constitution using SCAT. First, you need a picture of the faces of the front and left sides. Second, you need an audio file with a specific sentence recorded. Third, the circumference length of eight important parts of the body is required. Finally, a questionnaire for each type of personality, diet, digestion, and metabolism is needed. Four types of information such as face, voice, body type, and questionnaire are uploaded to the SCAT system through the website to diagnose the Sasang constitution. Using the SCAT, you can obtain objective analysis of facial, voice, body, and questionnaires. The oriental doctor can diagnose more accurately and objectively by using the analyzed results. SCAT provides an environment that facilitates easy access to the diagnosis of Sasang constitution to experts and general users. SCAT is being used as a good learning and practical tool for students who are learning initially by providing objective information needed for the diagnosis of Sasang constitution. SCAT has a user-friendly UI/UX for user’s ease of use. And it is made up of web service that is convenient to use regardless of place. Through the development of the SCAT system in the future, the convenience of use and the accuracy of information will be improved as a tool for diagnosing Sasang constitution.

Biography

Ji Ho So has his expertise in evaluation and passion in improving the Medical Engineering and Software Engineering. His open and contextual evaluation model based on responsive constructivists creates new pathways for improving healthcare. He has built this model after years of experience in research, evaluation and administration both in research and laboratory.

chocogeo@kiom.re.kr

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