Interspace Research Center

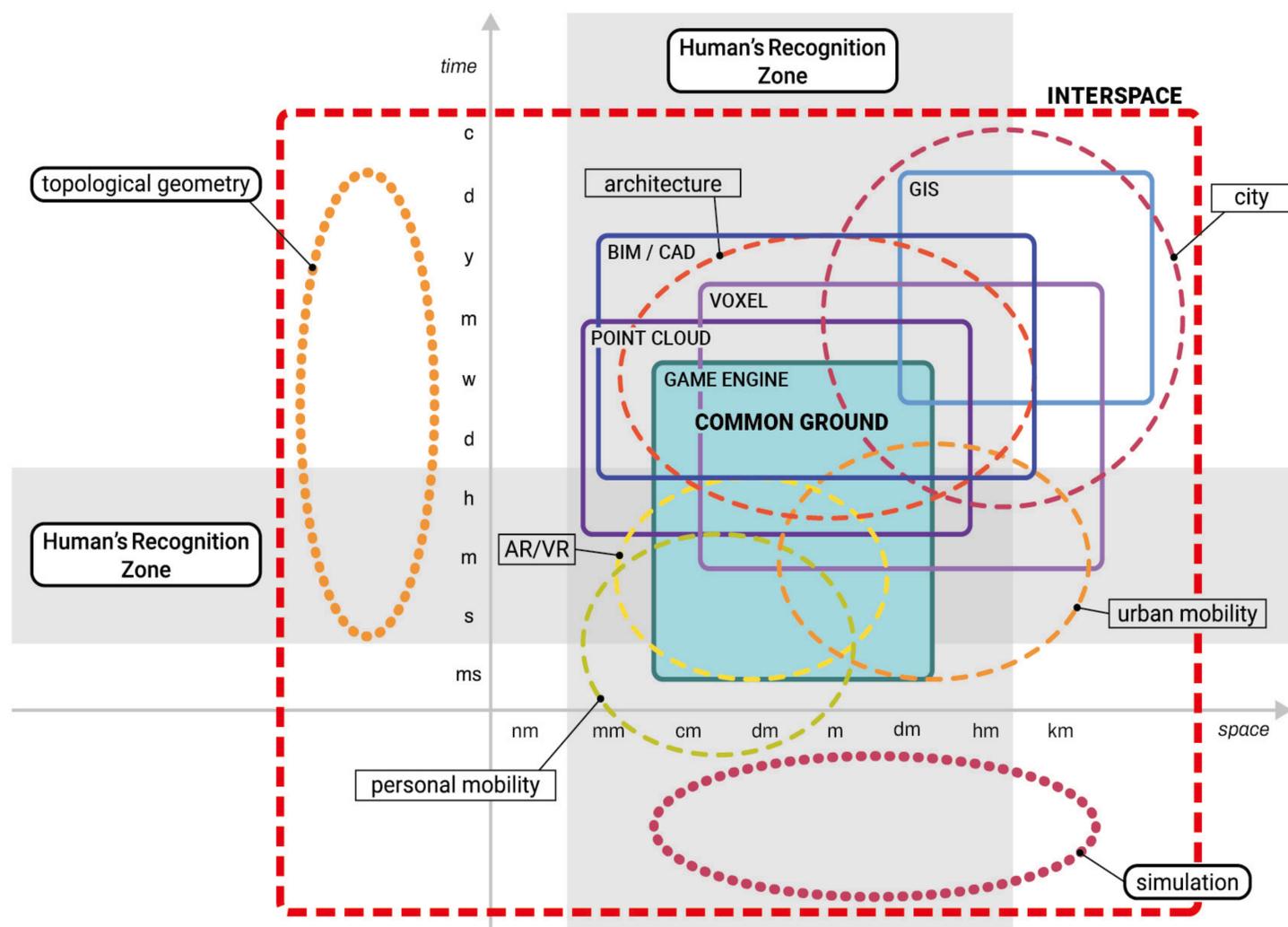## [Systematization of next-generation generic spatial descriptions]

Interspace Research Center

Mikio KOSHIHARA, Takeshi OISHI, Keisuke TOYODA, Yoshihide SEKIMOTO, Kaoru SEZAKI, Kotaro IMAI,

Yudai HONMA, Yoichiro MIYAKE, Tsukasa ISHIZAWA

https://www.iis.u-tokyo.ac.jp/ja/research/department_center/Interspace-Research-Center/

Consistent, adaptable and responsive connection and operation are required to maximize the benefit and welfare by the diffusion and extension of the digital twin in the built environment. The center proposes "interspace" as the area between physical and cyberspaces. Well-designed interspace enables accurate and precise reflection of the events and state-of-arts in physical space to cyberspace. It also enables responsive conversion of processing and operations in cyberspace. The center aims to be a world-leading research center for next-generation general-purpose digital space description, which is the foundation for advanced collaboration between cyberspace and physical space and is referred to as Interspace.

< Inter-space domain in spatial and temporal scales using spatial description schemes >

< Major Research Areas of the Interspace Research Center >

Digital Spatial Description	Game AI /Game Engine	Architecture and Urban Space	Urban Environment Mathematical Engineering
Multimedia Communication	Wood Structure Design Engineering	IoT Network	Blockchain

Institute of Industrial Science, The University of Tokyo