

## **Embedded AI technology**

### **Abstract**

AI will establish a variety of industries in the near future. Embedded AI includes a large volume of the industries, traffic, manufacturing, energy, and plant. In this lecture, I introduce an AI tool that is applied to commercial systems in this field. This lecture is composed of 4 sections, "Target of Embedded AI," "Introduction of Deep Binary Tree (DBT)," "Practice for DBT," and "Summery." We will practice about DBT through a commercial cloud system that supports DBT. The audience of this lecture will be able to get a free ID of the cloud system.

### **Speaker Bio**

CV follows (see next page)

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## Personal

Birthday: November 12, 1978

Nationality: South Korea

Residence: Japan

## Education

*A: Ph.D. Engineering, Waseda University, (2008,3).*

Ph.D. thesis: “Topology Learning Method for Control Circuits in Autonomous Robots”.

*B: M.S. Mechanical Engineering, Waseda University, (2005,3).*

Master thesis: “Self-Organizing Algorithm for Logic Circuit based on Local Rules”.

*C: B.S. Mechanical Engineering, Waseda University, (2003,3).*

Bachelor thesis: “Proposition and Validation of Communication Robot based on Context”.

## Employment History

*A: Iwate University, (2013,12–present).*

**Associate Professor (Tenured)**

*B: Honda Research Institute Japan Co., Ltd., (2008,4–2013,11).*

**Researcher**

*C: Twenty First Century Center of Excellence in Waseda University, (2005,4–2008,3).*

**Research Assistant**

## Additional Positions

*A: AISing Co. Ltd., (2017,2–present).*

**Director (CTO)**

*B: Iwate University enPiT Executive Office, (2016,10–present).*

**Executive Director**

*C: Waseda University School of Creative Science and Technology, (2013,10–2014,4).*

**Adjunct Lecturer**

*D: RIKEN Brain Science Institute, (2008,4–2012,3).*

**Visiting Researcher**

*E: Waseda University, (2008,4–present).*

**Invited Researcher**