



2017J文化財 アイテック	田子	45	5,263	49				3,842	581	82	136	293	24	39	16	250	<a href="http://www.sparj.com/SparJ/Spar2017J/speaker/tago2.pdf">http://www.sparj.com/SparJ/Spar2017J/speaker/tago2.pdf</a>	
		46	5,251	45	212	566	1,229	1,921	255	179	153	302	125	160	77	72	<a href="http://www.sparj.com/SparJ/Spar2017J/chirasi1.pdf">http://www.sparj.com/SparJ/Spar2017J/chirasi1.pdf</a>	
2017世界大会報告		47	5,248	46		5108	78	3	4	5	6	18	6	5	9	6	<a href="http://www.sparj.com/report/ReportSPAR_International2017.pdf">http://www.sparj.com/report/ReportSPAR_International2017.pdf</a>	
		48	5,113	47							101	4,883	115	6	5	3	<a href="http://www.sparj.com/event/PostKei6Sympo.pdf">http://www.sparj.com/event/PostKei6Sympo.pdf</a>	
SV14(04)VTOL		49	5,059	52	55	162	224	240	489	553	540	619	525	506	604	542	<a href="http://www.sparj.com/SVJabst/SVabst(14)/SparViewVol14(04)VTOL.pdf">http://www.sparj.com/SVJabst/SVabst(14)/SparViewVol14(04)VTOL.pdf</a>	
SV15(47)DJlsecurity		50	4,908	50									2,328	2,106	368	106	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(47)DJlsecurity.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(47)DJlsecurity.pdf</a>	
		51	4,598	62		150	431	150	246	368	645	745	447	482	934	112	<a href="http://www.sparj.com/SparJ/Spar2017J/speaker/muraki.pdf">http://www.sparj.com/SparJ/Spar2017J/speaker/muraki.pdf</a>	
		52	4,505	54								2,139	2,102	152	112	112	<a href="http://www.sparj.com/SPARP/SPAR2017P/speakers/SPAR2017Pmurayama.pdf">http://www.sparj.com/SPARP/SPAR2017P/speakers/SPAR2017Pmurayama.pdf</a>	
2011J 移動 ウェスコ	真田	53	4,301	53	755	500	482	417	268	138	381	780	36	334	28	182	<a href="http://www.sparj.com/SparJ/Spar2011J/speaker/sanada.pdf">http://www.sparj.com/SparJ/Spar2011J/speaker/sanada.pdf</a>	
EnDIF	IFC BIMカタログ	54	4,086	57	3561	42	478					1			4		<a href="http://www.sparj.com/EnDIF/BMMC/IFCBIMcatalogue201703.pdf">http://www.sparj.com/EnDIF/BMMC/IFCBIMcatalogue201703.pdf</a>	
2013J 新技術 共栄測量	松林	55	4,007	55	567	270	191	210	433	683	434	488	137	132	411	51	<a href="http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/matsubaya">http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/matsubaya</a>	
2012J移動 パスコ	坂元	56	4,003	58	433	1,051	130	30	130	101	437	354	935	15	71	316	<a href="http://www.sparj.com/SparJ/Spar2012J/speakerPDF/Sakamoto.pdf">http://www.sparj.com/SparJ/Spar2012J/speakerPDF/Sakamoto.pdf</a>	
2011J 学会 北大	金井	57	3,914	56	318	36	51	1,011	100	66	77	995	90	790	22	358	<a href="http://www.sparj.com/SparJ/Spar2011J/speaker/kanai.pdf">http://www.sparj.com/SparJ/Spar2011J/speaker/kanai.pdf</a>	
SV15(17)Payloadton		58	3,776	59		432	1,965	736	576	4	2	24	14	7	8	8	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(17)Payload1ton.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(17)Payload1ton.pdf</a>	
		59	3,758	60			477	1,661	128	39	51	1,185	103	65	30	19	<a href="http://www.sparj.com/SparJ/Spar2017J/TSprogram.pdf">http://www.sparj.com/SparJ/Spar2017J/TSprogram.pdf</a>	
2010J 基調 早稲田大	嘉納	60	3,529	67	260	6	97	29	439	370	34	37	22	738	933	564	<a href="http://www.sparj.com/SparJ/Spar2010J/speakerDoc/KanoDoc2">http://www.sparj.com/SparJ/Spar2010J/speakerDoc/KanoDoc2</a>	
2016J 土木 KRC	加藤	61	3,501	61	1030	639	68	37	245	101	899	20	415	20	18	9	<a href="http://www.sparj.com/SparJ/Spar2016J/presen/A6katou.pdf">http://www.sparj.com/SparJ/Spar2016J/presen/A6katou.pdf</a>	
SV15(33)2Dto3DbyAI		62	3,491	64						2,295	978	152	35	15	9	7	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(33)2Dto3DbyAI.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(33)2Dto3DbyAI.pdf</a>	
2013J		63	3,474	51	803	35	312	470	454	827	12	201	19	299	25	17	<a href="http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/speakers.pdf">http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/speakers.pdf</a>	
		64	3,159	66	87	438	594	513	362	137	331	160	496	7	8	26	<a href="http://www.sparj.com/SparJ/Spar2016J/presen/A4sakai.pdf">http://www.sparj.com/SparJ/Spar2016J/presen/A4sakai.pdf</a>	
2009J インフラ パスコ	前田	65	3,056	65	290	350	75	359	41	785	62	59	22	49	18	946	<a href="http://www.sparj.com/SparJ/Spar2009J/Maeda.pdf">http://www.sparj.com/SparJ/Spar2009J/Maeda.pdf</a>	
2016P	荻原	66	2,962	69	535	151	341	798	344	9	317	94	187	16	21	149	<a href="http://www.sparj.com/SPARP/SPAR2016P/presen/k3Adachi.pdf">http://www.sparj.com/SPARP/SPAR2016P/presen/k3Adachi.pdf</a>	
2008J Ts	FARO	67	2,868	70	46	1,458	12	19	134	8	11	16	168	892	22	82	<a href="http://www.sparj.com/SparJ/Spar2008J/TechnicalSession/FARO1.pdf">http://www.sparj.com/SparJ/Spar2008J/TechnicalSession/FARO1.pdf</a>	
		68	2,826	68	493	553	265	315	379	125	98	126	206	76	168	22	<a href="http://www.sparj.com/UAVapp/UAVapp2015/speakers/UkaiUAV">http://www.sparj.com/UAVapp/UAVapp2015/speakers/UkaiUAV</a>	
2015J 基調 芝浦工大	中川	69	2,821	86	387	497	69	31	40	45	21	354	41	403	34	899	<a href="http://www.sparj.com/SPAR2015J/speaker/M2nakagawa.pdf">http://www.sparj.com/SPAR2015J/speaker/M2nakagawa.pdf</a>	
2013J フラント 向陽鉄工	東	70	2,812	63	590	92	397	196	388	90	387	230	225	18	140	59	<a href="http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/higashi.pdf">http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/higashi.pdf</a>	
SV15(32)DroneOnWall		71	2,778	71						2,341	193	55	64	56	36	33	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(32)DroneOnWall.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(32)DroneOnWall.pdf</a>	
2008J 土木 東名開発	伊藤	72	2,567	72	264	237	191	207	155	418	130	353	439	91	31	51	<a href="http://www.sparj.com/SparJ/Spar2008J/SpeakerPresenPDF/Itoh.pdf">http://www.sparj.com/SparJ/Spar2008J/SpeakerPresenPDF/Itoh.pdf</a>	
		73	2,550	74	2,413	56	74					1	4		2		<a href="http://www.sparj.com/report/Koishi/20170207_KoishiReport.pdf">http://www.sparj.com/report/Koishi/20170207_KoishiReport.pdf</a>	
SV15(18)OpenLSEF		74	2,507	75			1,929	357	118	9	8	19	12	11	33	11	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(18)OpenLSEF.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(18)OpenLSEF.pdf</a>	
SV15(15)SPAR3Dtrend		75	2,442	76		2,196	110	29	10	8	12	14	27	13	14	9	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(15)SPAR3Dtrend.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(15)SPAR3Dtrend.pdf</a>	
2015J 展示All		76	2,318	77	163	201	245	234	200	202	164	285	187	198	122	117	<a href="http://www.sparj.com/SPAR2015J/sponsor/exhibitAll.pdf">http://www.sparj.com/SPAR2015J/sponsor/exhibitAll.pdf</a>	
SV15(26)Lidar700\$		77	2,274	80						2,139	40	13	21	28	12	9	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(26)Lidar700\$.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(26)Lidar700\$.pdf</a>	
		78	2,264	79	18	15	8	13	2	1,941	30	61	101	27	42	6	<a href="http://www.sparj.com/kojimemo/KojiMemo(20)SaveJapan&amp;Earth.pdf">http://www.sparj.com/kojimemo/KojiMemo(20)SaveJapan&amp;Earth.pdf</a>	
SV15(30)NewVTOL		79	2,264	81					1,369	802	23	16	26	13	7	8	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(30)NewVTOL.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(30)NewVTOL.pdf</a>	
		80	2,242	82						2,104	41	22	25	21	17	12	<a href="http://www.sparj.com/kojimemo/KojiMemo(32)NorthKorea.pdf">http://www.sparj.com/kojimemo/KojiMemo(32)NorthKorea.pdf</a>	
2015世界大会報告		81	2,238	73	612	335	201	135	312	75	46	35	52	257	152	26	<a href="http://www.sparj.com/SparInt/SPAR2015IntReport.pdf">http://www.sparj.com/SparInt/SPAR2015IntReport.pdf</a>	
		82	2,238	92	138	91	110	116	161	209	244	157	138	154	343	377	<a href="http://www.sparj.com/SVJabst/SVIndex2.xlsm">http://www.sparj.com/SVJabst/SVIndex2.xlsm</a>	
SV15(21)Robird&Tunnel		83	2,217	84		1,476	615	30	10	18	12	28	10	12	6	6	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(21)Robird&amp;Tunnel.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(21)Robird&amp;Tunnel.pdf</a>	
		84	2,216	83						2,122	20	16	25	5	21	2	<a href="http://www.sparj.com/report/InaDroneCompeGuide.pdf">http://www.sparj.com/report/InaDroneCompeGuide.pdf</a>	
		85	2,138	85		1,378	691	14	7	8	9	11	9	7	4	4	<a href="http://www.sparj.com/SparJ/Spar2017J/SPAR2017JattendPatte">http://www.sparj.com/SparJ/Spar2017J/SPAR2017JattendPatte</a>	
		86	2,133	78	136	236	500	305	123	25	106	295	82	231	82	12	<a href="http://www.sparj.com/SPARP/SPAR2016P/2016Pexhibit.pdf">http://www.sparj.com/SPARP/SPAR2016P/2016Pexhibit.pdf</a>	
		87	2,108	88						22	53	80	875	710	261	73	34	<a href="http://www.sparj.com/SPARP/SPAR2017P/Spar2017Pchirashi.pdf">http://www.sparj.com/SPARP/SPAR2017P/Spar2017Pchirashi.pdf</a>
		88	2,095	87	6	345	650	874	49	19	20	33	33	35	14	17	<a href="http://www.sparj.com/SparJ/Spar2017J/TimeChart.pdf">http://www.sparj.com/SparJ/Spar2017J/TimeChart.pdf</a>	
SV15(19)Smapho		89	2,058	89		1,916	40	7	12	12	13	10	10	13	25	25	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(19)Smapho.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(19)Smapho.pdf</a>	
2009J 移動 ウェスコ	宮下	90	2,022	115	30	57	41	37	60	57	44	66	33	29	1,218	350	<a href="http://www.sparj.com/SparJ/Spar2009J/Miyashita.pdf">http://www.sparj.com/SparJ/Spar2009J/Miyashita.pdf</a>	
SV16(02)CircularRunway		91	1,991	107											1,811	180	<a href="http://www.sparj.com/SVJabst/SVabst(16)/SparViewVol16(02)CircularRunway.pdf">http://www.sparj.com/SVJabst/SVabst(16)/SparViewVol16(02)CircularRunway.pdf</a>	
2015J 文化財 アイテック	田子	92	1,990	96	122	234	230	85	177	184	194	188	196	135	110	135	<a href="http://www.sparj.com/SPAR2015J/speaker/A3tago.pdf">http://www.sparj.com/SPAR2015J/speaker/A3tago.pdf</a>	
SV15(37)OrigamiDrone		93	1,982	94							1,728	149	47	33	12	13	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(37)OrigamiDrone.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(37)OrigamiDrone.pdf</a>	



			143	1,396	131	150	94	41	124	112	104	154	204	100	168	58	87	<a href="http://www.sparj.com/UAVapp/UAV2016/Chirasi.pdf">http://www.sparj.com/UAVapp/UAV2016/Chirasi.pdf</a>	
SV15(41)EventCamera			144	1,395	150								1289	55	21	15	15	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(41)E">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(41)E</a>	
SV15(29)AppleAR			145	1,393	146					1,224	86	19	11	28	9	10	6	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(29)AppleAR.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(29)AppleAR.pdf</a>	
			146	1,379	151					1,326	17	9	7	7	4	4	5	<a href="http://www.sparj.com/report/ARIDA&amp;SPARJ_UAV20170714.pdf">http://www.sparj.com/report/ARIDA&amp;SPARJ_UAV20170714.pdf</a>	
			147	1,368	120	269	273	16	92	69	197	146	126	6	147	16	11	<a href="http://www.sparj.com/SparJ/Spar2010J/speakerDoc/OuraDoc1.pdf">http://www.sparj.com/SparJ/Spar2010J/speakerDoc/OuraDoc1.pdf</a>	
			148	1,367	156	133	147	113	122	115	118	104	84	66	76	163	126	<a href="http://www.sparj.com/kojimemo/kojimemo1.htm">http://www.sparj.com/kojimemo/kojimemo1.htm</a>	
			149	1,366	154					1287	31	14	8	6	10	6	4	<a href="http://www.sparj.com/report/DoPhotoGram.pdf">http://www.sparj.com/report/DoPhotoGram.pdf</a>	
SV15(38)Matterport			150	1,363	155							1,149	115	52	29	13	5	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(38)Matterport.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(38)Matterport.pdf</a>	
2013J 学会 電通大	増田		151	1,357	148	60	161	33	111	152	27	306	19	62	386	29	11	<a href="http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/masuda.pdf">http://www.sparj.com/SparJ/Spar2013J/speaker_pdf/masuda.pdf</a>	
2016J 建築 東洋熱工業	三浦		152	1,355	152	43	195	8	359	106	147	95	103	62	33	198	6	<a href="http://www.sparj.com/SparJ/Spar2016J/presen/A2miura.pdf">http://www.sparj.com/SparJ/Spar2016J/presen/A2miura.pdf</a>	
UAV15 基調 千葉大	本多		153	1,341	121	245	30	15	161	509	78	19	206	33	20	17	8	<a href="http://www.sparj.com/UAVapp/UAVapp2015/speakers/HondaUAVapp2015.pdf">http://www.sparj.com/UAVapp/UAVapp2015/speakers/HondaUAVapp2015.pdf</a>	
SV15(24)PacificDroneRace			154	1,328	157				1,186	57	26	11	9	17	7	10	5	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(24)PacificDroneRace">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(24)PacificDroneRace</a>	
SV15(10)defense			155	1,322	158	1,183	71	30	4	2	3		5	7	5	8	4	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(10)defense.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(10)defense.pdf</a>	
2009J プラント ENN	丸田		156	1,321	149	71	14	118	182	157	217	68	89	187	107	51	60	<a href="http://www.sparj.com/SparJ/Spar2009J/Maruta.pdf">http://www.sparj.com/SparJ/Spar2009J/Maruta.pdf</a>	
			157	1,308	162				911	218	14	15	31	33	34	38	14	<a href="http://www.sparj.com/SparJ/Spar2017J/speaker/takahashi2.pdf">http://www.sparj.com/SparJ/Spar2017J/speaker/takahashi2.pdf</a>	
			158	1,305	163	9	182	265	340	108	70	67	196	31	11	13	13	<a href="http://www.sparj.com/SparJ/Spar2017J/SpakerAbst/speakerKeynote.pdf">http://www.sparj.com/SparJ/Spar2017J/SpakerAbst/speakerKeynote.pdf</a>	
SV15(46)ChinaDroneUp			159	1,299	164									1,183	75	20	21	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(46)ChinaDroneUp.p">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(46)ChinaDroneUp.p</a>	
2008J 土木 東名開発	伊藤		160	1,288	165	966	69	81	11	5	11	13	18	14	74	13	13	<a href="http://www.sparj.com/SparJ/Spar2008J/SpakerPresenPDF/Itoh1.pdf">http://www.sparj.com/SparJ/Spar2008J/SpakerPresenPDF/Itoh1.pdf</a>	
SV15(13)UTM			161	1,277	166		1,137	63	8	4	12	9	7	8	8	12	9	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(13)UTM.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(13)UTM.pdf</a>	
	ReportSPAR1Eng		162	1,259	167	3	3	68	61	46	26	43	114	58	29	800	8	<a href="http://www.sparj.com/report/SAR1Eng.pdf">http://www.sparj.com/report/SAR1Eng.pdf</a>	
			163	1,254	168							1,172	39	18	5	8	12	<a href="http://www.sparj.com/event/PointCloudSeminar2017.pdf">http://www.sparj.com/event/PointCloudSeminar2017.pdf</a>	
			164	1,250	169	118	94	102	99	110	122	104	104	70	95	109	123	<a href="http://www.sparj.com/SVJabst/SubHeadSVJabst.htm">http://www.sparj.com/SVJabst/SubHeadSVJabst.htm</a>	
2016J TS VisioTech			165	1,221	172	33	1	25	352	13	245	8	141	17	340	3	43	<a href="http://www.sparj.com/SparJ/Spar2016J/presen/TS02VisioTech.pdf">http://www.sparj.com/SparJ/Spar2016J/presen/TS02VisioTech.pdf</a>	
2016P ヘステラ	多田		166	1,218	160	399	184	169	88	88	33	13	53	109	74	6	2	<a href="http://www.sparj.com/SPARP/SPAR2016P/presen/k2Tada.pdf">http://www.sparj.com/SPARP/SPAR2016P/presen/k2Tada.pdf</a>	
			167	1,214	176							984	55	44	40	38	53	<a href="http://www.sparj.com/event/AirPhotoSeminarTopcon.pdf">http://www.sparj.com/event/AirPhotoSeminarTopcon.pdf</a>	
SV15(51)UTSEC2018			168	1,208	174											1,079	98	31	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(51)UTSEC2018.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(51)UTSEC2018.pdf</a>
SV14(27)DroneWar			169	1,197	161	94	91	106	123	110	112	84	99	112	95	101	70	<a href="http://www.sparj.com/SVJabst/SVabst(14)/SparViewVol14(27)DroneWar.pdf">http://www.sparj.com/SVJabst/SVabst(14)/SparViewVol14(27)DroneWar.pdf</a>	
			170	1,194	171	1,142	18	30	1								3	<a href="http://www.sparj.com/EnDIF/BMMC/BLCguide2016article.pdf">http://www.sparj.com/EnDIF/BMMC/BLCguide2016article.pdf</a>	
2015J 基調3 JR東日本	横山		171	1,194	173	72	118	103	105	144	107	74	64	143	83	93	88	<a href="http://www.sparj.com/SPAR2015J/speaker/M3yokoyama.pdf">http://www.sparj.com/SPAR2015J/speaker/M3yokoyama.pdf</a>	
SV15(48)directory			172	1,179	175										1,143	21	15	<a href="http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(48)directory.pdf">http://www.sparj.com/SVJabst/SVabst(15)/SparViewVol15(48)directory.pdf</a>	
			173	1,172	183			211	519	32	8	27	17	110	29	85	134	<a href="http://www.sparj.com/SparJ/Spar2017J/speaker/futatsuya.pdf">http://www.sparj.com/SparJ/Spar2017J/speaker/futatsuya.pdf</a>	
			174	1,123	180	110	90	98	94	91	95	85	71	60	99	111	119	<a href="http://www.sparj.com/SparInt/SubHeadSparInt.htm">http://www.sparj.com/SparInt/SubHeadSparInt.htm</a>	
			175	1,118	179										327	780	11	<a href="http://www.sparj.com/SPARP/SPAR2017P/SPAR2017Penquet.pdf">http://www.sparj.com/SPARP/SPAR2017P/SPAR2017Penquet.pdf</a>	
			176	1,117	177	641	178	117	110	37	5	4	7	3	5	7	3	<a href="http://www.sparj.com/SparInt/SPARInternational2017Program.pdf">http://www.sparj.com/SparInt/SPARInternational2017Program.pdf</a>	
			177	1,116	178	959	30	24	24	7	12	7	12	10	12	10	9	<a href="http://www.sparj.com/WebAccess/WebPageAccessRank201703.pdf">http://www.sparj.com/WebAccess/WebPageAccessRank201703.pdf</a>	
SV16(04)GuigerModeLidar			178	1,096	194												193	<a href="http://www.sparj.com/SVJabst/SVabst(16)/SparViewVol16(04)GuigerModeLida">http://www.sparj.com/SVJabst/SVabst(16)/SparViewVol16(04)GuigerModeLida</a>	
			179	1,058	182								985	43	14	10	6	<a href="http://www.sparj.com/event/KKEvision2017.pdf">http://www.sparj.com/event/KKEvision2017.pdf</a>	