PRIMARY STUDIES CLA	ASSIFICATION
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Table 1 - Robotic Platform		
	Primary Studies	
Not Specified	P2, P4, P5, P8, P10, P11, P12, P16, P17, P18, P23, P28, S02, S04, S06, S07, S08, S10, S13, S14, S15, S17, S19, S21, S22, S24, S27, S30, S31	
Turtlebot	P7, P13, P24, P25, P29, P32, S01, S12, S16, S23	
Kobuki	P6, P22, S01, S11	
Care-o-bot	P20, S09, S28	
KUKA robot	P26, P27	
AgRob	S05, S16	
PR2	P29, S28	
Telerob Telemax UGV	P1	
Twist T4 2x2 Electric Wheelchair	P3	
FPGA	P9	
Flightgoggles Quadrotor		
Parrot Anafi Quadrotor		
M4K		
EvoRally	P19	
CAT (Ford Hybrid Escape)		
Landshark		
RaspberryPi		
FASTEN/Embraer Prototype		
M3-Neony		
NAO Humanoid		
Auto-ID Based Control Demo	S03	
	Table 2 - ROS Ecosystem Level	
	Primary Studies	
Filesystem	P1, P2, P3, P4, P5, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P29, P32, S01, S02, S03, S05, S06, S07, S09, S11, S14, S17, S21, S22, S23, S24, S25, S27, S28, S29, S30, S31	
Computation Graph	P1, P2, P3, P4, P6, P7, P8, P9, P11, P13, P14, P17, P18, P19, P20, P21, P22, P24, P25, P30, S05, S08, S09, S10, S11, S14, S15, S16, S18, S20, S26	
Community	P4, P7, P8, P12, P13, P16, P23, P28, P31, S04, S12, S13, S19	
	Table 3 - Communication Paradigm	
	Primary Studies	
Topic	P1, P2, P3, P6, P7, P8, P9, P11, P13, P17, P18, P19, P20, P21, P22, P24, P25, P26, P30, S01, S05, S08, S09, S10, S11, S12, S14, S16, S18, S20, S22, S25, S26, S31	
-	P4, P5, P10, P12, P14, P15, P16, P23, P27, P28, P29, P31, P32, S02, S03, S04, S06, S07, S13, S15, S17, S19, S21, S23, S24, S27, S28, S29, S30	
	P3, P8, P11, P20, P22, P26, P30, S08, S09, S12, S16	
Shared Memory	P3, S20	
	Table 4. Quality Attribute	
	Table 4 - Quality Attribute  Primary Studies	
Functional Suitability	P2, P3, P6, P10, P11, P13, P14, P15, P18, P19, P20, P25, S01, S02, S03, S07, S08, S09, S10, S13, S15, S23, S26, S27, S29	
Maintainability	P1, P3, P4, P5, P8, P9, P10, P11, P12, P16, P22, P23, P24, P25, P30, S04, S06, S09, S16,	
	S21, S25	
Portability	P1, P8, P12, P14, P16, P18, P19, P21, P23, P24, P25, P30, S03, S11, S13, S14	

Doliability	D1 D4 D6 D7 D0 D10 C07 C17 C10 C22 C26 C27 C20 C21		
	P1, P4, P6, P7, P8, P19, S07, S17, S18, S22, S26, S27, S29, S31		
	P1, P8, P12, P13, P16, P17, P24, P31, S06, S13, S17, S19, S21		
•	P4, P8, P25, P27, P28, S05, S17, S18, S24		
Performance Efficiency	P26, P32, S12, S20, S28, S30, S31		
	Table E. Type of Debot		
	Table 5 - Type of Robot		
Mahila	Primary Studies		
Mobile	P1, P3, P4, P6, P7, P13, P15, P18, P19, P20, P21, P22, P24, P25, P26, P29, P30, P31, P32, S01, S05, S09, S10, S11, S12, S16, S22, S23, S25, S26, S29, S31		
-	P5, P9, P10, P11, P12, P16, P17, P28, S02, S04, S06, S13, S14, S15, S17, S18, S19, S21, S24, S27, S28		
Fixed	P2, P27, S03, S08, S20		
airborne	P14, P25, S07, S30		
	Table 6 - Cardinality		
	Primary Studies		
Single	P1, P2, P3, P4, P6, P7, P13, P14, P15, P19, P20, P21, P22, P24, P26, P27, P29, P30, P31, P32, S02, S03, S05, S07, S08, S09, S10, S11, S12, S14, S16, S22, S23, S25, S26, S28, S29, S30		
-	P5, P8, P9, P10, P11, P12, P16, P17, P23, P28, S04, S06, S13, S17, S18, S19, S21, S24, S27		
Multiple	P18, P25, S01, S02, S15, S20, S31		
	Table 7 - Application Field		
	Primary Studies		
-	P5, P10, P11, P12, P16, P17, P21, P28, S02, S04, S05, S13, S14, S15, S16, S17, S18, S19, S21, S24, S25, S27, S28		
Navigation task	P6, P7, P13, P14, P15, P19, P24, P29, P32, S11, S12, S22, S23, S26, S28, S29, S31		
	P2, P9, P22, P26, P27, P30, S01, S03, S06, S10		
Multiple	P8, P23, P27, S08, S20		
Unmanned	P25, S28, S30		
	P21, S25, S28		
	P20, P31, S28		
	P3, S09		
Search and rescue	P1		
Military			
Leader/Follower			
	Table 8 - ROS Version		
	Primary Studies		
ROS1	P26, P27, P28, P29, P30, P31, P32, S01, S02, S03, S04, S05, S06, S08, S09, S10, S11, S12,		
	S13, S14, S15, S16, S17, S18, S19, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31		
	P28, S04, S06, S07, S10, S12, S13, S20		
NOT RESTRICTED	P1, P3, P6, P9, P10, P13, P14, P16, P17, P18, P19, P20, P21, P22, P24, P25		
	Table 0. Knowledge Area		
	Table 9 - Knowledge Area		
211.5	Primary Studies		
	P1, P7, P8, P9, P15, P21, P24, P26, P27, S01, S02, S03, S07, S08, S12, S13, S16, S17, S26, S27, S28, S31		
SWE Models and Methods	P1, P2, P3, P6, P7, P11, P18, P19, P20, P24, P25, S02, S05, S09, S14, S16, S17, S21, S27, S31		
SW Quality	P4, P20, P28, P32, S01, S05, S06, S12, S15, S18, S19, S20, S21, S22, S24, S25, S28, S29		
SW Maintenance	P12, P16, P23, P28, P30, S08, S11, S14, S16, S25, S28		
SW Testing	P5, P10, P14, P17, P18, P22, P23, S06, S10, S22, S29		
SW Construction	P13, P23, P31, S03, S30		
SW Configuration Management	P5, P7, P11, P24		
SW Requirement	S07, S18, S19, S23		
SWE Professional Practice	S03, S13		

Computing Foundations	P14, P29	
Table 10 - Research Strategy		
	Primary Studies	
Proposal of a Solution	P1, P2, P3, P4, P5, P6, P7, P9, P11, P14, P15, P17, P18, P19, P20, P21, P22, P24, P25, P26, P27, P29, S01, S02, S03, S05, S06, S07, S08, S09, S10, S11, S14, S15, S16, S18, S21, S22, S23, S26, S27, S29, S31	
Evaluation Research	P5, P8, P12, P13, P16, P23, P28, P30, P31, P32, S03, S05, S12, S13, S15, S16, S19, S20, S24, S25, S28, S30	
Validation Research	P1, P3, P6, P7, P14, P15, P18, P19, P21, P24, P25, P26, S12	
Philosophical Paper	P10, S04, S17	
Table 11 - Research Method		
	Primary Studies	
Lab Experiment	P13, P15, P25, P26, P27, P29, P32, S01, S02, S06, S09, S11, S12, S19, S20, S23, S24, S26, S27	
Simulation-based Experiment	P1, P7, P14, P18, P19, P21, P24, P25, P31, P32, S03, S08, S10, S18, S22, S30, S31	
Proof of Concept	P2, P4, P6, P9, P10, P11, P17, P20, P22, P30, S07	
Real Deployment	P3, P14, P28, S05, S14, S15, S16, S25, S28, S29	
Mining SW Repositories	P5, P8, P12, S04, S12, S13, S17, S21	
Survey	P8, P16, P23	
Interview	P16, P23	
	Table 12 - Future Challenges and Limitations	
	Primary Studies	
Multi-language/platform Support	P2, P11, P14, P15, P17, P20, P22, P27, P29, P31, S01, S08, S09, S10, S11, S13, S15, S16, S20, S24, S25, S29	
Further validation	P1, P4, P10, P11, P13, P21, P24, P25, P26, P29, S03, S07, S11, S17, S20, S21, S26, S28, S30	
Lack of generalization	P1, P7, P13, P16, P30, P32, S03, S06, S10, S12, S13, S14, S16, S17, S28	
Support for Complex Specification	P2, P11, P22, P25, S01, S05, S09, S14, S22, S23, S26, S28, S29	
Automation	P4, P6, P8, P10, P16, S03, S08, S09, S10, S15, S23	
Performance Improvements	P9, P14, P15, P21, P22, S03, S15, S18, S20, S29	
ipport for More Reference Sources	P8, P20, P23, P28, S05, S15, S17, S21, S26	
Evaluation of Quality Attributes	P3, P4, P10, S09, S18	
Enable Self-adaptation	P18, S23	
Run-time Support	P7, P17	
Support for Real-time Properties	P25	
Machine Learning Integration	P19	