

[별첨1] 4차산업혁명 관련 특허분류

☐ 4차산업혁명 관련 7대 기술분야 특허분류 체계(특허청, 2018.)

* 출처 : http://www.kipo.go.kr/kpo/user.tdf?a=user.html.HtmlApp&c=33001&catmenu=m06_07_06

| 인공지능(AI) | | 빅데이터 | |
|-------------|-------------------|----------|-------------------|
| CPC 코드 | 대응 CPC 코드/ IPC 분류 | CPC 코드 | 대응 CPC 코드/ IPC 분류 |
| G06Y10/00 | G06N3/08~3/088 | G06W1/00 | |
| | G06N5/04~5/048 | | G06F17/20 |
| | G06N99/005 | | G06F17/30 |
| G06Y10/50 | G06N99/005 | | G06F19/00 |
| | G06N3/08~3/088 | G06W1/10 | G06Q |
| | G06F19/24 | | A61B5/00 |
| G06Y10/52 | G06N99/005 | | A61B6/50 |
| | G06N3/08~3/088 | | A61B6/52 |
| G06Y10/522 | G06N99/005 | | A61B8/52 |
| | G06N3/08~3/088 | | H04N1/00 |
| G06Y10/5223 | G06N99/005 | G06W1/11 | G06Q50/01 |
| | G06N3/08~3/088 | | G06Q50/10 |
| G06Y10/5227 | G06N99/005 | | G06Q30/02 |
| | G06N3/08~3/088 | | G06F17/30 |
| G06Y10/524 | G06K9/6267~9/6287 | | H04N21/45 |
| | G06N99/005 | | G06K9/00 |
| G06Y10/5241 | G06K9/6276 | G06W1/12 | G06F19/30 |
| | G06N99/005 | | G06Q50/24 |
| G06Y10/5243 | G06K9/6277~9/6288 | | A61B5/00 |
| | G06N99/005 | | G16H |
| G06Y10/525 | G06K9/6286 | G06W1/13 | G06Q50/26 |
| | G06N99/005 | | G06Q50/30 |
| G06Y10/527 | G06K9/6269 | | G08B21/00 |
| | G06N99/005 | | G01S5/0278 |
| G06Y10/54 | G06N99/005 | G06W1/14 | G06Q50/04 |
| | G06N3/08~3/088 | | G06Q10/08 |
| G06Y10/543 | G06N99/005 | G06W1/15 | G06Q20/00 |
| | G06N3/08~3/088 | | G06Q30/0201 |
| G06Y10/547 | G06N99/005 | G06W1/16 | G06Q40/00 |
| | G06N3/08~3/088 | G06W1/17 | G06Q50/18 |
| G06Y10/56 | G06N3/08~3/088 | | G06Q50/20 |
| | G06N99/005 | G06W1/18 | G06F11/00 |
| G06Y10/565 | G06N3/08~3/088 | | H04Q9/00 |
| | G06N99/005 | G06W1/30 | G08B21/0205 |
| G06Y10/58 | G06N3/08~3/088 | | H04N21/00 |
| | G06N99/005 | | H04M1/00 |
| G06Y10/583 | G06N3/08~3/088 | | G06K7/00 |
| | G06N99/005 | G06W1/31 | H04M1/725 |
| G06Y10/585 | G06N3/08~3/088 | | H04N5/232 |
| | G06N99/005 | | G06F17/30047 |
| G06Y10/588 | G06N3/02 | G06W1/32 | H04N21/4135 |
| | G06N3/08~3/088 | | G01S |
| G06Y10/5882 | G06N3/02 | G06W1/33 | G06Q20/20 |
| | G06N3/08~3/088 | | G06K7/1413 |
| G06Y10/5884 | G06N3/02 | G06W1/34 | G06F3/01 |
| | G06N3/08~3/088 | | G06F17/30 |
| G06Y10/5886 | G06N3/02 | | G06F17/30002 |

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| | G06N3/08~3/088 | | G06F3/048 |
| G06Y10/5888 | G06N3/02 | G06W1/35 | |
| | G06N3/08~3/088 | G06W1/50 | |
| G06Y20/00 | G06F17/20~17/289 | G06W1/51 | |
| | G10L15/* | G06W1/53 | |
| G06Y20/20 | G06F17/28~17/289 | G06W3/00 | G06F17/00 |
| G06Y20/23 | | | G06F19/00 |
| G06Y20/26 | | | G06F9/00 |
| G06Y20/29 | | | G06Q10/00 |
| G06Y20/32 | | G06W3/10 | G06F17/27 |
| G06Y20/38 | | | G06F17/30 |
| G06Y20/40 | G10L15/22 | | G06F17/3061 |
| | G06F17/27~17/2795 | | G06F17/30861 |
| G06Y20/45 | G10L15/22 | | G06F17/30386 |
| | G06F17/27~17/2795 | | G06F17/30268 |
| G06Y20/50 | | G06W3/30 | G06F17/27 |
| G06Y20/55 | | | G06F17/28 |
| G06Y20/60 | | | G06F17/21 |
| G06Y20/88 | | | G06F17/30734 |
| G06Y20/89 | | | G06F17/2264 |
| G06Y20/65 | G10L15/22 | G06W3/50 | G06F17/30 |
| | G06F17/27~17/2795 | | G06Q10/04 |
| G06Y20/70 | G10L15/22 | | G06Q10/063 |
| | G06F17/27~17/2795 | | G06F9/00 |
| G06Y20/73 | G10L15/22 | | G06F19/28 |
| | G06F17/27~17/2795 | G06W3/71 | |
| G06Y20/77 | G10L15/22 | G06W3/73 | |
| | G06F17/27~17/2795 | G06W5/00 | G06F17/30 |
| G06Y20/80 | G10L15/00~15/34 | | G06F19/28 |
| G06Y20/82 | G10L17/00~17/26 | | G06F17/30076 |
| | G10L15/07~15/075 | | G06F17/30289 |
| G06Y20/825 | G10L15/07~15/075 | G06W5/10 | G06F17/30318 |
| G06Y20/83 | G10L15/07~15/075 | | G06F17/30312 |
| G06Y20/84 | G10L15/07~15/075 | | G06F17/30153 |
| G06Y20/85 | G10L15/02~15/063 | G06W5/11 | |
| G06Y20/855 | G10L15/02~15/063 | G06W5/13 | |
| G06Y20/86 | G10L15/02~15/063 | G06W5/30 | G06F21/60 |
| G06Y20/865 | G10L15/02~15/063 | | G06F21/6245 |
| G06Y20/87 | G10L15/02~15/063 | | G06Q50/265 |
| G06Y20/90 | G10L13/00~13/10 | G06W5/31 | |
| G06Y20/95 | G06F21/32 | G06W5/33 | |
| G06Y30/00 | G06K9/00221~9/00389 | G06W5/35 | |
| G06Y30/20 | G06K9/00221 | G06W5/50 | G06F21/50 |
| | G06K9/00362~9/00389 | | G06F21/31 |
| G06Y30/40 | G06K9/00221 | | H04L9/32 |
| | G06K9/00362~9/00389 | | H04L43/16 |
| | G06T7/50 | G06W5/51 | |
| G06Y30/60 | | G06W5/53 | |
| G06Y30/80 | G06K9/00 | G06W5/70 | G06F17/30 |
| G06Y40/00 | | | G06F17/30318 |
| G06Y40/30 | | | G06F17/30067 |
| G06Y40/70 | | | G06F17/30194 |
| G06Y50/00 | | G06W7/00 | G06Q |
| G06Y50/10 | G06Q40/00~40/128 | | G01V |
| G06Y50/20 | G16H* | G06W7/10 | G06Q50/22 |
| | G06Q50/24 | | G06F19/18 |

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|-----------|------------------------|----------|-----------|
| G06Y50/25 | G16H* | | G06F19/00 |
| G06Y50/30 | G06Q50/04 | | A61B5/00 |
| G06Y50/40 | G06Q50/30, G06Q50/30A0 | | A61B6/50 |
| G06Y50/43 | G08G* | | A61B6/52 |
| | G01C21/* | | A61B8/52 |
| G06Y50/47 | B60W30/14 | G06W7/70 | |
| G06Y50/50 | A63F* | G06W7/71 | |
| | A63H* | G06W7/72 | |
| G06Y50/53 | A63F* | G06W7/73 | |
| G06Y50/57 | A63H* | G06W7/74 | |
| G06Y50/60 | G06Q50/30A0 | G06W7/75 | |
| G06Y50/63 | G06Q50/30A0 | G06W7/76 | |
| G06Y50/65 | G06Q50/30A0 | G06W7/77 | |
| G06Y50/68 | G06Q50/30A0 | G06W7/78 | |
| G06Y50/70 | G06Q50/26 | G06W7/79 | |
| G06Y50/80 | G06Q50/20~50/2057 | G06W7/80 | |
| G06Y50/90 | G06Q40/12~40/128 | G06W7/81 | |
| G06Y50/93 | G06Q50/18~50/188 | G06W7/82 | |
| G06Y50/97 | G06Q40/12~40/128 | G06W7/83 | |
| | | G06W7/84 | |
| | | G06W7/85 | |
| | | G06W7/86 | |
| | | G06W7/87 | |

| 사물인터넷 | | 3D 프린팅 | |
|-------------|-------------------|-----------|-------------------|
| CPC 코드 | 대응 CPC 코드/ IPC 분류 | CPC 코드 | 대응 CPC 코드/ IPC 분류 |
| G16Y10/00 | G06Q50/10 | B33Y10/00 | B29C64/10 |
| | G06Q50/00 | | B28B1/001 |
| | G06Q40/00 | | B22F3/00 |
| | G06Q30/00 | | B23K26/00 |
| G16Y10/05 | G06Q50/00 | | C04B35/622 |
| G16Y10/052 | G06Q50/02 | | C03B19/00 |
| G16Y10/053 | G06Q50/02 | B33Y10/10 | B29C64/118 |
| G16Y10/054 | | B33Y10/20 | B29C64/124 |
| G16Y10/055 | G06Q50/02 | | G03F7/70416 |
| G16Y10/056 | G06Q50/04 | B33Y10/30 | B29C64/112 |
| G16Y10/058 | G06Q50/08 | B33Y10/40 | B29C64/165 |
| G16Y10/10 | G06Q50/06 | B33Y10/50 | B29C64/153 |
| G16Y10/102 | G06Q50/06 | | B22F3/1055 |
| G16Y10/104 | G06Q50/06 | | C04B35/64 |
| G16Y10/106 | G06Q50/06 | B33Y10/60 | B23K26/00 |
| G16Y10/108 | G06Q50/06 | B33Y10/70 | B29C64/147 |
| G16Y10/1081 | G06Q50/06 | B33Y30/00 | B29C64/20 |
| G16Y10/1083 | G06Q50/06 | | B23K26/00 |
| | G06Q50/06 | | B22F3/1055 |
| G16Y10/1084 | G06Q50/00 | B33Y30/10 | B29C64/227 |
| G16Y10/1085 | G06Q50/06 | B33Y30/20 | B29C64/245 |
| G16Y10/1086 | G06Q50/06 | B33Y30/30 | B29C64/264 |
| | G06Q50/00 | B33Y30/40 | B29C64/205 |
| G16Y10/1088 | G06Q50/06 | | B05B1/00 |
| | G06Q50/00 | B33Y30/50 | B29C64/205 |
| G16Y10/1089 | G06Q50/06 | B33Y30/60 | B29C64/295 |
| | G06Q50/00 | B33Y30/70 | |
| G16Y10/15 | G06Q50/30 | B33Y40/00 | B29C64/30 |

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| G16Y10/20 | G06Q50/28 | | B22F3/1055 |
| | G06Q10/08 | B33Y40/10 | B29C64/30 |
| G16Y10/202 | | B33Y40/20 | B29C64/30 |
| G16Y10/204 | | B33Y40/30 | B29C64/35 |
| G16Y10/206 | | B33Y40/40 | B29C64/30 |
| G16Y10/208 | | B33Y40/50 | B29C64/30 |
| G16Y10/25 | G06Q50/10 | B33Y40/60 | |
| | H04N21/00 | B33Y40/70 | |
| G16Y10/30 | G06Q40/02 | B33Y50/00 | B29C64/386 |
| G16Y10/35 | G06Q40/00 | | B22F3/1055 |
| | G06Q40/04 | | G05B19/4099 |
| | G06Q40/06 | | G06T1~19/00 |
| G16Y10/40 | G06Q40/08 | B33Y50/005 | B29C64/386 |
| | G06Q40/10 | | G06T5/00 |
| | G06Q50/10 | | G06T7/00 |
| | G01W1/00 | | B29C64/386 |
| G16Y10/45 | G06Q50/22 | B33Y50/01 | G06F17/50 |
| | G16H | B33Y50/015 | B29C64/386 |
| | A61B5/0002 | | G06T15/00 |
| G16Y10/50 | G06Q30/00 | B33Y50/02 | G06T17/00 |
| | G06Q20/00 | | B29C64/393 |
| G16Y10/60 | G06Q50/10 | B33Y70/00 | G06T19/00 |
| | H04L12/00 | | B29C64/307 |
| G16Y10/70 | G06Q50/10 | B33Y70/10 | B29K |
| | G06Q50/34 | | |
| | A63F13/00 | B33Y70/12 | |
| G16Y10/80 | G06Q50/14 | B33Y70/121 | B22F |
| G16Y10/90 | G06Q50/20 | | C22C |
| | G09B | B33Y70/123 | C04B |
| G16Y20/00 | | B33Y70/125 | C03C |
| G16Y20/02 | G01C | B33Y70/14 | C08 |
| | G01H | | B29K |
| | G01J | B33Y70/141 | C08F |
| | G01K | | C08G |
| | G01S | | C08L |
| | G01V | B33Y70/16 | B29K |
| | G01W | B33Y70/30 | B29K |
| | G06Q50/10D0 | B33Y70/312 | B29K |
| G16Y20/04 | G01R | B33Y70/314 | B29K |
| | G06Q50/10D0 | B33Y70/316 | B29K |
| G16Y20/06 | G01F | B33Y70/318 | B29K |
| | G06Q50/06 | B33Y70/320 | B29K |
| G16Y20/08 | G16H | B33Y80/00 | B29D |
| | G06Q50/22 | | B29L |
| G16Y30/00 | G06F17/30 | B33Y80/10 | A61C13/0019 |
| | G06N | | A61F |
| | G06F15/ | | B29L |
| G16Y30/02 | | B33Y80/20 | B29L |
| G16Y30/03 | | | E04 |
| G16Y30/05 | | B33Y80/30 | B29L |
| G16Y30/07 | | B33Y80/31 | B29L |
| G16Y30/08 | G06Q50/10A0 | B33Y80/33 | B29L |
| | G06T19/00 | B33Y80/35 | B29L |
| G16Y40/00 | | B33Y80/40 | B29L |
| G16Y40/02 | | B33Y80/50 | B29D11/00 |
| G16Y40/04 | | B33Y80/60 | A23P |

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|-----------|----------------|-----------|------|
| G16Y40/06 | | B33Y80/70 | B29L |
| G16Y40/08 | H04L12/28~2898 | B33Y80/80 | B29L |
| | H04W4/001 | B33Y80/90 | B29L |
| | H04W84/12 | B33Y99/00 | |
| | H04W84/18~22 | | |
| G16Y50/00 | | | |
| G16Y50/01 | G06Q50/10D0 | | |
| | G08B | | |
| G16Y50/03 | | | |
| G16Y50/04 | G05B | | |
| | H04Q9/00 | | |
| | G06Q10/06 | | |
| G16Y50/05 | G06Q10/06 | | |
| G16Y50/06 | G06Q10/20 | | |
| | G06Q50/10D0 | | |
| | G06Q10/06 | | |
| G16Y50/08 | G08B | | |
| G16Y50/09 | H04W4/02~046 | | |
| | G01S19/00 | | |
| | G01C21/00 | | |
| G16Y70/00 | H04W12/00 | | |
| | H04L9/00 | | |
| | H04L63/00 | | |
| | G06F21/00 | | |
| G16Y70/02 | | | |
| G16Y70/04 | | | |
| G16Y70/06 | | | |
| G16Y70/08 | | | |

| 자율주행차 | | 클라우드 | |
|-----------|-------------------|-----------|-------------------|
| CPC 코드 | 대응 CPC 코드/ IPC 분류 | CPC 코드 | 대응 CPC 코드/ IPC 분류 |
| B60X10/00 | B60W40/00 | G06V10/00 | G06F15/16 |
| B60X10/10 | B60W40/02~09 | G06V10/20 | G06F15/16 |
| | B60R21/013 | G06V10/40 | |
| B60X10/12 | G01S13/931 | G06V10/60 | |
| B60X10/14 | G01S17/936 | G06V10/80 | G06F15/16 |
| B60X10/16 | B60R1/12 | | H04L29/08 |
| | G03B17/00 | G06V20/00 | G06F15/16 |
| B60X10/20 | H04W4/005 | G06V20/30 | G06F15/16 |
| | H04W4/006 | | G06F17/30067 |
| B60X10/22 | H04W12/00~12 | | H04L67/10 |
| | G06F21/30 | G06V20/60 | |
| B60X10/24 | | G06V30/00 | G06F15/16 |
| B60X10/30 | B60W40/02~09 | G06V30/20 | |
| B60X10/36 | B60W40/02~76 | G06V30/40 | |
| | B60R25/1012 | G06V30/60 | |
| B60X20/00 | B60W40/10 | G06V30/80 | |
| B60X20/10 | G05D1/0278 | G06V40/00 | G06F3/* |
| | G01S19/42 | | G06F9/* |
| B60X20/20 | G01C21/26~3697 | | G06F15/* |
| | G09B29/00 | G06V40/30 | G06F9/* |
| B60X20/30 | B60W40/10 | G06V40/60 | G06F9/06 |
| B60X20/40 | | | H04L67/02 |
| B60X30/00 | G05D1/021~0297 | | G06F9/46 |

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|-----------|----------------|-----------|--------------|
| B60X30/10 | G05D1/021~0297 | G06V40/90 | G06F15/00 |
| | B60W30/18009 | | H04L67/02 |
| B60X30/20 | G05D1/0221 | G06V50/00 | G06F21/50 |
| B60X30/22 | | | H04L9/08 |
| B60X30/30 | B60W50/08 | | H04L9/32 |
| | B60W50/10 | | H04L63/00 |
| B60X30/32 | B60W50/082 | G06V50/30 | G06F21/50 |
| | B60W30/182 | | G06F21/60 |
| B60X30/34 | B60W50/082 | G06V50/60 | H04L29/06557 |
| | B60W30/182 | | G06F21/30 |
| B60X30/40 | B60W30/06~17 | | H04L9/08 |
| B60X30/42 | | | H04L9/32 |
| B60X30/44 | | G06V50/90 | G06F21/30 |
| B60X30/50 | B60W30/08~095 | | G06F21/60 |
| B60X40/00 | B60W50/04 | G06V60/00 | G06Q20/* |
| | B60W50/06 | | G06Q30/06 |
| B60X40/10 | B60W40/12 | G06V60/30 | G06Q20/* |
| | B60W30/18172 | | G06Q30/06 |
| B60X40/20 | B60W30/143 | G06V60/60 | |
| | B60W40/105 | G06V60/90 | |
| B60X40/30 | G05D1/0061 | G06V70/00 | G06F15/16 |
| B60X40/40 | B60W30/165 | G06V70/10 | |
| | G08G1/22 | G06V70/20 | G06F15/16 |
| B60X40/50 | B60W50/08~16 | G06V70/30 | |
| B60X40/52 | B60W50/10 | G06V70/40 | G06F15/16 |
| | B60R16/0373 | G06V70/50 | |
| B60X40/54 | B60W50/08 | G06V70/60 | G06F15/16 |
| | B60R16/0315 | | G06Q50/10 |
| B60X40/56 | H04N13/04 | G06V70/70 | |
| | G06T19/006 | G06V70/80 | |
| B60X40/58 | B60W50/14 | | |
| | B60W40/02 | | |

| 지능형로봇 | | | |
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| CPC 코드 | 대응 CPC 또는 IPC 분류 | | |
| B25Y10/00 | B25J11/00~0095 | | |
| B25Y10/10 | B25J11/003~004 | | |
| | B25J9/0003 | | |
| | A47L5/00~11/4097 | | |
| B25Y10/20 | B25J11/002~0025 | | |
| | B25J11/0045 | | |
| | B25J11/009~0095 | | |
| | A61B34/00 | | |
| B25Y10/30 | B25J11/005~0075 | | |
| B25Y20/00 | B25J5/00~9/00 | | |
| B25Y20/10 | B25J9/00 | | |
| B25Y20/20 | B25J9/0006 | | |
| B25Y20/30 | B25J5/00~04 | | |
| B25Y20/40 | B64C39/00~12 | | |
| B25Y30/00 | B25J19/00 | | |
| B25Y30/10 | B25J19/02~04 | | |
| B25Y30/20 | B25J19/00 | | |
| B25Y30/30 | | | |
| B25Y30/40 | | | |

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|-----------|-------------|--|--|
| B25Y40/00 | B25J9/00 | | |
| B25Y40/10 | B25J9/00 | | |
| B25Y40/12 | B25J9/00 | | |
| B25Y40/14 | | | |
| B25Y40/16 | | | |
| B25Y40/20 | G01S19/00 | | |
| B25Y40/22 | | | |
| B25Y40/24 | | | |
| B25Y40/30 | | | |
| B25Y40/32 | | | |
| B25Y40/34 | | | |
| B25Y40/36 | | | |
| B25Y50/00 | G05D1/00 | | |
| | B25J9/00 | | |
| B25Y50/10 | G05D1/02~08 | | |
| | B25J9/16~20 | | |
| B25Y50/20 | B25J9/00 | | |