Università di Genova
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Measuring the recyclability of waste electronic components in printed circuit boards

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Recyclability refers to the probability that a specific item will be recycled in practice. Waste electronic components (WECs) on PCBs come in many forms, colors, and material compositions. Recyclability significantly affects the classification decision, sorting of WECs, and the level of difficulty in recycling throughout the automatic disassembly and sorting process. Today's talk, I will present an in-depth look of a novel method for measuring the recyclability of WECs in waste PCBs. Further, I will show the outcome of the model and how it will help intelligent disassembly application to enhance the efficiency of the recycling process.

BIO

Muhammad Mohsin is a third year PhD student in Computer Science at University of Genoa under the supervision of Francesco Masulli and Stefano Rovetta. He is currently working as a visiting research student at Tsinghua University Beijing, China. Currently, he is working on an Artificial Intelligent (AI) based solution for the selective disassembly of waste PCBs to enhance the dismantling, sorting and recycling process for critical raw materials recovery.