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MANUAL SEARCH REPORT

Cyber-Physical Systems Security: a Systematic Mapping Study

VERSION 1.0

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ABSTRACT

In order to create a good search string for the automatic search of potentially relevant papers for our mapping study, we performed a manual search in a small number of venues related to our topic of interest. This report provides details of this manual search and selection.

KEYWORDS

Systematic mapping study, manual search, quasi-gold standard, cyber-physical systems, CPS, networked control systems, NCS, security, attacks, protection.

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1 Manual search

The execution of a search string on a set of electronic databases and indexing systems is called automatic search. In the literature it is the dominant method for identifying potentially relevant papers [CBZ10]. To create a good search string for the automatic search, we established a *quasi-gold standard* (QGS), as proposed by Zhang and Babar [ZBT11]. This requires a manual search in a small number of venues. The chosen venues are listed in Table 1.

Venue	**Publisher**
International Conference on High Confidence Networked Systems (HiCoNS)	ACM
International Journal of Critical Infrastructure Protection (IJCIP)	Elsevier
International Symposium on Resilient Control Systems (ISRCS)	IEEE

Table 1: Selected venues for manual search

The considered time interval is **between December 2008 and November 2014**, since the earliest of above mentioned venues dates back to December 2008. Thus, we examined **45** papers from **HiCoNS**, **98** articles from **JCIP** and **146** papers from **ISRCS**.

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.

The results of the described selection procedure are reported in the following Tables 2 - 18.

Table 2: Studies from HiCoNS'12

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[LZSK12]	✓	✓	✓			✓				Multi-agent nets: ARC-P consensus despite adversaries
[CVE+12]	✗	✗	✓							Hidden Markov model-based characterization of channel
[LKZBP12]	✓	✓	✓							Coordinated variable structure switching attack mitigation
[CBP12]	✓	✓	✓			✓				Multi-agent systems: link noise injection attacks resilience
[ZB12]	✓	✓	✗			✓				Robust control & cyber sec policy against cascading failures
[MS12]	✓	✓	✓							Integrity attacks on CPS: necessary condition to destabilise
[TPSJ12]	✓	✓	✓							Attacks on NCS: models, analysis and counter-measures
[WKJ12]	✗	✗	✓							Fault detection & isolation pb. in power nets
[HA12]	✓	✗	✓							Experimentation framework: testing NCS via DoS attacks
[YXL+12]	✓	✗	✓							CPS security experimentation: integrated platform

Table 3: Studies from HiCoNS'13

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[AKU13]	✗	✗	✓							
[BRY+13]	✗	✗	✓							
[CBK13]	✓	✗	✗							Adaptive distributed MILS architecture for automotive
[CC13]	✓	✓	✓			✓				Examples of cyber attack detection in distributed systems
[EPP13]	✗	✗	✓			✓				Control of viral spreading in networks
[HL13]	✗	✗	✓							
[LNP13]	✗	✗	✓							
[LK13]	✗	✗	✗			✓				Algorithms for determining the network robustness
[MBB+13]	✗	✗	✓			✓				Intrusion detection in real-time systems
[PBW+13]	✓	✗	✗						✓	Extended abstract: design framework for vehicular control
[PK13]	✓	✓	✓			✓				Information flaw analysis: non-inference for hybrid systems
[QDTV13]	✗	✗	✓							
[SAT+13]	✓	✓	✓							Minimax control for CPS under packet scheduling attacks
[SLBK13]	✗	✗	✓							
[Tar13]	✗	✗	✓							
[WAI+13]	✗	✗	✓							Contract-based blame assignment in FDIR
[WVJ13]	✗	✗	✓							Distributed model-invariant (fault) detection
[YHK+13]	✓	✗	✗							Taxonomy for description of cross-domain attacks on CPS

Table 4: Studies from HiCoNS'14

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[IPL14]	✗	✗	✓							Resilient multidimensional sensor fusion w/o focus on sec
[DROS14]	✗	✗	✓							
[LH14]	✓	✓	✓			✓				RIDE algorithm is for any complex distributed system
[Poo14]	✓	✓	✗						✓	Only the abstract is available in proceedings
[TVS14]	✓	✗	✗			✓				Interoperable medical devices cyber security analysis
[YVK+14]	✗	✗	✓							Resilient distributed consensus protocol: graph theory
[MSN14]	✓	✗	✓			✓				Self-organizing maps algorithm for net sec monitoring
[TMBS14]	✓	✓	✓							Presents approach to revealing stealth attacks (design)
[LSA+14]	✗	✗	✓			✓				Multi-agent networks are concerned only with cyber part
[TDJ+14]	✓	✓	✓							Presents sensor spoofing attacks' detection approach
[HL14]	✗	✗	✓							
[HWMD14]	✗	✗	✓							
[EK14]	✓	✓	✓							Presents energy-based attack detection mechanism
[Cí14]	✓	✗	✗						✓	Invited talk: only the abstract is available in proceedings
[MT14]	✗	✗	✓							
[PA14]	✓	✗	✓							Network interdiction model for analysing vulnerabilities
[SS14]	✓	✓	✓			✓				Cyber-insurance protocol for large scale networks

Table 5: Studies from ISRCS'09

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[OB09]	✗	✗	✗							
[RO09]	✗	✗	✓			✓				Identification and assessment of vulnerabilities in ICS *nets*
[CCD+09]	✗	✗	✗							
[VM09]	✗	✗	✓							
[GSJS09]	✓	✗	✗							
[WM09]	✗	✗	✗							
[KKS09]	✓	✓	✓			✓				A passivity-based framework for resilient CPS
[VVN09]	✗	✗	✓						✓	
[KK09]	✗	✗	✓							
[LWH+09]	✗	✗	✓							
[TP09]	✗	✗	✗							Phase-space reconstruction via time-delay embedding: novel

Table 6: Studies from ISRCS'10

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[Wil10]	✗	✗	✓							
[WJ10]	✓	✗	✗							Resilient ICS: concepts, formulation, metrics, insights
[CB10]	✗	✗	✓							
[VSM10]	✗	✗	✓							
[FCG10a]	✗	✗	✓							
[FCG10b]	✗	✗	✓							
[VVG+10]	✗	✗	✓							Automated handling of exceptional events in FDI
[NS10]	✗	✗	✓							
[Che10]	✗	✗	✗							
[Rie10]	✗	✗	✗							
[VMG+10]	✗	✗	✗							
[SS10]	✗	✗	✓							
[YL10]	✗	✗	✓							
[DPB+10]	✗	✗	✓							
[MSNS10]	✗	✗	✓							
[DSMB10]	✗	✗	✓							
[GADC10]	✗	✗	✓							
[KPKS10]	✗	✗	✓							
[BOAFS10]	✗	✗	✓							
[BG10]	✗	✗	✗							
[OS10]	✗	✗	✗						✓	

Table 7: Studies from ISRCS'11

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[SL11]	✗	✗	✗							
[ZRB11]	✓	✓	✗							CPS: hierarchical sec architecture, game-theoretic strategy
[Coh11]	✓	✗	✗							
[LMAFV11]	✓	✓	✓			✓				Fuzzy logic based *net* anomaly detection cyber sensor
[LMM11]	✗	✗	✓							State-awareness of resilient control system
[Kho11]	✗	✗	✓							
[STC11]	✗	✗	✓							
[VGVR11]	✗	✗	✓							
[GJK+11]	✗	✗	✓			✓				Resilient autonomous decentralized *monitoring* system
[BAK11]	✗	✗	✓							
[VVGR11]	✗	✗	✓							
[CNG11]	✗	✗	✓							
[MEM11]	✗	✗	✓							
[CR11]	✗	✗	✓							
[PANB11]	✓	✓	✓			✓				Trust & reputation management of smart meters in AMI
[KG11]	✗	✗	✓							
[DY11]	✗	✗	✓							
[JDMN11]	✗	✗	✓							
[BDB11]	✗	✗	✓							
[KLZ11]	✗	✗	✓							
[LMK+11]	✗	✗	✓							
[DBC+11]	✗	✗	✓							
[LLL11]	✗	✗	✓							
[Sch11]	✗	✗	✓							Information theory in agile control (ship auxiliary system)
[MP11]	✗	✗	✓							

Table 8: Studies from ISRCS'12

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[Bly12]	✗	✗	✗							
[SCC12]	✗	✗	✗							
[Ger12]	✗	✗	✗							
[CO12]	✗	✗	✓							
[HMR12]	✗	✗	✗							
[RZB12]	✗	✗	✗							Agent-based resilient control systems for CPS
[LMV12]	✓	✓	✓			✓				*Net* anomaly detection via linguistic domain knowledge
[YHK+12]	✓	✓	✗							Data-flow diagrams extension in analysis of CPS attacks
[BB12]	✗	✗	✓							Emulating field devices using gumstix technology
[MM12]	✗	✗	✓							
[LWMR12]	✗	✗	✓							
[Tol12]	✗	✗	✗							
[TYG12]	✗	✗	✓							
[GLM12]	✓	✗	✓			✓				Resilient condition assessment *monitoring* system
[RIM12]	✗	✗	✓							
[GSFW12]	✓	✗	✓			✓				Model reference adaptive control architecture: w/o net
[HYX+12]	✗	✗	✓							
[GLMR12]	✓	✓	✓			✓				Data quality assessment in resilient *monitoring* systems
[EKK12]	✗	✗	✓							
[FBDB12]	✗	✗	✓							
[RV12]	✗	✗	✗							Resilient control system execution agent is presented
[NN12]	✗	✗	✓							
[BLM12]	✗	✗	✓							Assessing resilience of complex dynamical systems (safety)
[HHPH12]	✓	✗	✗							Cyber-physical attack modelled via hybrid attack graph
[CMC12]	✗	✗	✓							
[MK12]	✓	✗	✗							
[CSC12]	✗	✗	✓							
[Cra12]	✗	✗	✓							
[KBG12]	✗	✗	✓							

Table 9: Studies from ISRCS'13 - Part 1

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[RZ13]	✗	✗	✗							Hierarchical multi-agent dynamical system architecture
[MFL+13]	✓	✗	✓							Rigorous def.s for state awareness, op. normalcy & resiliency
[LCGW13]	✗	✗	✓							
[TRB+13]	✗	✗	✓							
[RPM+13]	✗	✗	✗							Infrastructures with large number of discrete components
[Kim13]	✗	✗	✗							
[BBD13]	✗	✗	✓							
[BS13]	✓	✓	✓							Stealth attack resilient CPS
[YZS+13]	✓	✓	✓							CPS resilient against DoS attacks
[PLY13]	✗	✗	✓							
[JN13]	✗	✗	✓							
[PAS+13]	✗	✗	✓							
[WMR13]	✗	✗	✓							
[SSNK13]	✗	✗	✓							Net intruder detection: graph structured hypothesis testing
[LG13]	✗	✗	✓			✓				Resilient condition assessment *monitoring*: game theory
[GLMR13]	✓	✓	✓			✓				Resilient *monitoring* system for *boiler/turbine plant*
[RMR13]	✗	✗	✓							
[Smi13]	✗	✗	✓							Non-destructive state machine reverse engineering
[CP13]	✗	✗	✓							
[OW13]	✗	✗	✓							
[MBD+13]	✗	✗	✗							Behaviour models for CPS defence
[BEE13]	✗	✗	✓							
[ZRCT13]	✗	✗	✗							
[ZZB+13]	✗	✗	✓							MTD or network security
[TPN+13]	✗	✗	✓							
[CEB+13]	✗	✗	✓							Enterprise nets: MTD via command & control approach
[CMAA13]	✗	✗	✗							
[LSG13]	✗	✗	✓							
[KL13]	✗	✗	✓							

Table 10: Studies from ISRCS'13 - Part 2

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[PMK+13]	✗	✗	✗							
[KFM13]	✗	✗	✗							
[FC13]	✗	✗	✗							
[NUHS13]	✗	✗	✓							

Table 11: Studies from ISRCS'14

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[ZSNN+14]	✗	✗	✓							
[TEK14]	✗	✗	✓							MTD via multiple OS rotating environment
[OWD14]	✗	✗	✓							
[DDGF+14]	✗	✗	✗							
[LDF+14]	✗	✗	✗							
[AA14]	✗	✗	✓							
[BKNB14]	✗	✗	✓							
[AN14]	✗	✗	✓							
[FGB14]	✗	✗	✓							Quantification of cyber-resilience for information systems
[KSN14]	✗	✗	✓							
[BHBB+14]	✓	✗	✓							Power systems: viability of machine learning in IDS
[FPLP14]	✗	✗	✓							
[XPZ+14]	✗	✗	✗							Security analysis of radio modem in SCADA
[MBDK14]	✗	✗	✓							
[BBGS14]	✗	✗	✗							Resiliency techniques for systems-of-systems
[AVK14]	✗	✗	✓							Resilient consensus protocol via trusted nodes
[RFBB14]	✓	✗	✗							Human behaviour in CPS architecture: adversary dynamics
[NBKF14]	✗	✗	✓							
[MLL+14]	✗	✗	✓							VirusBattle: malware interrelationships analysis
[ZSNCZ14]	✗	✗	✓							
[RBB+14]	✗	✗	✓							
[GKB+14]	✗	✗	✓							
[BDTM14]	✗	✗	✓							
[Rie14]	✗	✗	✓							Resilient control systems: practical metrics basis
[JN14]	✗	✗	✓							
[LBUT14]	✗	✗	✗							
[LBU14]	✗	✗	✗							

Table 12: Studies from the International Journal of Critical Infrastructure Protection (Volume 1)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[Ass08]	✗	✗	✗							
[HGW08]	✗	✗	✗							Security and the US rail infrastructure
[CO08]	✗	✗	✓							
[HCPS08]	✗	✗	✗							Attack taxonomies for the Modbus protocols
[Mac08]	✗	✗	✗							
[Cro08]	✗	✗	✓							
[SBGS08]	✗	✗	✗							Security analysis of RSVP-TE signalling in MPLS networks
[LWC08]	✗	✗	✓							Insider game to protect organization's information assets
[TXG08]	✗	✗	✗							Common body of knowledge for ISCIP

Table 13: Studies from the International Journal of Critical Infrastructure Protection (Volume 2)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[BNX09]	✗	✗	✓							Structural vulnerabilities' analysis in power grids
[AMGC09]	✓	✗	✓							Optimal security *hardening* of control networks
[JAL+09]	✗	✗	✗							
[RSZ09]	✗	✗	✗							
[WK09]	✗	✗	✓							
[HCA+09]	✓	✗	✗							Physical and economic consequences of attacks on NCS
[ON09]	✓	✗	✗							Security architectures for ICS: new technologies' overview
[STS09]	✗	✗	✗					✓		
[RGQ+09]	✗	✗	✓							
[Tol09]	✗	✗	✗							
[FCMT09]	✓	✗	✗							Impact of traditional ICT malware on SCADA systems
[GGB+09]	✗	✗	✗							Analysis of security threats to MPLS VPNs
[KDBK09]	✗	✗	✓							
[SPS09]	✗	✗	✓							
[DCS09]	✗	✗	✗							

Table 14: Studies from the International Journal of Critical Infrastructure Protection (Volume 3)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[RBMS10a]	✗	✗	✗							
[JWJH10]	✗	✗	✓			✓				CI protection under imperfect attacker perception
[Ste10]	✗	✗	✓							
[TASA10]	✗	✗	✗							
[PCC10]	✗	✗	✗							Avoiding ambiguities in the terms “security” & “safety”
[HLZ10]	✗	✗	✓							
[OPS10]	✗	✗	✗							Agent-based input-output interdependency model
[Cro10]	✗	✗	✗							
[Moo10]	✗	✗	✗							The economics of cyber security
[RBMS10b]	✗	✗	✗							
[HG10]	✗	✗	✗							
[BFM+10]	✗	✗	✓							
[ATM10]	✓	✗	✓							Semantic model for information flow analysis in CPS
[CHB10]	✓	✓	✗			✓				Mutual authentication of process control system nodes

Table 15: Studies from the International Journal of Critical Infrastructure Protection (Volume 4)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[RMS11]	✗	✗	✗							
[GB11]	✗	✗	✗							
[CGL11]	✗	✗	✓							
[MG11]	✗	✗	✓							SCADASiM simulation framework
[RBS11]	✗	✗	✗							Signalling framework to deter aggression in cyberspace
[Rru11]	✓	✓	✓			✓				*Net* IDS in industrial comm nets
[MBM11]	✗	✗	✗							
[MSR+11]	✗	✗	✗							Control system test bed to validate CI protection concepts
[BD11]	✓	✓	✓			✓				IP *net architecture* to mitigate distributed DoS on NCS
[LAZ11]	✗	✗	✗							
[RTT+11]	✗	✗	✓							
[Sin11]	✗	✗	✗							
[OPS11]	✗	✗	✓							

Table 16: Studies from the International Journal of Critical Infrastructure Protection (Volume 5)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[RZ12]	✗	✗	✓							
[BCG+12]	✗	✗	✓							
[OCRH12]	✗	✗	✓							MTD using platform diversity: TALENT framework
[GRS12]	✗	✗	✓							Hyperspeed label switching paths protocol for MPLS
[AEPW12]	✗	✗	✗							
[ST12]	✗	✗	✓							Radio-frequency-based anomaly detection for PLCs
[RRL+12]	✗	✗	✓			✓				*Net* IDS for embedded control systems in the power grid
[CNC+12]	✗	✗	✓							Secure mediation gateway for secure comm among CIs
[Dec12]	✗	✗	✗							
[KJG12]	✗	✗	✓							
[BMC12]	✓	✗								Modelling security in CPS through Byzantine paradigm
[HM12]	✓	✗	✗							Security analysis of drive-by-wire automobile systems
[AL12]	✗	✗	✗							
[SHF12]	✓	✗	✗							GPS spoofing attacks against PMU: evaluation
[RM12]	✗	✗	✗							

Table 17: Studies from the International Journal of Critical Infrastructure Protection (Volume 6)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[FBMG13]	✗	✗	✓							
[HSG13]	✗	✗	✓							
[SE13]	✗	✗	✗							Crimeware-as-a-service: survey
[GB13]	✗	✗	✗							
[LWCK13]	✗	✗	✗							
[GW13]	✗	✗	✓			✓				Model-based IDS for Modbus/TCP *networks*
[BBJD13]	✗	✗	✓			✓				PLC firmware modification attacks: analysis methodology
[GS13]	✗	✗	✓							
[PCM13]	✓	✗	✗							Cost-benefit analysis of securing wastewater facilities
[YS13]	✗	✗	✓							
[AEPW13]	✗	✗	✗							
[Spo13]	✗	✗	✓							Design of robust wired *monitoring* systems
[BSP13]	✓	✓	✓			✓				Flow whitelisting in SCADA by 4 properties of net packets
[VSD+13]	✗	✗	✗							End-to-end network resilience: ontology
[NJ13]	✗	✗	✗							
[CHYLA13]	✗	✗	✓							
[MNT+13]	✗	✗	✓							

Table 18: Studies from the International Journal of Critical Infrastructure Protection (Volume 7)

Study	(I1)	(I2)	(I3)	(E1)	(E2)	(E3)	(E4)	(E5)	(E6)	Notes
[RRS14a]	✗	✗	✗							
[KPBH14]	✗	✗	✗							
[TL14]	✗	✗	✗							
[CDR14]	✗	✗	✗							Security analysis of PMUs & PDCs in SCADA/EMSs
[SBD14]	✗	✗	✓							Evaluation of modification attacks on PLCs
[SGO14]	✗	✗	✗							
[JK14]	✗	✗	✗							
[Yat14]	✗	✗	✗							
[BBDM14]	✗	✗	✓							Shodan search engine: identifying industrial control devices
[RRS14b]	✗	✗	✗							
[FW14]	✗	✗	✓							
[GBP14]	✓	✓	✓							Optimal PMUs placement vs stealthy data integrity attacks
[WBC14]	✗	✗	✓							
[NVL14]	✗	✗	✗							
[WKLC14]	✗	✗	✗							

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