

# GIST, Suncheon holds 2nd local government symbiosis forum: College Dean Kwanghee Ko's gives special lecture on 'Fusion of Reality and Virtuality: New Analog'

- GIST Academy, as part of the plan for joint growth and development with the local community through science and technology, has held the 'GIST-Local Government Forum' since last September... The 3rd forum is scheduled to be held in Gwangyang

- About 50 businessmen and citizens from the Suncheon area attended... Professor Kwanghee Ko of the School of Mechanical and Robotics Engineering at GIST, who was appointed as the Suncheon City Science and Technology Innovation Ambassador, was invited to introduce the current status of development of augmented reality and virtual reality and its development prospects



▲ On Thursday, October 24, GIST Academy held the 2nd GIST-Suncheon City Symbiosis Forum at the Suncheon Eco Grad Hotel Convention Hall, and attendees are taking a commemorative photo.

The Gwangju Institute of Science and Technology (GIST, President Kichul Lim) announced that it held the 2nd GIST-Local Government Symbiosis Forum in Suncheon, Jeollanam-do on Thursday, October 24, hosted by GIST Academy (Director Jae Gwan Kim, professor in the Department of Biomedical Science and Engineering).

This forum, which was hosted by inviting GIST College Dean Kwanghee Ko (professor in the School of Mechanical and Robotics Engineering), was held at the Eco Grad Hotel Hotel Convention Hall in Suncheon with the attendance of approximately 50 businesspeople and citizens from the eastern part of Jeollanam-do.

GIST is strengthening its cooperative network with local governments by appointing 15 full-time faculty members and researchers as special ambassadors for science and technology innovation in 10 cities and counties in Jeollanam-do, taking into account each region's key and new industries.

In February, an MOU was signed with Suncheon City to foster local talent and strengthen the city's competitiveness, and GIST College Dean Kwanghee Ko was appointed as the Suncheon City Special Ambassador for Science and Technology Innovation.

Since taking office at GIST in 2006, Dean Ko has been widely recognized not only in academia but also in industry for his outstanding research achievements in the fields of virtual and augmented reality, shipbuilding automation, modeling, and simulation. He has also contributed to the development and expansion of the Korean scientific community through domestic and international academic exchanges and human resource development.

In particular, he was awarded the Elmer L. Hann Award, the best paper award in the ship production field, from the Society of Naval Architects and Engineers of America (SNAME) for his research on improved triangular heating for automatic heat processing systems. In addition, he is currently working on developing space recognition projection technology to transform indoor spaces into XR (extended reality) environments in the recently spotlighted field of virtual and augmented reality.

On this day, Dean Kwanghee Ko explained the basic knowledge of virtual reality and augmented reality under the theme of 'Fusion of Reality and Virtuality: A New Analog,' while introducing the current status of development and presenting future prospects.

The dean of the college, who started with the question, "What will our lives be like in the future?", introduced the concept of reality (existing analog) and virtuality by giving an example of a future society where augmented reality is commonplace, and he presented the image of a 'new analog era' created through the interaction between reality and virtuality through augmented reality, which is still unfamiliar to the public.

In addition, he explained the relationship between reality (analog) and virtuality (digital) in an easier-to-understand way, introduced actual cases of augmented reality currently in use, equipment and operation theory for its implementation, and technology and research applied in the field of virtual and augmented reality.



▲ Dean Kwanghee Ko (professor in the School of Mechanical and Robotics Engineering) is giving a lecture on the topic of "Fusion of Reality and Virtuality: New Analog" at the 2nd GIST-Suncheon City Symbiosis Forum.

Dean Kwanghee Ko said, "The future of augmented reality technology, the new analog, is a fusion of virtual and real, where the distinction is no longer possible. In the future, everything that exists in imagination may be realized."

On this day, President Kichul Lim said in a welcoming speech read by GIST Academy Director Jae Gwan Kim, "The background for the birth and growth of GIST was the earnest wishes of local residents for regional development. I hope that the GIST-Local Government Symbiotic Forum will become a strong bridge connecting the region, Gwangju, and GIST."

Mayor Gwan-gyu Roh of Suncheon City said in a congratulatory speech read by Director Ki-jeong Lee of the Suncheon City Youth Education Bureau, "I hope that mutual cooperation will be closely promoted starting with today's forum, which is the result of the MOU with GIST."

Meanwhile, GIST Academy has been holding the 'GIST-Local Government Forum' since last September as part of its plan for mutual growth and development with local communities through science and technology. The first (September 25) and second forums were held in Suncheon, and the next forum is scheduled to be held in Gwangyang, Jeollanam-do.

