AUTOMATIC SEARCH REPORT (UPDATE ON 2015)

State of the Art of Cyber-Physical Systems Security: an Automatic Control perspective

VERSION 1.0

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ABSTRACT

Automatic search refers to the execution of a search string on a set of electronic databases and indexing systems. It is the dominant method for identifying potentially relevant papers for a systematic survey. In this report we describe the details about the selected electronic databases and indexing systems, the used search strings and applied selection procedures.

KEYWORDS

Systematic mapping study, automatic search, cyber-physical systems, CPS, networked control systems, NCS, security, attacks, protection.

Contents

List of Tables

1 Automatic search

Automatic search refers to the execution of a search string on a set of electronic databases and indexing systems. In the literature it is the dominant method for identifying potentially relevant papers [CBZ10]. Our automatic search is performed on the six electronic data sources listed in Table 1.

Table 1: Electronic data sources targeted with search strings

Library	**Website**
ACM Digital Library	http://dl.acm.org
IEEE Explore	http://ieeexplore.ieee.org
ScienceDirect	http://www.sciencedirect.com
Clarivate Analytics Web of Science	http://apps.webofknowledge.com
Wiley InterScience	http://onlinelibrary.wiley.com

As suggested in [KB13], in order to cover as much relevant literature as possible, we chose six of the largest and most complete scientific databases and indexing systems available in computer science. The selection of these electronic databases and indexing systems is guided also by their high accessibility and their ability to export search results to well-defined formats.

The applied search string is the following:

```
((((("cyber physical" OR "cyber-physical" OR cyberphysical OR "networked control") AND
            system*) OR CPS OR NCS) AND (attack* OR secur* OR protect*))
```

To create this search string, we established a *quasi-gold standard* (QGS) [ZBT11], that required a manual search in a small number of venues, as described in the related *Manual search report*. The results of these manual searches have been treated as a QGS by cross-checking the results obtained from the automatic search. So, we iteratively defined and modified the search string and conducted automatic searches on the electronic data sources until the quasi-sensitivity was above the established threshold of 80%. When the *quasi-sensitivity* became greater than 80%, the search performance was considered acceptable and the results from the automated search have been merged with the QGS.

Among the results of the automatic searches we removed a set of false positives in order to work on a polished set of potentially relevant studies. Examples of false positives include proceedings of conferences or workshops, tables of contents, maps, lists of program committee members, keynotes, tutorial or invited talks, and messages from (co-)chairs.

2 Selection procedure

After the search activity we considered all the collected studies and filtered them according to a set of well-defined inclusion and exclusion criteria. This criteria are the following.

2.1 Inclusion criteria

(I1) Studies focussing on security of cyber-physical systems (CPS).

(I2) Studies proposing a method or technique for CPS security enforcing or breaching.

(I3) Studies providing some kind of validation of the proposed method or technique (e.g., via formal analysis, controlled experiment, exploitation in industry, example usage).

2.2 Exclusion criteria

(E1) Studies not subject to peer review [WRH+12] (e.g., journal papers, papers published as part of conference proceedings will be considered, whereas white papers will be discarded).

(E2) Studies written in any language other than English.

(E3) Studies focussing on security method or technique not specific to cyber-physical system (e.g studies focussing on either the physical or cyber part only of the system under consideration).

(E4) Studies published before 2006 (because the cyber-physical systems discipline has emerged in 2006).

(E5) Secondary or tertiarty studies (e.g., systematic literature reviews, surveys, etc.).

(E6) Studies in the form of tutorial papers, short papers, poster papers, editorials, because they do not provide enough information.

In this context, a study was selected as a primary study if it satisfied *all* inclusion criteria, and it was discarded if it met *any* exclusion criterion. In order to reduce the likelihood of bias, the selection criteria of this study have been decided during the review protocol definition.

With a view to handle studies selection in a cost effective way we used the adaptive reading depth [PFMM08], as the full-text reading of clearly excluded approaches is unnecessary. So, we considered *title*, *keywords* and *abstract* of each potentially relevant study and, if selection decision could not be made, other information (like *conclusion* or even *full-text*) have been exploited [ZBT11]. By following the approach proposed in [AP14], two researchers classified each potentially relevant study either as *relevant*, *uncertain*, or *irrelevant*; any study classified as *irrelevant* has been directly excluded, whereas all the other approaches have been discussed with the help of a third researcher.

2.3 Search and selection of the papers published by IEEE

The automatic search of the papers published by IEEE was performed by applying the string

```
((((("cyber physical" OR "cyber-physical" OR cyberphysical OR "networked control") AND
system*) OR CPS OR NCS) AND (attack* OR secur* OR protect*))
```

to **IEEE Xplorer Digital library** by using in **Advanced Search Options** a **Command Search** with **Metadata Only**. The results were restricted to those published in 2015.

First June 2018 this search gave **325** results. Among them there were some false positives in form of titles of conferences or workshops, their tables of contents, maps, program committees, keynotes, tutorial or invited talks, and messages from (co-)chairs. After deleting this false positives we remained with **276** papers. To all of them we have applied inclusion and exclusion criteria in order to identify our primary studies. The results are reported in Tables 2 – 10.

2.4 Search and selection of the papers published by ACM

The automatic search of the papers published by ACM was performed by applying the string

```
(((((recordAbstract:"cyber physical" OR acmdlTitle:"cyber physical" OR
keywords.author.keyword:"cyber physical") OR
(recordAbstract:cyberphysical OR acmdlTitle:cyberphysical OR
keywords.author.keyword:cyberphysical) OR
(recordAbstract:"networked control" OR acmdlTitle:"networked control" OR
keywords.author.keyword:"networked control")) AND
(recordAbstract:system* OR acmdlTitle:system* OR keywords.author.keyword:system*)) OR
```

```
(recordAbstract:CPS OR acmdlTitle:CPS OR keywords.author.keyword:CPS) OR
(recordAbstract:NCS OR acmdlTitle:NCS OR keywords.author.keyword:NCS)) AND
((recordAbstract:attack* OR acmdlTitle:attack* OR keywords.author.keyword:attack*) OR
(recordAbstract:secur* OR acmdlTitle:secur* OR keywords.author.keyword:secur*) OR
(recordAbstract:protect* OR acmdlTitle:protect* OR keywords.author.keyword:protect*)))
```

as a query in **ACM DL Digital Library**'s Advanced Search. The results were restricted to the those published in 2015. Additionally, our search was performed by selecting items from **the ACM Full-Text Collection**.

First June 2018 this search gave **63** results. After deleting the false positives we remained with **54** papers. To all of them we have applied inclusion and exclusion criteria in order to identify our primary studies. The results are reported in Tables 11 – 12.

2.5 Search and selection of the papers published by Science Direct

The automatic search of the papers published by Science Direct was performed by applying the string

```
tak((((("cyber physical" OR "cyber-physical" OR cyberphysical OR "networked control") AND
system*) OR CPS OR NCS) AND (attack* OR secur* OR protect*))
```

as a query in **ScienceDirect**'s Expert Search. The results were restricted to 2015. Both **Journals** and **Books** were considered. Additionally, our search was limited to **All Sources** among **Computer Science**, **Engineering** and **Mathematics**

First June 2018 this search gave **51** results.

To all of them we have applied inclusion and exclusion criteria in order to identify our primary studies. The results are reported in Tables 13 - 14.

2.6 Search and selection of the papers published by Web Of Science

The automatic selection of the papers indecised by Web Of Science was performed by applying the search string

```
TS=((((("cyber-physical" OR cyberphysical OR "networked control") AND system*)
OR CPS OR NCS) AND (attack* OR secur* OR protect*))
```

as a query in Web of Science's Advanced Search on Web of Science™ Core Collection database.

The results were restricted by English language, within timespan of 2015, with further setting of considering only Science Citation Index Expanded (SCI-EXPANDED) and Conference Proceedings Citation Index - Science (CPCI-S).

Twenty forth March 2018 this search gave 417 results.

After refining the research results by **excluding Research Areas** of Agriculture, Social Work, *Environmental Sciences*, Ecology, Reproductive Biology, Chemistry, Cell Biology, Microscopy, Materials Science, Veterinary Sciences, Metallurgy, Metallurgical Engineering, Substance Abuse, Mechanics, *Spectroscopy*, Hematology, *Polymer Science*, Geriatrics, Gerontology, Parasitology, Crystallography, *Immunology*, Business Economics, Biochemistry, Molecular Biology, *Genetics Heredity*, *Behavioral Sciences*, Infectious Diseases, *Electrochemistry*, *Acoustics*, *Microbiology*, *Virology*, Water Resources, *Psychiatry*, *Plant Sciences*, Social Sciences Other Topics, *Pharmacology Pharmacy*, Rheumatology, Research Experimental Medicine, Respiratory System, *Neurosciences Neurology*, Nutrition Dietetics, Rehabilitation, *Public Environmental Occupational Health*, Otorhinolaryngology, *Optics*,

Biophysics, Mycology, *Pediatrics*, *Tropical Medicine*, Meteorology Atmospheric Sciences, *Biotechnology Applied Microbiology*, Transportation, Medical Informatics, Nuclear Science Technology, *Toxicology*, Medical Ethics, *Psychology*, Surgery, Mathematical Methods in Social Sciences, *Instruments Instrumentation*, *Physiology*, Life Sciences Biomedicine Other Topics, *Obstetrics Gynecology*, Gastroenterology Hepatology, *Food Science Technology*, *Mathematical Computational Biology*, Forestry, *Oncology*, General Internal Medicine, Entomology, Evolutionary Biology, Emergency Medicine, *Endocrinology Metabolism*, Dentistry Oral Surgery Medicine, *Health Care Sciences Services*, Radiology Nuclear Medicine Medical Imaging, Geology, *Fisheries*, Education Educational Research, Construction Building Technology, Cardiovascular System Cardiology, Transplantation and Anesthesiology, and also *Nanoscience Nanotechnology*, *Medicine Research Experimental*, *Biochemistry Molecular Biology*, *Physics Condensed Matter*, *Psychology Developmental*, *Radiology Nuclear Medicine Medical Imaging*, *Cell Biology*, *Infectious Diseases*, *Materials Science Biomaterials*, *Medicine General Internal*, *Nuclear Science Technology*, *Parasitology*, *Biology*, *Chemistry Organic*, *Developmental Biology*, *Marine Freshwater Biology*, *Materials Science Coatings Films*, *Medicine Legal*, *Metallurgy Metallurgical Engineering* and *Orthopedics*, we got **323** results within Computer Science, Physics, Mathematics, Engineering, Energy Fuels, Imaging Science Photographic Technology, Telecommunications, Robotics, Remote Sensing, Automation Control Systems, Operations Research Management Science, Information Science Library Science and Science Technology Other Topics.

Among those, there were several works already found in other electronic data sources and thus removed as duplicates (together with other false positives). To all of remaining **82** studies we have applied inclusion and exclusion criteria in order to identify our primary studies. The results are reported in Tables 15 - 17.

2.7 Search and selection of the papers published by John Wiley & Sons

The automatic search of the papers published by John Wiley & Sons was performed by applying the string

```
((((("cyber physical" OR cyberphysical OR "networked control") AND systems)
  OR CPS OR NCS) AND (attack* OR secur* OR protect*)) in Article Titles OR
((((("cyber physical" OR cyberphysical OR "networked control") AND systems)
   OR CPS OR NCS) AND (attack* OR secur* OR protect*)) in Abstract OR
((((("cyber physical" OR cyberphysical OR "networked control") AND systems)
    OR CPS OR NCS) AND (attack* OR secur* OR protect*)) in Keywords
```

as a query in **Wiley Online Library**'s Advanced Search. The results were restricted to those published in 2015.

Twenty-seventh January 2018 this search gave **77** results.

To all of them we have applied inclusion and exclusion criteria in order to identify our primary studies. The results are reported in Tables 18 - 20.

Table 2: Studies **0001 - 0033** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0001	[ZXY+15]	✓					✓				
0002	[ZLLS15]	✗									
0003	[ZDW+15]	✓	✓	✗			✓				
0004	[PB15]	✓		✗			✓				
0005	[UCK15]	✓	✓				✓				
0006	[NS15]	✓					✓				
0007	[GVSH15]	✗									
0008	[SE15]	✓	✓	✓			✓				
0009	[RS15]	✓	✓	✓			✓				
0010	[CBSD15]	✗									
0011	[YYX+15]	✓		✗			✓				
0012	[SK15a]	✓					✓				
0013	[TAA15]	✓							✓		
0014	[LK15c]	✗	✗	✗			✓				Same as next
0015	[LK15d]	✗	✗	✗			✓				Same as before
0016	[DYS15]	✗									
0017	[LCHG15]	✗									
0018	[WxDWM15]	✗									
0019	[AKEA15]	✗									
0020	[HEDZ15]	✓	✓	✓			✓				
0021	[SSBZ15]	✓	✗	✓			✓				
0022	[SHL15]	✓	✗								Attack simulator testbed
0023	[HKF+15]	✓	✓	✓							New class of switching attacks
0024	[LLJG15]	✓	✗	✓							
0025	[ZWL+15]	✓	✗	✓			✓				
0026	[TTMM15]	✗									
0027	[ZTLL15]						✓				
0028	[Sli15]	✗									
0029	[PAM+15]	✗							✓		
0030	[DD15c]	✓		✗			✓				
0031	[YB15]	✓	✓	✓			✓				
0032	[DRZL15]	✓								✓	
0033	[SB15a]	✓	✓	✗			✓				Testbed

Table 3: Studies **0034 - 0065** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0034	[Che15]	✗								✓	
0035	[CML15]	✓	✓	✓			✓				
0036	[PSA+15]	✓	✗				✓				It presents a pattern-based language for guaranteeing security and dependability properties
0037	[WW15]	✓	✗				✓				
0038	[Wei15]	✓	✗				✓				Data-driven approach for detection
0039	[MAK+15]								✓		
0040	[PWX+15]	✓	✗								It proposes a dual-loop analysis model of CPSs
0041	[ZV15]	✓	✗								
0042	[PP15]	✓					✓				
0043	[SLZ15]	✓							✓		
0044	[GPJ+15]	✓					✓				
0045	[HYL+15]	✓	✓	✓			✓				
0046	[QCSC15]	✓	✓	✓							
0047	[PDB15]	✓	✓	✓							
0048	[KF15b]	✓	✓	✓							
0049	[NHV15]	✓	✓	✓							
0050	[YM15]	✓	✓	✓							
0051	[CIH15a]	✓	✓	✓							
0052	[DKBS15]	✗									
0053	[XZ15a]	✓	✓	✓							It was excluded during Data Extraction due to E3
0054	[STP15]	✓	✓	✓			✗				It's a work on consensus
0055	[YZF15]	✓	✗								
0056	[CWLL15]	✓	✗								
0057	[SNB+15]	✓	✓	✓							
0058	[KS15b]	✓	✓	✓			✓				
0059	[Bay15]									✓	
0060	[CM+15]	✓	✓	✗			✓				
0061	[WOL+15]	✓	✓	✓			✓				
0062	[BBR15]	✓		✓			✓				
0063	[DD15a]	✓	✗				✓				
0064	[SSSH15a]	✓	✗								
0065	[LHW15]	✓					✓				

Table 4: Studies **0066 - 0092** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0066	[AAB+15a]	✓	✓	✓			✓				
0067	[WKL15b]	✓	✓	✓			✓				
0068	[ULC15]	✗									
0069	[Hid15]	✓								✓	
0070	[LK15b]	✓	✓	✗			✓				
0071	[LSS15]	✓	✗								
0072	[MV15a]	✓	✓	✓			✓				
0073	[MGP15]	✗	✗								Impact of failures, rather than security, on observability
0074	[SG15]	✗									
0075	[SLC+15]	✗									It's focused on disturbances & faults, not security
0076	[AS15]	✓	✓	✓			✓				
0077	[NJ15]	✓	✓	✓							It was excluded during Data Extraction due to I2
0078	[WYW15]	✓	✓	✓			✓				
0079	[Luk15]	✗									
0080	[MBPS15]	✓	✓	✓			✓				Cyber-attacks against testbeds
0081	[SAD+15]	✓	✓				✓				Similar to [SADA15] in ACM
0082	[DJS15a]	✗									
0083	[CWS15]	✓	✗								It introduces a Cyber-Physical Topology Language (CPTL) to represent and reason about system security
0084	[SNRM15]	✓	✗								
0085	[WKL15a]	✓	✓	✓			✓				
0086	[OA15]	✓	✗								
0087	[VLGB15]	✓	✗								Decision trees-based approach
0088	[DFN15a]	✓	✗								It provides a sensitivity analysis of the finite moving average (FMA) test for the detection of an attack on SCADA
0089	[VLG15]	✓	✗								Similar to [VLGB15]
0090	[LLMP15]	✓					✓				
0091	[LFWR15]	✗									
0092	[AAG15]	✗	✗								It proposes an analytical method to evaluate the reliability indices in smart grid

Table 5: Studies **0093 - 0125** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0093	[TPA+15]	✗									
0094	[AIS+15]	✓	✓				✓				
0095	[RKK15a]	✓	✓				✓				
0096	[YTK+15]	✓					✓				
0097	[MMK+15]	✓					✓				
0098	[HMJJ15]	✓					✓			✓	
0099	[RMHV15]	✗									
0100	[HNSS15]	✗									
0101	[CGCQ15]	✓							✓		
0102	[SSC15]								✓		
0103	[LGS15a]	✓	✓	✓			✓				
0104	[WDZS15]	✓	✗				✓				
0105	[GLWH15]	✗	✗								
0106	[TSY+15]	✗	✗								
0107	[GPG15]	✗	✗								
0108	[DEB+15]	✗	✗								
0109	[HMF+15]	✗									
0110	[AG15]	✓	✓	✓			✓				
0111	[hXsZTsL15]	✗									
0112	[ASN+15]	✓	✓	✗			✓				
0113	[MZN+15]	✗								✓	
0114	[ZS15]	✓	✓	✓							
0115	[DMF+15]	✓	✓	✓							
0116	[DSB15]	✓	✓	✓							It was already included as [S088]
0117	[WSW15]	✗									
0118	[FRP15]	✓	✓	✗							
0119	[CDM+15]	✓	✓				✓				
0120	[AKK15]	✗									
0121	[MFSM15]	✗									
0122	[KGHS15]	✓	✗	✓							
0123	[LLL+15c]	✗									
0124	[Cer15b]	✗								✓	
0125	[DEDP15]	✗							✓		

Table 6: Studies **0126 - 0158** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0126	[WCF15]	✓	✓	✓			✓				
0127	[AAB+15b]	✗									
0128	[KMM+15]	✓	✓	✓			✗				
0129	[DL15]	✓	✓	✓			✓				
0130	[HDA+15]	✗									
0131	[PN15]	✓					✓				
0132	[VAH+15]	✓							✓		
0133	[KIK15]	✗									
0134	[DED+15]	✗									
0135	[Riz15]	✗								✓	
0136	[DYFZ15]	✓	✓	✓			✓				
0137	[XLL+15]	✓	✓	✓			✓				
0138	[Ses15]	✗									
0139	[PC15]	✓					✗				
0140	[MBK+15]	✓	✓	✓			✓				
0141	[AhW15]	✓	✗								
0142	[Sch15b]	✗									
0143	[MVM+15]	✓							✓		
0144	[KOSC15]	✓	✓	✓			✓				
0145	[WH15]	✓	✓	✓			✓				
0146	[AWBG15]	✓	✓	✓			✓				
0147	[WAG15a]	✓	✓	✓			✓				
0148	[YJM+15]	✓	✓	✓			✓				
0149	[RPM+15]	✓	✓	✓			✓				
0150	[LS15a]	✓							✓		
0151	[ZSWZ15]	✓	✗								
0152	[WlRmLnQ15]	✗									
0153	[DDTS15]	✓	✗								
0154	[SMS15]	✓	✓	✓			✓				
0155	[WBH15]	✓	✓	✓			✓				
0156	[SIH15]	✗									
0157	[PHZS15]	✓	✗								
0158	[DFH+15]	✓	✓	✓			✓				

Table 7: Studies **0159 - 0188** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0159	[PSJ15]	✗									
0160	[MSK+15]	✓	✓	✗							
0161	[MSM15]	✓	✗								
0162	[McM15]	✓								✓	
0163	[FM15]	✓	✗				✓				It focuses on statistical methods to quantify information leakage in CPSs
0164	[CGC+15]	✗									
0165	[SWYC15]	✗									
0166	[Ver15b]	✓								✓	
0167	[Gal15]	✓								✓	
0168	[Ver15a]	✓								✓	
0169	[Bon15]	✓								✓	
0170	[SFP15]	✗									
0171	[RMS+15]	✓	✓	✓			✓				
0172	[VYP15]	✓	✓	✓							Excluded during Data Extraction due to I2, E5
0173	[JTS15]	✓	✗				✓		✓		It reviews and describes a generalized model for physical-layer-based confidential data transmission and wireless authentication.
0174	[YRY+15]	✓	✗								
0175	[AX15]	✓					✓				
0176	[ZFYD15]	✓	✗								
0177	[ZLD+15]	✓					✓				
0178	[SGKS15]	✓	✗								
0179	[WAK15]	✓					✓				
0180	[XLXZ15]	✓	✓	✓			✓				
0181	[FKSS15]	✓	✓	✓							
0182	[SSSH15b]	✓	✗								
0183	[SiA15]	✓	✗								
0184	[XLX+15]	✓	✓	✓			✓				
0185	[KRK+15]	✗									
0186	[KKLL15]	✓					✓				
0187	[Lee15]	✗								✓	
0188	[Cer15a]	✗								✓	

Table 8: Studies **0189 - 0219** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0189	[SKWT15]	✓					✓				
0190	[HDN15]	✓	✓	✓			✓				
0191	[DAH+15]	✗					✓				
0192	[RKK15b]	✓	✗				✓				
0193	[GCW15]	✓								✓	
0194	[TPGN15a]	✓	✗				✓				Same as [TPGN15b]
0195	[GG15]	✗									
0196	[RC15]	✓					✓				
0197	[NTL15]	✗									Data recovery using Kalman filter
0198	[SABF15a]	✓					✓				
0199	[GZ15]	✗									It presents a theoretical framework for studying cascading failures in an inter-dependent, multi-layer system
0200	[CKM15]	✓	✓	✓							
0201	[DD15b]	✓							✓		
0202	[VM15b]	✓	✓				✓				
0203	[LT15]	✓	✓	✓			✓				
0204	[VAD+15]	✓							✓		
0205	[CS15]	✓					✓				
0206	[LCBP15]	✓	✓	✓							Excluded during Data Extraction due to I1, E3
0207	[Ant15]	✗								✓	
0208	[LCA+15]	✓	✓	✓							Excluded during Data Extraction due to I1, E3
0209	[YL15]	✓	✓	✗							
0210	[BPG15]	✓	✓	✓							Already considered as [S100], internal ID 7282
0211	[Yed15]	✓	✗	✗							
0212	[TAG15]	✓	✓	✓							
0213	[LSC+15]	✓	✓	✓							
0214	[SWW15a]	✓							✓		
0215	[WF15]	✗							✓		
0216	[SLCT15]	✓							✓		
0217	[DFT15]	✓					✓				
0218	[MdCA15]	✗								✓	
0219	[HPZS15]	✓	✗								

Table 9: Studies **0220 - 0252** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0220	[Cze15]	✓					✓				
0221	[STL+15]	✗									
0222	[LYX+15]	✓	✗								
0223	[SB15b]	✗									
0224	[GVLD15]	✓	✗								
0225	[SABF15b]	✗									
0226	[EJ15]	✗									
0227	[MS15]	✓	✗	✗							
0228	[XZL+15]	✗									
0229	[XQ15]	✓					✓			✓	
0230	[GZV+15]	✗									
0231	[KMS+15]	✓							✓		
0232	[HFK15]	✓	✓	✓							
0233	[AMRP15]	✓	✓	✓							Already considered as [S050], internal ID 7074
0234	[CPG+15]	✓	✓	✓			✓				
0235	[XDW15]	✓					✓				
0236	[XWZ15]	✓	✓	✓			✓				
0237	[VM15a]	✓					✓				
0238	[LBPV15]	✗									
0239	[GVK15]	✗									
0240	[XWW+15]	✗									
0241	[MMZ15]	✓					✓				
0242	[TWC+15]	✓					✓				
0243	[LCH+15]	✓	✓	✓			✗				It's a work on consensus
0244	[SS15]	✗								✓	
0245	[LVB+15]	✓	✓	✓			✓				
0246	[HWT+15]	✓					✓				
0247	[IKK+15]	✓							✓		
0248	[LP15]	✓								✓	
0249	[CDMK15]	✓					✓				
0250	[Red15]	✓					✓				
0251	[DTDS15]	✓	✗	✗			✓				
0252	[RAN15]	✓	✓	✓			✓				

Table 10: Studies **0253 - 0276** (in cronological order) from **IEEE Xplorer Digital library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
0253	[HOS+15]	✗									
0254	[LS15d]	✓	✗	✗							
0255	[VHP+15]	✓					✓				
0256	[KTS+15]	✗									
0257	[Rag15]	✗									
0258	[JSHG15]	✗									
0259	[SMZ+15]	✗									
0260	[UT15]	✓					✓				
0261	[AY15]	✗									
0262	[DDZ+15]	✓	✓	✓			✓				
0263	[AW15a]	✓	✓	✗							
0264	[SLW15]	✗							✓		
0265	[MQ15]	✓	✓	✓			✗				
0266	[HMV15]	✓								✓	
0267	[VS15]	✓								✓	
0268	[SDZNA15]	✗							✓		
0269	[DPL15]	✗									
0270	[WCXT15]	✓	✓	✓			✓				
0271	[BC15]	✗									
0272	[LLZ+15b]	✗									
0273	[NZC15]	✗									
0274	[QCSL15]	✗									
0275	[LLL+15a]	✗									
0276	[SK15b]	✗									

Table 11: Studies **1001 - 1029** (in cronological order) from **ACM DL Digital Library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
1001	[LZZSV15]	✓	✓	✓			✓				Security-aware design focused on communication protocols
1002	[MMA+15]	✗									
1003	[DJS15b]	✗									both IEEE and ACM
1004	[PDGL15]	✗									Resilience and heterogeneity only, no security
1005	[SM15]	✗									Implication on security discussion only
1006	[XZ15b]	✓	✓	✓							
1007	[KGJ+15]	✓	✗								Definition of a testbed
1008	[ALVK15]	✓					✓				
1009	[KSG+15]	✓	✗								
1010	[YCY+15a]	✓	✗						✓		
1011	[GPBH15]	✓	✗						✓		
1012	[SFH+15]	✗									
1013	[CZMM15]	✗									Safety property
1014	[AT15]	✓	✗								
1015	[RRDN+15]	✓	✗	✓			✓				Sensor trustworthiness and analysis contracts approach
1016	[SDSG15]	✓	✓	✓							
1017	[WMN+15]	✗									
1018	[KF15a]	✓	✓				✓				
1019	[Str15]	✗								✓	
1020	[AFRP15]	✓	✗								It presents a framework for design of secure control systems
1021	[AW15b]	✗									
1022	[PRP15]	✓	✗				✓				
1023	[vBM15]	✓	✓	✗			✓				
1024	[HCM15]	✗									
1025	[LGS15b]	✗									Both on IEEE and ACM
1026	[SWW15b]	✓	✗						✓		Also on IEEE
1027	[SF15]	✗									Embedded systems only
1028	[HZGB15]	✗									
1029	[TPGN15b]	✓	✗				✓				It presents a a tool for engineering topology aware adaptive security for CPSs

Table 12: Studies **1030 - 1054** (in cronological order) from **ACM DL Digital Library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
1030	[VKMF15]	✓	✗						✓		
1031	[LVK15]	✓					✓				
1032	[GGI+15]	✓					✓				
1033	[ACDGP15]	✓	✓				✓				
1034	[SSA15]	✓					✓				
1035	[PIW+15]	✓	✓	✓							It was excluded during Data Extraction due to E3
1036	[BJC15]	✗									
1037	[MLMK15]	✗									
1038	[SMSG15]	✓					✓				Safety and security in holistic approach
1039	[XSV15]	✗									
1040	[BYH+15]	✓	✗	✓			✓				
1041	[DLT+15]	✗									
1042	[Nar15]	✓	✗	✗			✓		✓	✓	
1043	[SLM15]	✓	✓	✓			✓				
1044	[HL15]	✓								✓	
1045	[Iye15]	✗								✓	
1046	[RRK+15]	✓	✓	✓			✓				
1047	[CHPB15]	✓	✗	✓			✓				
1048	[KLG15]	✓	✗	✓							Application paper focused on security of Tennessee Eastman challenge process
1049	[CZK15]	✓	✓	✓			✓				
1050	[YFGP15]	✓	✓	✓			✓				
1051	[DV15]	✗									
1052	[BPH15]	✓	✓	✓							It was excluded during Data Extraction due to I2
1053	[SADA15]	✓	✓				✓				Simulink and Opnet based platform to carry out a cyber-intrusion
1054	[YLB15]	✓	✓	✗			✓				

Table 13: Studies **2001 - 2033** (in cronological order, from newest to oldest) from **ScienceDirect**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
2001	[LS15b]	✗									
2002	[Cas15]	✗				✓				✓	
2003	[HTLC15]	✓	✓	✓							It was excluded during Data Extraction due to I2
2004	[HSBC15]	✗									
2005	[ZSZ+15]	✗									Model checking via hybrid interface automata
2006	[RCL15]	✗					✓				
2007	[CLT15]	✗					✓				
2008	[SSH15]	✗									
2009	[LHL15]	✗									Sharing of Health Records in cloud computing
2010	[LAL+15]	✗									
2011	[WAG+15b]	✗									
2012	[KRF15]	✗									
2013	[MRN+15]	✓					✓				
2014	[AWS15]	✗									
2015	[Sed15]	✗									
2016	[GKH15]	✓	✗				✓				Impact of cyber attacks on critical infrastructures
2017	[GK15]	✗									
2018	[KKD15]	✗									
2019	[LSL+15]	✓	✓	✓							It was already included as [S054]
2020	[GMR15]	✓	✗	✓			✓				
2021	[KS15a]	✓					✓				
2022	[PBK+15]	✗									
2023	[KPCBH15]	✓	✗						✓		A survey for industrial control systems
2024	[TBL+15]	✗	✗						✓		Security mechanisms, schemes in network coding
2025	[ABLB15]	✗									
2026	[ndlEMnC+15]	✗									
2027	[SMSGY15]	✗									
2028	[LFRX15]	✗									
2029	[ZWH+15]	✗									Already seen in the original report
2030	[AFP+15]	✗									Already seen in the original report
2031	[HTY15]	✗									Already seen in the original report
2032	[NNR+15]	✗									
2033	[TSSJ15]	✓	✓	✓							Already seen in the original report

Table 14: Studies **2034 - 2051** (in cronological order, from newest to oldest) from **ScienceDirect**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
2034	[LZ15]	✓		✗							
2035	[CIH15b]	✓	✓	✓							
2036	[FMM+15]	✗									
2037	[DFN15b]	✓	✓	✓							
2038	[RKS+15]	✓	✓	✓							
2039	[J15]	✗									
2040	[Kar15]	✓	✗								Insight on CPS security for industrial agents
2041	[YHK+15]	✓	✗								Already seen in the original report
2042	[AZS+15]	✗									
2043	[GBR15]	✓	✗								
2044	[PM15]	✓	✗	✗							Discrete event simulation model helping to identify key safeguards that limit attacks on CPSs
2045	[Ara15]	✗	✗	✗							Implications and challenges of cybersecurity to smart devices in smart connected homes
2046	[HHM15]	✗	✗								
2047	[KGA15]	✗									
2048	[VWTC15]	✓		✗							Real-time attack detection in CPSs for manufacturing (inspired by side-channel schemes)
2049	[Poz15]	✗									
2050	[KHB15]	✓	✗						✓		
2051	[LK15a]	✓	✗						✓		Risk assessment in smart grids

Table 15: Studies **3001 - 3030** (in cronological order, from newest to oldest) from **Web of Science**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
3001	[YSZ15]	✓	✓	✓							
3002	[BKKG15]	✗					✓				Network science based quantitative framework for measuring, comparing and interpreting hazard responses and recovery strategies, demonstrated with the Indian Railways Network
3003	[YCY+15b]	✗									
3004	[ADL+15]	✗									
3005	[CTS+15]	✗									
3006	[LQH+15]	✗									
3007	[TYH15]	✗									
3008	[HBZ15]	✗									
3009	[HWGH15]	✗									
3010	[XGS+15]	✗									
3011	[KTY+15]	✓	✓	✓			✓				
3012	[YYYD15]	✗									
3013	[LWSG15]	✗									
3014	[LKAS15]	✗									
3015	[FBLDG15]	✗									
3016	[ZWD+15]	✗									
3017	[YS15]	✗									Already considered as 7014
3018	[TJLW15]	✗									
3019	[TEPS15]	✗									
3020	[SLU+15]	✗									
3021	[SBvG+15]	✗									
3022	[WJW+15]	✗									
3023	[NAK15]	✗									
3024	[OK15]	✗									
3025	[MXWW15]	✗									
3026	[WSJ+15]	✗									
3027	[MvdHvL+15]	✗									
3028	[WCD15]	✗									
3029	[NL15]	✗									
3030	[dVDL+15]	✗									

Table 16: Studies **3031 - 3055** (in cronological order, from newest to oldest) from **Web of Science**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
3031	[GA15]	✓	✗								It's an interesting work on privacy
3032	[BS15]	✗									
3033	[DTDPH15]	✓	✗	✗							
3034	[PTLP15]	✓	✓	✓							
3035	[TMSK15]	✗									
3036	[VNHB15]	✗									
3037	[Raw15]	✗									
3038	[RKR+15]	✗									
3039	[TLZ+15]	✓	✗	✓							
3040	[GAP14]	✓	✓	✓			✓				
3041	[ZLSS14]	✓	✗	✗							It was found by error (published in 2014 but not previously considered)
3042	[MV15b]	✓	✓	✗							
3043	[SHWG15]	✗									
3044	[KL15]	✗					✓				
3045	[SMAS15]	✗									
3046	[PFZ15]	✗					✓				
3047	[WWAS14]	✗					✓				It was found by error (published in 2014 but not previously considered)
3048	[MAM15]	✗									It presents a holistic approach to the security and trust of embedded devices
3049	[AR15]	✓	✗								
3050	[Sar15]	✓	✓	✓			✓				Intrusion detection system development using the ontology-based representation of networks
3051	[RLB15]	✓	✓	✓			✓				Symbolic cyber- physical honeynet framework
3052	[JB15]	✓					✓				It addresses the runtime integrity threats that target software programs in CPSs
3053	[YSVY15]	✓	✗	✗							It discusses the attacks on the physical properties of additive-manufactured components
3054	[How15]	✓	✓	✓			✓				An algorithm based on info flow security techniques to secure physical assets, cyber assets and the boundaries between security domains of CPSs
3055	[HJN15]	✗		✗			✓				

Table 17: Studies **3056 - 3075** (in cronological order, from newest to oldest) from **Web of Science**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
3056	[AIH15]	✗									A detailed state-of-the-art survey on the testing approaches performed on the CPS
3057	[Frö15]	✓					✓				
3058	[dFPC+15]						✓				Security system for shared sensor networks
3059	[HKZ+15]	✗									
3060	[DGG+15]	✗									
3061	[CMB+15]	✗									
3062	[RSA15]	✗									
3063	[GE15]	✗									A novel approach for historical Internet connectivity assessment of services
3064	[LLZ15a]						✓				A secure group setup and anonymous authentication scheme in the platoon-based vehicular CPS
3065	[FMS15]	✓		✗							A framework that ensures resilient smart grid operation in light of successful cyber-attacks
3066	[KWS15]						✓				
3067	[PK14]	✗									
3068	[DHG+15]	✗									
3069	[KTA+15]	✗									
3070	[Liu15]	✗									
3071	[DFBB+15]	✗									
3072	[NZS15]	✗									
3073	[LW15]	✓					✓				
3074	[LWL+15]	✗									
3075	[BKP+15]	✗									
3076	[PZT+15]	✗									
3077	[PBM+15]	✗									
3078	[XZS+15]	✗									
3079	[ISCC15]	✗									
3080	[FPH+14]	✗									Already seen in the original report
3081	[PRS+15]	✗									
3082	[LYC+15]	✗									Already seen in the original report

Table 18: Studies **5001 - 5033** (in cronological order) from **Wiley Online Library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
5001	[CSoM+15]	✗									
5002	[AK15]	✗					✓				
5003	[C+15a]	✗									
5004	[GUO15]	✗									
5005	[BZD15]	✗									
5006	[Z+15c]	✗									
5007	[Jac15a]	✗									
5008	[Jac15b]	✗									
5009	[Jac15c]	✗									
5010	[FLS15]	✗									
5011	[BSV+15a]	✗									
5012	[MvBT15]	✗									
5013	[BSD15]	✗									
5014	[GKW15]	✗									
5015	[ABB15]	✗									
5016	[Pad15]	✗									
5017	[Sch15a]	✗									
5018	[Bro15]	✗									
5019	[HTX15]	✗									
5020	[KE15]	✗									
5021	[TZC+15]	✗									
5022	[AYL+15]	✗									
5023	[S+15a]	✗									
5024	[Mis15]	✗									
5025	[LL15]	✗									
5026	[MC15]	✗									
5027	[PGAS15]	✗									
5028	[Gre15]	✗									
5029	[HNK15]	✗									
5030	[C+15b]	✗									
5031	[OTGOY+15]	✗									
5032	[LBW15]	✗									
5033	[Har15]	✗									

Table 19: Studies **5034 - 5067** (in cronological order) from **Wiley Online Library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
5034	[XBW+15]	✗					✓				
5035	[n/a15]	✗									
5037	[AAS+96]	✗									
5038	[LLL15b]	✗									
5039	[UM15]	✗									
5040	[BSV+15b]	✗									
5041	[LGWH15]	✗									
5042	[WMSK01]	✗									
5043	[Neg15]	✗									
5044	[A+15]	✗									
5045	[S+15b]	✗									
5046	[K+15]	✗									
5047	[WCS+15]	✗									
5048	[VZFPM15]	✗									
5049	[Bal15]	✗									
5050	[LLDY15a]	✗									
5051	[LLDY15b]	✗									
5052	[LZQ+15]	✗									
5053	[Z+15b]	✗									
5054	[GGW15]	✗									
5055	[LS15c]	✗									
5056	[MHH+15]	✗									
5057	[RA15]	✗									Basic principles for cyber security
5058	[KZ99]	✗									
5059	[SLGW15]	✓	✗	✗							
5060	[Hoo15]	✗									
5061	[KDTK+15]	✗									Already seen in the original report
5062	[MKD+15]	✗									Already seen in the original report
5063	[LC15]	✗									
5064	[Pen15]	✗									Already seen in the original report
5065	[ZJZ+15]	✗									
5066	[AGS+15]	✗									Already seen in the original report
5067	[MGH15]	✗									Already seen in the original report

Table 20: Studies **5068 - 5077** (in cronological order) from **Wiley Online Library**

ID	Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
5068	[Z+15a]	✗									
5069	[XS15]	✗									Already seen in the original report
5070	[AFAH15]	✗									Already seen in the original report
5071	[Zhu15b]	✗	✗								Already seen in the original report
5072	[Zhu15a]	✗									Already seen in the original report
5073	[WHGM15]	✗									Already seen in the original report
5074	[LZAS15]	✗									Already seen in the original report
5075	[MAIA15]	✗									Already seen in the original report
5076	[CZCJ15]	✗									Already seen in the original report
5077	[TC16]	✗									

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