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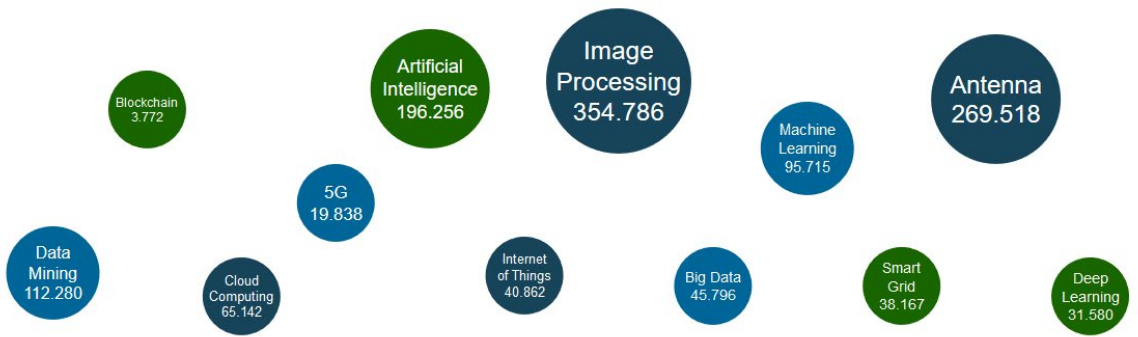
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Abstract

Document Sections

- I. Introduction
- II. The CT-Analyst Emergency Response Tool
- III. CT-Analyst Validation
- IV. Implementation at the Hamburg Fire Brigade
- V. Extensions Under Development

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Abstract:
First responders need a more or less instant estimate of danger zones resulting from accidental airborne releases of hazardous materials in order to take immediate action, to coordinate rescue teams and to protect the population and critical infrastructure. To fulfill the need for efficient access to reliable results in a first responders environment while maintaining sufficient dispersion modeling accuracy, pre-computed high-resolution CFD modeling can be combined with 'physical data reduction' in an emergency assessment tool. This approach, specific to the geometry of the city of Hamburg, has been adopted by the Fire Brigade in Hamburg, Germany.

Published in: 2016 IEEE Symposium on Technologies for Homeland Security (HST)
Date of Conference: 10-11 May 2016 **INSPEC Accession Number:** 16305033
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SECTION I. Introduction

A. Motivation
Rapid and reliable airborne hazmat dispersion modeling is a core component of efficient and adequate emergency response. Within minutes after a release, appropriate measures



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