Inspec Thesaurus: New Terms for 2017

**affective computing**
- **UF** emotion simulation (artificial intelligence)
- **BT** artificial intelligence
- **RT** cognition
  - cognitive systems
  - emotion recognition
  - face recognition
  - gesture recognition
  - human factors
  - human-robot interaction
  - humanoid robots
  - psychology
  - speech recognition
  - user interfaces
- **CC** C0240; C6170; C6180
- **DI** January 2017
- **PT** human computer interaction

**automotive electric vehicles**
- **BT** electric vehicles
- **RT** battery powered vehicles
  - electric propulsion
  - electric vehicle charging
  - fuel cell vehicles
  - hybrid electric vehicles
  - road vehicles
  - vehicle-to-grid
- **CC** B8520B
- **DI** January 2017

**crowdsourcing**
- **BT** outsourcing
- **RT** cost reduction
  - groupware
  - innovation management
  - Internet
  - mobile computing
  - product development
  - social networking (online)
- **DI** January 2017

**crystal growth from solid**
- **BT** crystal growth
- **RT** solid phase epitaxial growth
- **PT** crystal growth
- **CC** A6150C; A8110J
  - B0510
- **DI** January 2017

**electric vehicle charging**
- **UF** battery charging
- **RT** aircraft power systems
  - automotive electric vehicles
  - automotive electronics
  - battery charge measurement
  - battery chargers
  - battery management systems
  - battery powered vehicles
  - electric vehicles
  - hybrid electric vehicles
  - secondary cells
  - solar powered vehicles
  - vehicle-to-grid
- **CC** B8520; B8520B
- **DI** January 2017

**exhaust gases**
- **BT** gases
- **RT** air pollution
  - air pollution control
  - ash
  - combustion
  - diesel engines
  - exhaust systems
  - flue gases
  - gas mixtures
  - incineration
  - internal combustion engines
  - jet engines
- **CC** A8670G; A8675; B7720; E0230; E2320
- **DI** January 2017
- **PT** exhaust systems

**hardware-in-the-loop simulation**
- **UF** HIL simulation
- **BT** simulation
- **RT** aerospace control
  - control engineering computing
  - control system synthesis
  - embedded systems
  - power system control
  - testing
  - vehicle dynamics
- **CC** C7400; C7420; C3300
- **DI** January 2017
- **PT** simulation
### Inspec Thesaurus: New Terms for 2017

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<thead>
<tr>
<th>image annotation</th>
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<tbody>
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| CC B6135E; C5260B; C5260D; C6170K; C7250R |\
| DI January 2017 | PT January 2017 |

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Inspec Thesaurus: New Terms for 2017

NoSQL databases
UF nonrelational databases
BT database management systems
RT Big Data
data structures
data warehouses
database indexing
distributed databases
Linked Data
query languages
query processing
semantic networks
very large databases
CC C6160; C4250
DI January 2017
PT database management systems

vehicle-to-grid
BT smart power grids
RT automotive electric vehicles
battery powered vehicles
battery storage plants
demand side management
distributed power generation
fuel cell vehicles
hybrid electric vehicles
load shedding
solar powered vehicles
CC B8110; B8120K; B8260; B8520
DI January 2017
PT electric vehicles
smart power grids

solar sails
BT aerospace propulsion
aerospace control
deployable structures
flexible structures
radiation pressure
solar power
space vehicles
vehicle dynamics
CC B7690
C3360L
E2220
DI January 2017
PT aerospace propulsion
space vehicles

voice activity detection
UF VAD (speech processing)
speech activity detection
speech detection
BT speech processing
RT speech
speech coding
speech recognition
speech synthesis
CC A4370
B6130
C1250C; C5260S; C5585; C6180N
D3060
DI January 2017
PT speech processing

topological lattices
NT topological insulators
topological superconductors
RT quantum Hall effect
spin Hall effect
spin-orbit interactions
surface conductivity
surface states
CC A7320; A7325; A7360
DI January 2017

voltage-source convertors
UF modular multi-level convertors
voltage-source convertors
BT power convertors
RT HVDC power convertors
PWM power convertors
power electronics
CC B1210; B8360
DI January 2017
PT power convertors

topological superconductors
BT topological lattices
RT quantum Hall effect
spin Hall effect
spin-orbit interactions
superconductivity
surface conductivity
surface states
topological insulators
CC A7320; A7325; A7360; A7400
DI January 2017