

Mechanical design technology and application items

Item	Representatives			DOI	Item	Representatives			DOI
th9A11	a4	b15	ch2	https://doi.org/10.1016/0921-8890(88)90020-6	th4A20	a3	b2	ch2	https://doi.org/10.22260/isarc2011/0265
th25A54		b67	ch2	https://doi.org/10.4043/5708-ms	th10A19	a3	b16	ch2	https://doi.org/10.22260/isarc2011/0223
th35A21	a2	b2	ch6	https://doi.org/10.1061/(asce)0733-9364(1989)115:3(412)	th20A12	a3	b57	ch2	https://doi.org/10.22260/isarc2011/0266
th141A7	a4	b12	ch6	https://doi.org/10.1016/0921-8890(89)90032-8	th26A17		b49	ch2	https://doi.org/10.22260/isarc2011/0125
th157A50		b52	ch3	https://doi.org/10.1109/iros.1989.637897	th28A19			ch2	https://doi.org/10.22260/isarc2011/0272
th35A7	a2	b2	ch6	https://doi.org/10.1080/02630259008970581	th28A38			ch2	https://ieeexplore.ieee.org/abstract/document/6060381
th36A7	a3	b12	ch6	https://doi.org/10.1061/(asce)0887-3801(1992)6:3(370)	th28A17			ch2	https://doi.org/10.22260/isarc2011/0230
th61A29	a5	b27	ch2	https://doi.org/10.1016/0926-5805(92)90017-e	th68A33	a2	b45	ch2	https://ieeexplore.ieee.org/abstract/document/6106197
th62A7	a2	b2	ch1	https://doi.org/10.22260/isarc1993/0044	th82A41	a2	b61	ch6	https://doi.org/10.22260/isarc2011/0011
th156A6	a3	b12	ch1	https://doi.org/10.1016/0926-5805(92)90038-1	th97A45	a5	b26	ch2	https://doi.org/10.22260/isarc2011/0277
th157A47		b52	ch3	https://cedb.asce.org/CEDBsearch/record.jsp?dockey=0076716	th119A56	a2		ch1	https://doi.org/10.1016/j.proeng.2011.08.198
th123A31	a2	b52	ch2	https://doi.org/10.1061/(ASCE)0733-9364(1992)118:4(731)	th148A8	a6	b24	ch2	https://doi.org/10.22260/isarc2011/0222
th33A20	a3	b21	ch2	https://doi.org/10.1016/0926-5805(93)90043-W	th153A6	a3	b2	ch3	https://doi.org/10.1016/j.autcon.2010.12.005
th36A21	a3	b12	ch6	https://doi.org/10.1016/0926-5805(93)90036-w	th22A6	a3	b32	ch2	https://ieeexplore.ieee.org/abstract/document/6454459
th39A22	a3	b55	ch2	https://doi.org/10.1061/(asce)0893-1321(1993)6:1(19)	th27A28	a3	b46	ch2	https://doi.org/10.1109/iros.2012.6386278
th126A6	a5	b2	ch2	https://doi.org/10.1109/iros.1993.583154	th28A38			ch2	https://doi.org/10.20965/jrm.2012.p0985
th142A7	a4	b12	ch2	https://doi.org/10.1016/0926-5805(93)90042-v	th63A3	a3	b32	ch3	https://doi.org/10.3182/20120523-3-ro-2023.00341
th13A29	a3	b7	ch2	https://doi.org/10.1016/b978-0-444-82044-0.50081-3	th64A10		b30	ch3	https://doi.org/10.22260/isarc2012/0079
th19A22	a2	b2	ch2	https://doi.org/10.1016/b978-0-444-82044-0.50017-5	th115A55	a3	b4	ch2	https://doi.org/10.1016/j.autcon.2012.03.005
th22A58	a3	b32	ch2	https://doi.org/10.1061/(asce)0733-9364(1994)120:1(132)	th129A6	a3	b74	ch2	https://doi.org/10.1016/j.autcon.2011.06.003
th23A24		b32	ch2	https://doi.org/10.1016/0926-5805(94)90035-3	th8A8	a3	b2	ch3	https://doi.org/10.1016/j.autcon.2012.12.011
th25A53		b67	ch2	https://cedb.asce.org/CEDBsearch/record.jsp?dockey=0086321	th13A29	a3	b7	ch2	https://doi.org/10.22260/isarc2013/0153
th40A22	a2	b56	ch2	https://doi.org/10.1109/iros.1994.407628	th51A7		b30	ch2	https://doi.org/10.1109/aim.2013.6584222
th60A34	a3	b12	ch2	https://doi.org/10.1016/0926-5805(94)90027-2	th58A28		b44	ch3	https://doi.org/10.1007/978-1-4614-1418-6_5
th98A6	a3	b19	ch2	https://doi.org/10.1016/b978-0-444-82044-0.50084-9	th64A10		b30	ch3	https://doi.org/10.1016/j.autcon.2013.01.008
th151A27		b52	ch1	https://doi.org/10.1016/0926-5805(94)90037-x	th107A5			ch1	https://doi.org/10.1016/j.autcon.2013.01.017
th10A11	a3	b16	ch2	https://doi.org/10.1016/0926-5805(95)00005-1	th140A63	a6	b57	ch2	https://doi.org/10.1016/j.autcon.2012.08.006

th25A54		b67	ch2	https://www.scopus.com/inward/record.uri?eid=2-s2.0.0029292557&partnerID=40&md5=3e456473ab91e826f09267d7539b2a29	th147A8	a2	b7	ch3	https://doi.org/10.1007/978-1-4614-1418-6_4
th25A54		b67	ch2	https://www.nipponsteel.com/en/tech/report/nsc/pdf/6507.pdf	th149A10	a3	b62	ch3	https://doi.org/10.1007/978-1-4614-1418-6_4
th28A11			ch2	https://www.scopus.com/inward/record.uri?eid=2-s2.0.0029323997&partnerID=40&md5=6e6a19d34bd24151a2e090bcd593f82b	th4A6	a3	b2	ch2	https://doi.org/10.1016/j.autcon.2014.06.005
th34A20	a3	b32	ch2	https://doi.org/10.1016/0926-5805(95)00008-o	th26A10		b49	ch2	https://doi.org/10.22260/isarc2014/0134
th49A34		b36	ch2	https://doi.org/10.1016/0926-5805(94)00043-m	th31A2		b1	ch2	https://doi.org/10.1109/iccas.2014.6987959
th88A44	a3	b2	ch6	https://doi.org/10.1109/iros.1995.526255	th46A34		b58	ch2	https://doi.org/10.1007/s10846-013-9948-x
th124A59	a2	b12	ch2	https://doi.org/10.1109/robot.1994.351124	th47A5	a3	b58	ch2	https://doi.org/10.1016/j.autcon.2014.01.004
th1A1	a2	b32	ch2	https://doi.org/10.1016/0926-5805(95)00010-0	th72A34		b42	ch3	https://doi.org/10.1002/ad.1763
th25A54		b67	ch2	https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=200902164462768987	th105A47	a2	b2	ch3	https://doi.org/10.1109/tase.2013.2241425
th41A22	a5	b12	ch2	https://doi.org/10.1016/0926-5805(95)00009-7	th120A56	a3	b32	ch1	https://doi.org/10.3846/13923730.2015.1023349
th59A28	a3	b15	ch2	https://doi.org/10.1299/kikaic.62.658	th121A57	a3	b83	ch2	https://doi.org/10.1016/j.autcon.2013.06.010
th64A50		b30	ch3	https://cedb.asce.org/CEDBsearch/record.jsp?dockkey=0100671	th131A6	a3	b71	ch2	https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full505_514402.pdf
th127A6	a3	b36	ch2	https://doi.org/10.1061/(asce)0733-9364(1992)118:4(731)	th137A55	a2	b2	ch1	https://doi.org/10.1109/iccas.2014.6987825
th28A17			ch2	https://doi.org/10.1016/0926-5805(95)00018-6	th2A6	a3	b52	ch2	https://doi.org/10.22260/isarc2015/0070
th8A8	a3	b2	ch3	https://doi.org/10.1109/iros.1997.656583	th29A28	a3	b45	ch3	https://doi.org/10.1109/iccas.2015.7364817
th11A11	a3	b17	ch2	https://doi.org/10.1016/s0926-5805(97)00004-6	th30A19	a2	b57	ch2	https://doi.org/10.1016/j.autcon.2015.07.006
th13A8	a3	b7	ch2	https://doi.org/10.22260/isarc1996/0031	th43A22		b54	ch2	https://www.researchgate.net/publication/292970258_Between_Manual_and_Robotic_Approaches_to_Brick_Construction_in_Architecture
th24A17	a2	b67	ch2	https://doi.org/10.1016/s0926-5805(98)00083-1	th52A29	a6	b13	ch2	https://doi.org/10.1109/icit.2015.7125568
th60A54	a3	b12	ch2	https://www.scopus.com/inward/record.uri?eid=2-s2.0.0032137399&partnerID=40&md5=ea005ced8130b725438f6a0afbc7ceef	th116A55	a3	b5	ch2	https://doi.org/10.1016/j.ifacol.2015.06.048
th62A29	a2	b2	ch1	https://www.scopus.com/inward/record.uri?eid=2-s2.0.0032137399&partnerID=40&md5=ea005ced8130b725438f6a0afbc7ceef	th121A57	a3	b83	ch2	https://doi.org/10.1016/j.autcon.2014.12.013

th106A49		b49	ch6	https://doi.org/10.1109/tcdllm.1998.668331	th14A37		b7	ch2	https://doi.org/10.1016/j.autcon.2015.09.011
th12A11	a2	b7	ch2	https://doi.org/10.1061/40337(205)30	th23A29		b32	ch2	https://doi.org/10.1007/978-3-319-08338-4_99
th19A12	a2	b2	ch2	https://doi.org/10.1016/s0926-5805(99)00041-2	th29A29	a3	b45	ch3	https://doi.org/10.22260/isarc2016/0125
th96A45	a3	b34	ch2	https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033884120&doi=10.1016%2fs0926-5805%2899%2900040-0&partnerID=40&md5=8774fcaee713a3fa6f5ad5b9ad8f79db	th44A22	a6	b26	ch2	https://doi.org/10.22260/ISARC2016/0041
th151A56		b52	ch1	https://doi.org/10.1016/s0926-5805(00)00060-1	th73A34		b30	ch3	https://doi.org/10.1016/j.procir.2016.02.108
th152A56	a3	b67	ch1	https://doi.org/10.1299/kikaic.66.3664	th74A34	a3	b9	ch3	https://doi.org/10.22260/isarc2016/0050
th32A20	a2	b12	ch3	https://doi.org/10.5772/13043	th108A5	a2	b32	ch1	https://doi.org/10.1016/j.autcon.2016.05.009
th112A54		b11	ch2	https://doi.org/10.1016/s0926-5805(00)00104-7	th109A50		b78	ch2	http://idm-lab.org/bib/abstracts/papers/aamas16b.pdf
th85A42	a2	b3	ch1	https://doi.org/10.1111/0885-9507.00225	th109A37		b78	ch2	https://doi.org/10.3130/aijt.22.331
th128A6	a3	b70	ch2	https://doi.org/10.1163/156855302320535836	th110A50	a4	b52	ch1	https://ijsst.info/Vol-17/No-46/paper41.pdf
th143A7	a4	b33	ch2	https://doi.org/10.3182/20020721-6-es-1901.00815	th136A6	a3	b19	ch1	https://doi.org/10.1109/ccdc.2016.7531951
th40A22	a2	b56	ch2	https://doi.org/10.1109/100.993151	th15A11		b23	ch2	https://doi.org/10.1016/j.autcon.2017.02.005
th28A11			ch2	https://doi.org/10.1007/3-540-29461-9_103	th16A11	a6	b25	ch2	https://doi.org/10.22260/isarc2017/0034
th55A28	a3	b36	ch6	https://doi.org/10.1108/01439910310506774	th22A15	a3	b32	ch2	https://doi.org/10.1109/icarcv.2016.7838741
th91A56	a1	b67	ch3	https://doi.org/10.1108/01439910310492185	th22A6	a3	b32	ch2	https://doi.org/10.1051/mateconf/201712101006
th113A54	a3	b10	ch2	https://doi.org/10.1108/01439910310473979	th23A15		b32	ch2	https://doi.org/10.1109/iros.2017.8206499
th150A56	a2	b1	ch2	https://doi.org/10.1109/iros.2003.1248794	th28A6			ch2	https://doi.org/10.22260/isarc2017/0010
th152A56	a3	b67	ch1	https://doi.org/10.1080/14399776.2003.10781164	th45A22	a3	b59	ch2	https://doi.org/10.1080/23311916.2017.1361600
th14A63		b7	ch2	https://doi.org/10.1016/j.autcon.2003.08.012	th47A6	a3	b58	ch2	https://doi.org/10.1109/iros.2017.8206398
th26A8		b49	ch2	https://doi.org/10.1016/j.autcon.2003.08.009	th64A3		b30	ch3	https://doi.org/10.1007/978-3-319-49058-8_64
th28A11			ch2	https://ieeexplore.ieee.org/document/1438590	th65A30	a1	b70	ch2	https://doi.org/10.26226/morressier.59c106e8d462b80292389b97
th60A28	a3	b12	ch2	https://doi.org/10.1109/iros.2004.1389410	th67A60		b75	ch2	https://doi.org/10.1051/mateconf/201712905018
th117A55	a1	b2	ch1	https://doi.org/10.1109/ut.2004.1405598	th75A34	a5	b7	ch3	https://doi.org/10.1007/978-3-319-49058-8_60
th7A11	a5	b20	ch3	https://doi.org/10.1016/j.autcon.2004.09.008	th77A9		b2	ch2	https://doi.org/10.1061/(asce)co.1943-7862.0001268
th28A11			ch2	https://doi.org/10.22260/isarc2005/0053	th104A45	a3	b35	ch1	https://doi.org/10.1016/j.autcon.2017.07.004
th65A60	a1	b70	ch2	https://doi.org/10.22260/isarc2005/0040	th111A52		b16	ch2	https://www.researchgate.net/publication/329591348_Towards_Force-aware_Robot_Collectives_for_On-site_Construction
th81A40	a2	b49	ch3	https://doi.org/10.1109/icia.2005.1635079	th138A6	a3	b2	ch1	https://doi.org/10.22260/isarc2017/0091

th107A56			ch1	https://www.researchgate.net/publication/294214022_Graphical_simulation_of_remote_control_construction_robot_based_on_virtual_reality	th2A6	a3	b52	ch2	https://doi.org/10.22260/isarc2018/0027
th129A6	a3	b74	ch2	https://doi.org/10.22260/isarc2005/0056	th4A6	a3	b2	ch2	https://doi.org/10.1016/j.autcon.2017.12.001
th130A6	a3	b70	ch2	https://doi.org/10.22260/isarc2005/0057	th5A11		b27	ch2	https://doi.org/10.1016/j.ifacol.2018.08.403
th8A11	a3	b2	ch3	https://doi.org/10.1002/rob.20122	th6A11		b13	ch2	https://doi.org/10.1016/j.autcon.2018.02.005
th18A11	a3	b32	ch1	https://doi.org/10.22260/isarc2006/0150	th16A11	a6	b25	ch2	https://doi.org/10.29007/hj27
th25A34		b67	ch2	https://doi.org/10.1016/j.autcon.2005.10.013	th22A6	a3	b32	ch2	https://doi.org/10.1016/j.autcon.2018.07.003
th51A59		b30	ch2	https://doi.org/10.22260/isarc2006/0092	th23A30		b32	ch2	https://doi.org/10.1061/9780784481899.029
th53A23	a3	b66	ch2	https://doi.org/10.22260/isarc2006/0047	th28A28			ch2	https://doi.org/10.22260/isarc2018/0171
th84A41	a1	b30	ch1	https://doi.org/10.1163/156855306775525811	th28A19			ch2	https://www.researchgate.net/publication/327939855_Smart_construction_robot_technology_to_improve_construction_and_safety_in_outer_walls_of_high-rise_buildings
th86A42		b3	ch1	https://doi.org/10.22260/isarc2006/0120	th42A22	a6	b53	ch2	https://doi.org/10.1109/simpar.2018.8376287
th89A44			ch3	https://doi.org/10.1109/sice.2006.314939	th44A22	a6	b26	ch2	https://link.springer.com/chapter/10.1007/978-3-319-68646-2_3
th94A56	a2		ch1	https://doi.org/10.1109/iroso.2006.281913	th46A22		b58	ch2	https://doi.org/10.1016/j.autcon.2018.06.015
th118A55	a2	b3	ch1	https://doi.org/10.22260/isarc2006/0009	th76A34	a6	b25	ch2	https://doi.org/10.1007/978-3-319-61431-1_30
th1A1	a2	b32	ch2	https://doi.org/10.22260/isarc2007/0040	th77A6		b2	ch2	https://doi.org/10.1016/j.autcon.2018.02.021
th8A11	a3	b2	ch3	https://doi.org/10.1007/s10514-006-9019-2	th98A45	a3	b19	ch2	https://doi.org/10.1016/j.autcon.2018.09.006
th8A44	a3	b2	ch3	https://doi.org/10.1007/s10514-006-9022-7	th99A45	a3	b37	ch2	https://doi.org/10.1016/j.autcon.2018.03.015
th16A63	a6	b25	ch2	https://doi.org/10.1115/detc2006-99016	th114A54		b14	ch2	https://doi.org/10.1007/978-3-319-99704-9_37
th38A21	a2	b69	ch1	https://doi.org/10.1016/j.autcon.2006.09.002	th125A6	a3	b73	ch3	https://doi.org/10.1016/j.autcon.2018.02.013
th56A28	a3	b42	ch3	https://doi.org/10.22260/isarc2007/0044	th132A6		b72	ch2	https://doi.org/10.22260/isarc2018/0074
th63A6	a3	b32	ch3	https://doi.org/10.1016/j.autcon.2006.05.003	th132A6		b72	ch2	https://doi.org/10.22260/isarc2018/0030
th70A34		b60	ch3	https://doi.org/10.1109/iccas.2007.4406518	th133A6	a3	b3	ch2	https://doi.org/10.22260/isarc2018/0097
th80A6	a3	b58	ch2	https://doi.org/10.1016/j.autcon.2006.12.010	th154A6	a3	b46	ch2	https://doi.org/10.5220/0006930205340541
th90A44		b67	ch3	https://doi.org/10.1007/s10514-006-9722-z	th14A44		b7	ch2	https://doi.org/10.1109/etfa.2019.8869343
th93A44		b2	ch1	https://doi.org/10.22260/isarc2007/0046	th16A22	a6	b25	ch2	https://doi.org/10.1002/bate.201800090
th146A8		b26	ch2	https://doi.org/10.1109/iccas.2007.4406667	th17A11	a6	b28	ch2	https://doi.org/10.22260/isarc2019/0089
th25A63		b67	ch2	https://doi.org/10.1016/j.autcon.2006.12.003	th21A13		b31	ch3	https://doi.org/10.1007/978-3-030-05321-5_11
th2A1	a3	b52	ch2	https://doi.org/10.1016/j.autcon.2006.12.003	th28A30			ch2	https://doi.org/10.1016/j.autcon.2019.03.024
th13A8	a3	b7	ch2	https://doi.org/10.1109/iccas.2008.4694183	th46A6		b58	ch2	https://doi.org/10.22260/isarc2019/0128
th37A21	a2	b25	ch3	https://doi.org/10.1016/j.autcon.2007.04.004	th48A22	a3	b36	ch2	https://erp.mepcoeng.ac.in/images/Employee/Journal/Paper4141.pdf
th57A28	a3	b44	ch3	https://doi.org/10.3846/isarc.20080626.181	th51A22		b30	ch2	http://papers.cumincad.org/data/works/att/caadria2019_275.pdf
th71A34		b45	ch3	https://doi.org/10.1109/mfi.2008.4648016	th69A60	a2	b76	ch2	https://core.ac.uk/download/pdf/234021207.pdf

th ₈₉ A ₁₀			ch ₃	https://www.researchgate.net/publication/283381249_A_human-robot cooperative system helps out with glass panels in construction	th ₇₇ A ₃₇		b ₂	ch ₂	https://doi.org/10.22260/ISARC2019/0162
th ₉₅ A ₄₄	a ₃	b ₃₂	ch ₁	https://doi.org/10.1016/j.autcon.2007.08.006	th ₇₇ A ₃₇		b ₂	ch ₂	https://doi.org/10.22260/ISARC2019/0070
th ₁₂₂ A ₅₆	a ₁	b ₁₂	ch ₁	https://doi.org/10.1016/j.autcon.2008.02.004	th ₇₇ A ₄₁		b ₂	ch ₂	https://doi.org/10.1016/j.autcon.2018.11.009
th ₁₃₉ A ₆₀	a ₃	b ₁₂	ch ₃	https://doi.org/10.1016/j.autcon.2006.12.004	th ₇₉ A ₃₈	a ₃	b ₇₉	ch ₂	https://doi.org/10.1016/j.autcon.2019.102912
th ₁₄₄ A ₈	a ₂	b ₆₃	ch ₆	https://doi.org/10.1109/icsma.2008.4505571	th ₇₉ A ₃₈	a ₃	b ₇₉	ch ₂	https://doi.org/10.22260/ISARC2018/0085
th ₃ A ₁	a ₁	b ₂	ch ₂	https://doi.org/10.1016/j.autcon.2009.02.007	th ₈₆ A ₄₂		b ₃	ch ₁	https://doi.org/10.22260/ISARC2019/0154
th ₁₃ A ₈	a ₃	b ₇	ch ₂	https://doi.org/10.1109/iccas.2010.5669929	th ₈₇ A ₄₂	a ₂	b ₆₁	ch ₁	https://link.springer.com/chapter/10.1007/978-3-030-05321-5_5
th ₂₆ A ₂₉		b ₄₉	ch ₂	https://doi.org/10.22260/isarc2009/0020	th ₁₀₀ A ₄₅	a ₃	b ₃₉	ch ₂	https://doi.org/10.1016/j.autcon.2019.03.017
th ₁₂₉ A ₆	a ₃	b ₇₄	ch ₂	https://doi.org/10.1109/icmech.2009.4957126	th ₁₀₁ A ₄₅	a ₃	b ₃₈	ch ₂	https://doi.org/10.1016/j.autcon.2019.102959
th ₁₄₅ A ₈	a ₃	b ₆₃	ch ₃	https://doi.org/10.1109/icara.2000.4803937	th ₁₀₂ A ₄₅	a ₃	b ₄₁	ch ₂	https://doi.org/10.1016/j.autcon.2019.02.002
th ₈ A ₄₄	a ₃	b ₂	ch ₃	https://doi.org/10.1017/s0263574710000573	th ₁₀₃ A ₄₅	a ₃	b ₄₀	ch ₂	https://doi.org/10.1016/j.autcon.2019.01.025
th ₁₄ A ₈		b ₇	ch ₂	https://doi.org/10.1109/iccas.2010.5669929	th ₁₃₄ A ₆	a ₃	b ₁₃	ch ₂	https://doi.org/10.1109/tase.2018.2829927
th ₅₀ A ₄₅	a ₃	b ₃₆	ch ₂	https://doi.org/10.1016/j.autcon.2010.07.011	th ₁₃₅ A ₆	a ₁	b ₁₅	ch ₂	https://doi.org/10.1109/robosoft.2019.8722720
th ₅₄ A ₂₆	a ₂	b ₆₁	ch ₃	https://doi.org/10.1109/aim.2010.5695941	th ₇₈ A ₃₇	a ₃	b ₄₈	ch ₂	https://doi.org/10.1016/j.autcon.2020.103400
th ₆₆ A ₁₀	a ₃	b ₂₅	ch ₂	https://doi.org/10.1016/j.autcon.2010.05.004	th ₈₃ A ₄₁		b ₆₀	ch ₂	https://link.springer.com/article/10.1007/s10098-020-01922-y
th ₉₂ A ₄₄	a ₂	b ₂₄	ch ₂	https://doi.org/10.1109/carpi.2010.5624474	th ₁₅₅ A ₃₇		b ₅₀	ch ₂	https://doi.org/10.1016/j.autcon.2019.102988
th ₅₁ A ₂₂		b ₃₀	ch ₂	https://doi.org/10.1016/j.matpr.2019.12.381	th ₁₅₈ A ₃₆	a ₂	b ₂₇	ch ₁	https://doi.org/10.14313/jamris/1-2020/1