

Intelligent Process Automation in Audit

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43rd WCARS 11/03/18

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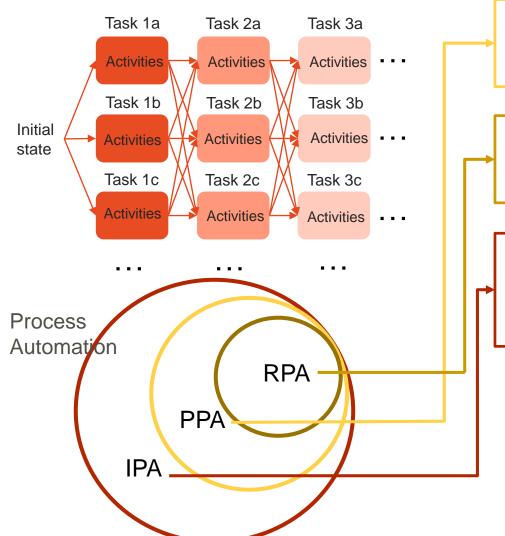
Overview

- Introduction
- "Auditor-in-the-loop" IPA ecosystem
- Audit workflow driven by IPA
- Implementation framework
- Ongoing and future research

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Introduction

Audit workflow/process



Pre-defined Process Automation (PPA): the patterns of the process are **pre-defined** by human.

Robotic Process Automation (RPA): run application software in the same way that a person works with that software.

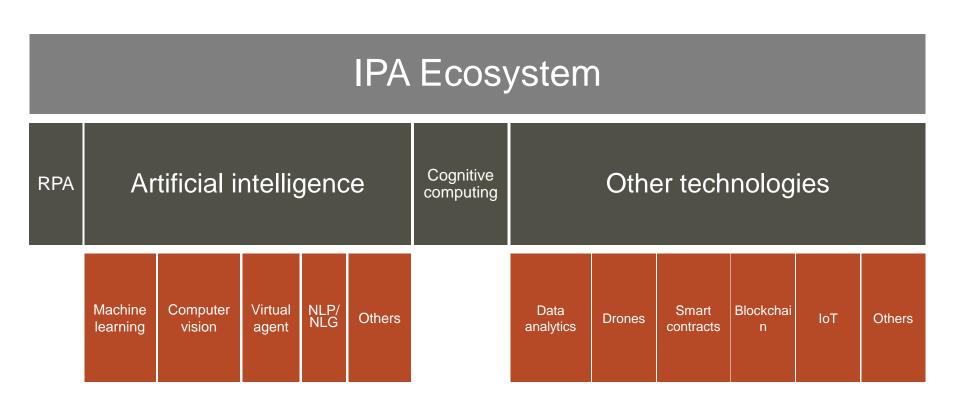
Intelligent Process Automation (IPA): the patterns of the process can be learned and predicted by AI, and then recommended to human.

Objective:

Establish a framework and build a prototype of IPA in audit, and evaluate their efficiency of effectiveness.

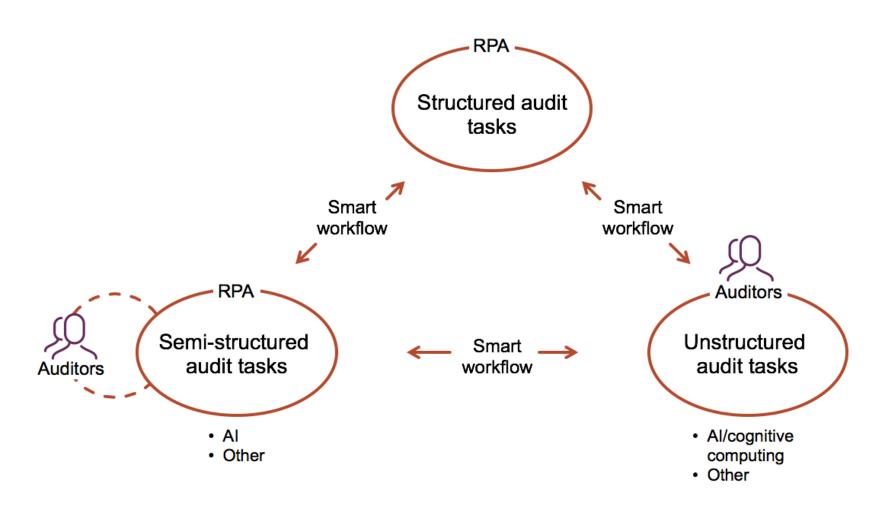


IPA Ecosystem in Audit



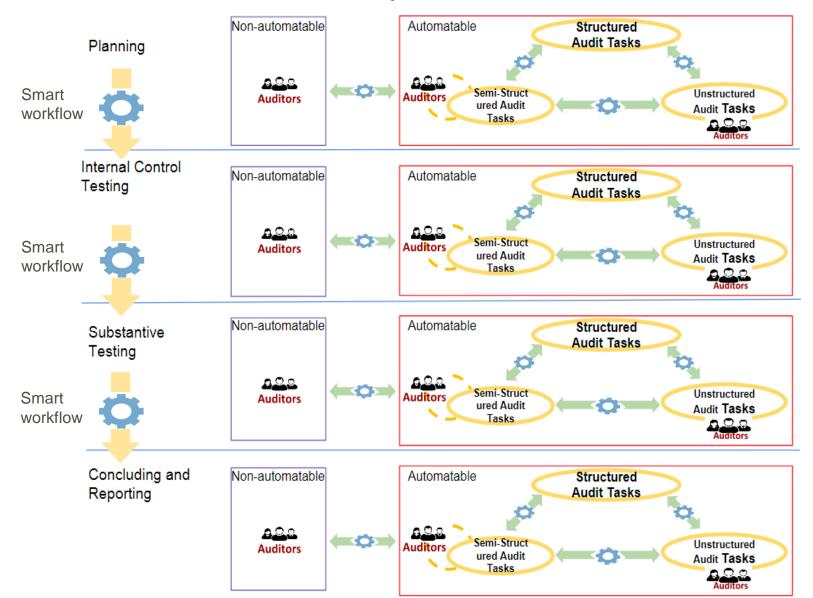
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The "Auditor-in-the-Loop" IPA Ecosystem



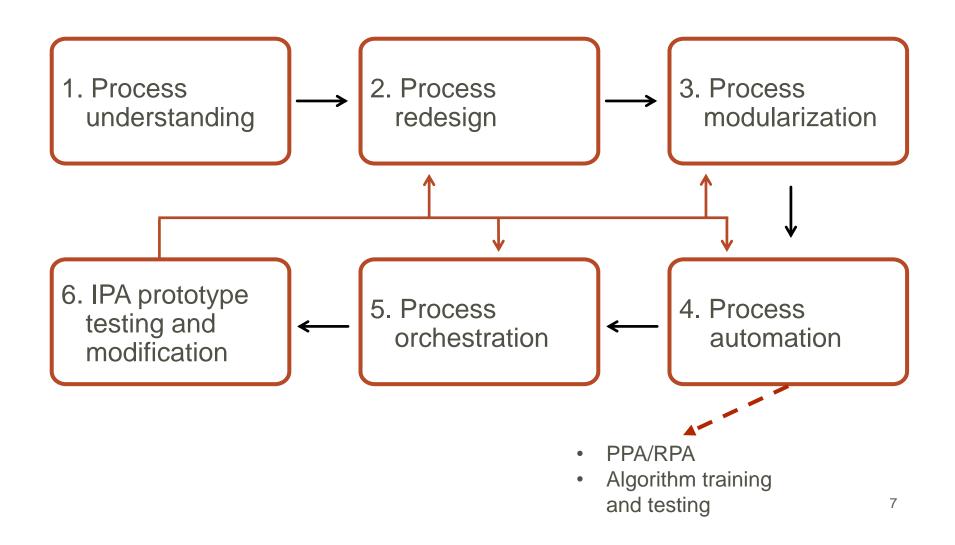


The Audit Workflow Driven by IPA



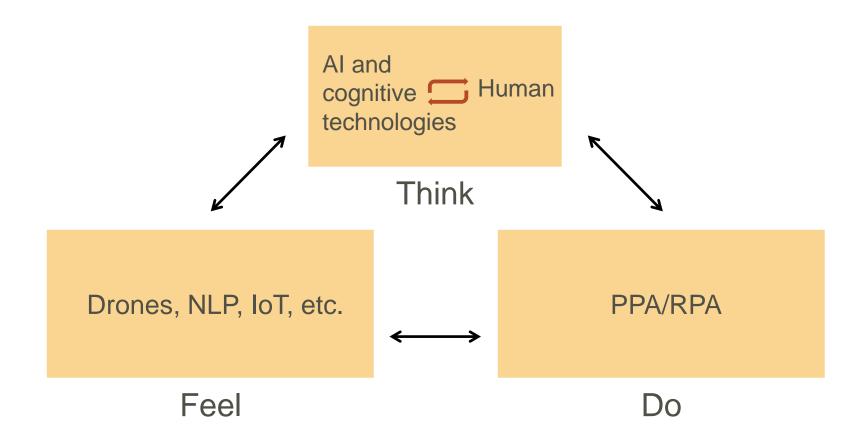


Framework of Implementing IPA in Audit





Potential Application of IPA in Audit-Inventory testing





Ongoing and Future Research



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- - Prototypes in audits
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"If we knew what it was we were doing, it would not be called research, would it?" -Albert Einstein

