

Human and Machine in AI Era - machine having a heart –

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Abstract: The keywords "digital", "data", "computation", and "machine learning" are widely used not only in the natural and social sciences, but also in the humanities. Such a phenomenon can be called the instrumentalization of AI. This trend is expected to intensify as AI development advances. Today, AI research is not so much a science that pursues the truth, but rather a technological development that brings about changes in society and life. What distinguishes AI from other tools is that it is an externalization of human wisdom and intelligence. The next may be “a machine with a heart”. I would like to begin with the introduction of the research works I did together with my students for more than 30 years on robotics and computer science, and then I will talk a possible direction of technology development toward the machine having a heart as my dream for future.

Biography: Shuji Hashimoto received the B.S., M.S. and Dr. Eng. Degrees in Applied Physics from Waseda University, Tokyo, Japan, in 1970, 1973, and 1977, respectively. He was an Associate Professor in the Department of Physics, Toho University from 1979. In 1991 he moved to Waseda University as a Professor of the Department of Applied Physics. In Waseda University he served as the Director of the Humanoid Robotics Institute for ten years from 2000. During 2006-2010 he was the Dean of Faculty of Science and Engineering. He served as the Senior Executive Vice President for Academic Affairs and Provost of the University from 2010 to 2018. His research interests include Artificial Intelligence, Robotics, "KANSEI" Information Processing, Sound and Image Processing and Meta-Algorithm.



Currently he is Professor Emeritus at Waseda University. He is also one of the Leaders in the Gundam Global Challenge and a Director of XELA Robotics Co. Ltd. He was appointed the Vice President of Egypt Japan University of Science and Technology (E-Just) in 2023.