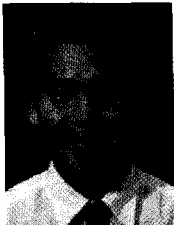


특 강 III

- 09:00 ~ 10:30, 11월 1일
- Bexco 3층 Grand Ballroom

The Virtual Craniofacial Patient : A platform for the future of digital orthodontics

Prof. James Mah / University of Southern California



James Mah

The digital age has have greatly improved our standard of living, communications, entertainment, and allowed us to experience the world in a very different ways. In orthodontics we are embarking upon our own digital age wherein the current methods of diagnosis and treatment planning which are primarily 2-dimensional media (photographs and radiographs) and stone models of the dentition are becoming digital. The digital domain allows numerous perspectives such as 3-dimensions and motion. These abilities allow for advanced applications in diagnosis, treatment planning, simulation and therapeutics, particularly computer fabrication of appliances. This presentation will describe a platform of technology formed by new advances in digital dental models (direct and indirect acquisition), cone-beam computed tomography (CBVT), 3-dimensional facial imaging and jaw motion analysis. Advanced applications of this technology are the functions of 3-dimensional diagnosis and treatment planning, patient-specific modeling, research, finite element analysis, and computer assisted appliance design. Developments in our laboratory on the topics of segmentation and animation of CBVT volumes, facial imaging and analysis, construction of a patient-specific 3-dimensional model and hypothesis testing using finite element analysis will be presented.