# SEARCH PROCESS

**Search string**: ("multi-robot" OR "service robots" OR "multi-purpose robots" OR "general-purpose robots" OR "mobile robots") AND ("mission specification" OR "mission modeling" OR "mission engineering" OR "mission requirements" OR "requirements elicitation" OR "requirements engineering") AND (techniques OR paradigms OR formalisms OR methods OR approaches OR frameworks OR patterns OR languages)

## Step 1 - Search without pre-filters

Scopus (1300)

ALL(("multi-robot" OR "service robots" OR "multi-purpose robots" OR "general-purpose robots" OR "mobile robots") AND ("mission specification" OR "mission modeling" OR "mission engineering" OR "mission requirements" OR "requirements elicitation" OR "requirements engineering") AND (techniques OR paradigms OR formalisms OR methods OR approaches OR frameworks OR patterns OR languages))

ACM (319)

AllField:(("multi-robot" OR "service robots" OR "multi-purpose robots" OR "general-purpose robots" OR "mobile robots") AND ("mission specification" OR "mission modeling" OR "mission engineering" OR "mission requirements" OR "requirements elicitation" OR "requirements engineering") AND (techniques OR paradigms OR formalisms OR methods OR approaches OR frameworks OR patterns OR languages))

IEEE (81)

("All Metadata":"multi-robot" OR "All Metadata":"service robots" OR "All Metadata":"multi-purpose robots" OR "All Metadata":"general-purpose robots" OR "All Metadata":"mobile robots") AND ("All Metadata":"mission specification" OR "All Metadata":"mission modeling" OR "All Metadata":"mission engineering" OR "All Metadata":"mission requirements" OR "All Metadata":"requirements elicitation" OR "All Metadata":"requirements engineering") AND ("All Metadata":techniques OR "All Metadata":paradigms OR "All Metadata":formalisms OR "All Metadata":methods OR "All Metadata":approaches OR "All Metadata":frameworks OR "All Metadata":patterns OR "All Metadata":languages)

WoS (56)

ALL=(( "multi-robot" OR "service robots" OR "multi-purpose robots" OR "general-purpose robots" OR "mobile robots" ) AND ( "mission specification" OR "mission modeling" OR "mission engineering" OR "mission requirements" OR "requirements elicitation" OR "requirements engineering" ) AND ( techniques OR paradigms OR formalisms OR methods OR approaches OR frameworks OR patterns OR languages ))

## Step 2 - Search for the string only Title, Abstract and Keywords

Scopus (85)

((TITLE("multi-robot") OR ABS("multi-robot") OR AUTHKEY("multi-robot")) OR (TITLE("service robots") OR ABS("service robots") OR AUTHKEY("service robots")) OR (TITLE("multi-purpose robots") OR ABS("multi-purpose robots") OR AUTHKEY("multi-purpose robots")) OR (TITLE("general-purpose robots") OR ABS("general-purpose robots") OR AUTHKEY("general-purpose robots")) OR (TITLE("mobile robots") OR ABS("mobile robots") OR AUTHKEY("mobile robots"))) AND ((TITLE("mission specification") OR ABS("mission specification") OR AUTHKEY("mission specification")) OR (TITLE("mission modeling") OR ABS("mission modeling") OR AUTHKEY("mission modeling")) OR (TITLE("mission engineering") OR ABS("mission engineering") OR AUTHKEY("mission engineering")) OR (TITLE("mission requirements") OR ABS("mission requirements") OR AUTHKEY("mission requirements")) OR (TITLE("requirements elicitation") OR ABS("requirements elicitation") OR AUTHKEY("requirements elicitation")) OR (TITLE("requirements engineering") OR ABS("requirements engineering") OR AUTHKEY("requirements engineering"))) AND ((TITLE(techniques) OR ABS(techniques) OR AUTHKEY(techniques)) OR (TITLE(paradigms) OR ABS(paradigms) OR AUTHKEY(paradigms)) OR (TITLE(formalisms) OR ABS(formalisms) OR AUTHKEY(formalisms)) OR (TITLE(methods) OR ABS(methods) OR AUTHKEY(methods)) OR (TITLE(approaches) OR ABS(approaches) OR AUTHKEY(approaches)) OR (TITLE(frameworks) OR ABS(frameworks) OR AUTHKEY(frameworks)) OR (TITLE(patterns) OR ABS(patterns) OR AUTHKEY(patterns)) OR (TITLE(languages) OR ABS(languages) OR AUTHKEY(languages)))

ACM (25)

((Title:("multi-robot") OR Abstract:("multi-robot") OR Keyword:("multi-robot")) OR (Title:("service robots") OR Abstract:("service robots") OR Keyword:("service robots")) OR (Title:("multi-purpose robots") OR Abstract:("multi-purpose robots") OR Keyword:("multi-purpose robots")) OR (Title:("general-purpose robots") OR Abstract:("general-purpose robots") OR Keyword:("general-purpose robots")) OR (Title:("mobile robots") OR Abstract:("mobile robots") OR Keyword:("mobile robots"))) AND ((Title:("mission specification") OR Abstract:("mission specification") OR Keyword:("mission specification")) OR (Title:("mission modeling") OR Abstract:("mission modeling") OR Keyword:("mission modeling")) OR (Title:("mission engineering") OR Abstract:("mission engineering") OR Keyword:("mission engineering")) OR (Title:("mission requirements") OR Abstract:("mission requirements") OR Keyword:("mission requirements")) OR (Title:("requirements elicitation") OR Abstract:("requirements elicitation") OR Keyword:("requirements elicitation")) OR (Title:("requirements engineering") OR Abstract:("requirements engineering") OR Keyword:("requirements engineering"))) AND ((Title:(techniques) OR Abstract:(techniques) OR Keyword:(techniques)) OR (Title:(paradigms) OR Abstract:(paradigms) OR Keyword:(paradigms)) OR (Title:(formalisms) OR Abstract:(formalisms) OR Keyword:(formalisms)) OR (Title:(methods) OR Abstract:(methods) OR Keyword:(methods)) OR (Title:(approaches) OR Abstract:(approaches) OR Keyword:(approaches)) OR (Title:(frameworks) OR Abstract:(frameworks) OR Keyword:(frameworks)) OR (Title:(patterns) OR

Abstract:(patterns) OR Keyword:(patterns)) OR (Title:(languages) OR Abstract:(languages) OR Keyword:(languages)))

IEEE(27)

(("Document Title":"multi-robot" OR "Abstract":"multi-robot" OR "Author Keywords":"multi-robot") OR ("Document Title":"service robots" OR "Abstract":"service robots" OR "Author Keywords":"service robots") OR ("Document Title":"multi-purpose robots" OR "Abstract":"multi-purpose robots" OR "Author Keywords":"multi-purpose robots") OR ("Document Title":"general-purpose robots" OR "Abstract":"general-purpose robots" OR "Author Keywords":"general-purpose robots") OR ("Document Title":"mobile robots" OR "Abstract":"mobile robots" OR "Author Keywords":"mobile robots")) AND (("Document Title":"mission specification" OR "Abstract":"mission specification" OR "Author Keywords":"mission specification") OR ("Document Title":"mission modeling" OR "Abstract":"mission modeling" OR "Author Keywords":"mission modeling") OR ("Document Title":"mission engineering" OR "Abstract":"mission engineering" OR "Author Keywords":"mission engineering") OR ("Document Title":"mission requirements" OR "Abstract":"mission requirements" OR "Author Keywords":"mission requirements") OR ("Document Title":"requirements elicitation" OR "Abstract":"requirements elicitation" OR "Author Keywords":"requirements elicitation") OR ("Document Title":"requirements engineering" OR "Abstract":"requirements engineering" OR "Author Keywords":"requirements engineering")) AND (("Document Title":techniques OR "Abstract":techniques OR "Author Keywords":techniques) OR ("Document Title":paradigms OR "Abstract":paradigms OR "Author Keywords":paradigms) OR ("Document Title":formalisms OR "Abstract":formalisms OR "Author Keywords":formalisms) OR ("Document Title":methods OR "Abstract":methods OR "Author Keywords":methods) OR ("Document Title":approaches OR "Abstract":approaches OR "Author Keywords":approaches) OR ("Document Title":frameworks OR "Abstract":frameworks OR "Author Keywords":frameworks) OR ("Document Title":patterns OR "Abstract":patterns OR "Author Keywords":patterns) OR ("Document Title":languages OR "Abstract":languages OR "Author Keywords":languages))

Web of Science (49)

((TI="multi-robot" OR AB="multi-robot" OR AK="multi-robot") OR (TI="service robots" OR AB="service robots" OR AK="service robots") OR (TI="multi-purpose robots" OR AB="multi-purpose robots" OR AK="multi-purpose robots") OR (TI="general-purpose robots" OR AB="general-purpose robots" OR AK="general-purpose robots") OR (TI="mobile robots" OR AB="mobile robots" OR AK="mobile robots")) AND ((TI="mission specification" OR AB="mission specification" OR AK="mission specification") OR (TI="mission modeling" OR AB="mission modeling" OR AK="mission modeling") OR (TI="mission engineering" OR AB="mission engineering" OR AK="mission engineering") OR (TI="mission requirements" OR AB="mission requirements" OR AK="mission requirements") OR (TI="requirements elicitation" OR AB="requirements elicitation" OR AK="requirements elicitation") OR (TI="requirements engineering" OR AB="requirements engineering" OR AK="requirements engineering")) AND ((TI=techniques OR AB=techniques OR AK=techniques) OR (TI=paradigms OR AB=paradigms OR AK=paradigms) OR (TI=formalisms OR AB=formalisms OR AK=formalisms) OR (TI=methods OR AB=methods OR AK=methods)

OR (TI=approaches OR AB=approaches OR AK=approaches) OR (TI=frameworks OR AB=frameworks OR AK=frameworks) OR (TI=patterns OR AB=patterns OR AK=patterns) OR (TI=languages OR AB=languages OR AK=languages))

## Step 3 - Papers from Computer Science, Engineering and similar areas

Scopus (83)

Limited to Computer Science
Limited to Engineering
Limited to Business, Management and Accounting

ACM (25)

Not applicable

IEEE (27)

Not applicable

Web of Science (49)

Refined By:
Research Areas: Robotics or Computer Science or Automation Control Systems or Engineering or Transportation or Business Economics or Instruments Instrumentation or Mechanics or Remote Sensing or Science Technology Other Topics or Telecommunications.

## Step 4 - Papers published after 2014

Scopus (61)

PUBYEAR > 2013 AND PUBYEAR < 2026

ACM (21)

[E-Publication Date: (01/01/2014 TO 12/31/2025)]

IEEE (21)

Filters Applied: 2014 - 2024 (The search did not return papers published in 2025)

Web of Science (37)

Publication Years: 2020 or 2024 or 2018 or 2019 or 2021 or 2022 or 2023 or 2015 or 2014 or 2016 (The search did not return papers published in 2025a and 2017)