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51:5 Figure 5. Block diagram of the experimental setup as implemented.

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79:6 FIGURE 9. Experimental testbed including vehicle and offloading infrastructure

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30:3 Fig. 6. Prototype Architecture

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40:42 Fig.8 TheProduct'sstructuremeta-model(corepart)

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41:8 Fig.8 Basic process of adaptive optimization and adjustment

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65:5 FIGURE 3. Architecture of the physical and cyber layer of a C2PS thing.

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98:6 Fig. 5. Contextualization of communications between layers and between components.

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133:6 FIGURE 5. Platform service of the FC-CPMTS

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133:7 FIGURE 6. Hierarchical architecture of the FC-CPMTS.

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153:4 Fig. 3. Global mode architecture

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153:4 Fig. 3. Global mode architecture

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153:6 Fig. 2. General diagram of the mode and modules defined for the CbM architecture

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153:7 Fig. 4. Local mode architectur

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154:3 Fig.4. ManagementandruntimepartsoftheIoTgateway

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154:3 Fig.4. ManagementandruntimepartsoftheIoTgateway

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156:4 Figure 4: HIL Integration with C2WT

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156:4 Figure 4: HIL Integration with C2WT

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157:6 Figure 4. The architecture of BodyCloud

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158:4 Figure 3: Proposed MAS based control architecture

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158:35 Figure 1: Interoperability architecture in cross-infrastructure holistic experiment.

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160:5 Figure 3. Architecture CPS IoT and SDN

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162:5 Fig. 4

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162:6 Fig. 5 Proposed implementation concept of PPS business model

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162:10 Fig. 11 P2P communication medium Service gateway Mobile cloud computing forming mechanism

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162:11 Fig. 12 These clouds have unique contents that will be query to join service framework by invoking i…

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163:5 FIGURE 2. f-JAM Architecture for Cyber-Physical-Social big data on MCC

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163 Job Allocation Mechanism for Battery Consumption Minimization of Cyber-Physical-Social Big Data Processing Based on Mobile Cloud Computing.pdf

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170:3 Figure 1. The LPaaS Microservice

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174:4 Figure 4: Mobile edge cloud architecture

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180:4 Fig. 3. Logical architecture view, showing AUTOSAR SW-Cs and their allocation to ECUs.

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185:4 Fig. 2: The general architecture for a smart water system used in a smart city.

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186:6 Fig. 4. Cloud-based manufacturing services collection management in SoSM

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190:2 Fig. 1. Architecture of cloud cyber-physical system

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190:3 Fig. 2. Architecture of the cloud part

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195:2 Figure 2. Overview of the proposed architecture.

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200:4 Figure 3. components are shown in dashed lines: Physical Security Monitors, API and Decision Logic....

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205:2 FIGURE 1. Overview of a framework for runtime threat detection, risk-based assessment, and automated…

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206:5 Figure 4: Quartz Time-as-a-Service. Solid boxes indi- cate components, dashed boxes indicate interfa…

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219:4 FIGURE 2. Service-oriented architecture enabled industrial cloud and edge computing systems.

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219:7 FIGURE 7. Bridging IEC 61499 management model with microservice repository

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221:7 FIGURE 5. The generic architecture of edge computing.

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223:5 Fig. 7. Basic architecture of NASCIS

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224:6 Figure 5. Use of a container to optimize emulation for legacy support

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227:5 Fig.8. ReferenceArchitectureforSmartCityPlatforms.

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228:5 Fig. 3. Architecture of software-defined IIoT in the context of Industry 4.0

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229:5 Fig. 2 Overall architecture of the proposed scenario

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229:6 Fig. 3. MEC Server software components

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233:5 Fig. 3. HORSE architecture, execution time aspect, aggregation level 3

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257:6 Figure 3. Architecture of accident management system

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260:3 Fig. 2. belongs on the cloud and velocity control probably belongs on the device itself, trajecto

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272:4 Figure 5. Context Diagram of Smart Service System-based Factory

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272:5 Figure 8. Operational Model

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272:6 Figure 9. Functional Model 1/2 (Observe)

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272:7 Figure 10. Functional Model 2/2 (Orient, Decide, Act)

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276:4 Fig. 3. Integration layers

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278:5 Fig. 4 Diagram of PMDT in smart shopfloor

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278:6 Fig. 5 CPS Real-time data acquisition Precise Optimized control Application of DTPM for CPPS

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281:9 Fig.9. The2-wayintegrationoftheInterSCityplatformandInterSCSimulator

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283:3 Fig. 2. Internet of things reference architecture [52].

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283:4 Fig. 3. Microservices reference architecture [2]

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289:4 Fig. 2. Detailed module configuration of cloud CPPS architecture

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298:6 Fig. 7. Example of virtualized and connected services from RAMI 4.0 and IIRA layers in the case of a…

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298:6 Fig. 7. Example of virtualized and connected services from RAMI 4.0 and IIRA layers in the case of a…

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301:4 Figure 6. HORSE architecture, aggregation level 1

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301:4 Figure 6. HORSE architecture, aggregation level 1

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301:5 Figure 8. HORSE architecture, execution time aspect, aggregation level 2.

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301:5 Figure 8. HORSE architecture, execution time aspect, aggregation level 2.

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301:6 Figure 9. HORSE architecture, execution time aspect, aggregation level 3

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301:176 Figure 7. HORSE architecture, design time aspect, aggregation level 2. Figure 7. HORSE architecture,…

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302:4 Figure.5 Cloud computing architecture

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261:145 FIGURE 10. Implementation of mobile BPEL.

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43:3 Fig. 1: Framework Architecture

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44:5 Fig. 3. Basic components of CPPS-Fog architecture

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44:5 Fig. 3. Basic components of CPPS-Fog architecture

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51:5 Figure 5. Block diagram of the experimental setup as implemented.

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51:5 Figure 5. Block diagram of the experimental setup as implemented.

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52:5 Figure 2. Architecture of cloud-based CPS with spare part

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52:5 Figure 2. Architecture of cloud-based CPS with spare part

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55:4 Figure 3. Proposed network architecture based on center cloud-centric and local logical mesh.

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55:4 Figure 3. Proposed network architecture based on center cloud-centric and local logical mesh.

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55:6 Figure 7. Dynamic VM migration with dynamic multi-layer architecture. configuration for autonomous d…

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60:5 Fig. 5 Platform architecture of Big Data in WM

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61:4 Figure 3: Architecture of Big-Sensor-cloud

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62:3 Figure 2 Connection flow of the proposed system

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66:3 FIGURE 1. The cloud-assisted self-organized architecture

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67:49 Fig. 2. Architecture of System

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67:49 Fig. 2. Architecture of System

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68:4 Fig. 1 Cyber-Physical Infrastructure and Cloud Communication Setup

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68:4 Fig. 1 Cyber-Physical Infrastructure and Cloud Communication Setup

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68:5 Fig. 2 Overcurrent protection one line diagram

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69:5 Fig. 5 Each software component is deployed on either local or cloud-based resources

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70:3 Fig. 1.The architecture of the CESCM.

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70:3 Fig. 1.The architecture of the CESCM.

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70:4 Fig. 3.Experimental environment: Hadoop framework based on a complete distribution.

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70:4 Fig. 3.Experimental environment: Hadoop framework based on a complete distribution.

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72:5 FIGURE 2. Implementation of cloud robotics in industrial environment.

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72:5 FIGURE 2. Implementation of cloud robotics in industrial environment.

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72:6 FIGURE 3. Architecture of RoboEarth.

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75:2 FIGURE 1. General architecture and control context.

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78:3 Fig. 2. Architecture of cloud-assisted VANET–cellular heterogeneous wireless networks.

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78:3 Fig. 2. Architecture of cloud-assisted VANET–cellular heterogeneous wireless networks.

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79:5 FIGURE 5. The data collection location for each input feature: USB-connected power meter for Amps an…

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79:6 FIGURE 9. Experimental testbed including vehicle and offloading infrastructure

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79:6 FIGURE 9. Experimental testbed including vehicle and offloading infrastructure

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91:7 Figure 10: Emergency car leading control prototype

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91:7 Figure 10: Emergency car leading control prototype

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93:5 Figure 4: Cross-Infrastructure Experiment using Hybrid cloud-based server

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97:4 Fig. 5. Software architecture - Cyber system

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97:4 Fig. 5. Software architecture - Cyber system

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97:5 Fig. 4. Hardware architecture - Physical system

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97:6 Fig. 6. Cyber-Physical Cloud Computing system

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98:8 Fig. 8. Testbed implementation of CPMC.

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98:8 Fig. 8. Testbed implementation of CPMC.

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99:3 Fig. 1. Architecture block diagram.

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105:4 FIGURE 1. The ‘vertical’ offloading pattern in CPSS/ISS.

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105:5 FIGURE 3. The ‘horizontal’ offloading pattern in CPSS/ISS.

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108:2 IGURE 1. A general M-CPS.

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109:6 Figure 5: Connected smart home communication scenario using the IoT platform

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123:7 Figure 4. OPC UA topology; adapted from OPC Foundation (2012).

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123:8 Figure 5. MTConnect topology; adapted from MTConnect (2011a).

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123:9 Figure 6. Shared Variable Engine topology; adapted from National Instruments (2012a).

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123:10 Figure 7. (2006), Bohn, Bobek, and Golatowski (2006). DPWS topology example, adapted from Chan et al…

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125:3 Fig. 4: Ball-beam System

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125:4 Fig. 5: Ball-beam CCS

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128:3 Fig. 1. General IoT-based health monitoring system.

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128:4 Fig. 2. Generic fog-based IoT architecture

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128:5 Fig. 3. Components of IoT-based health monitoring system

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128:158 Fig. 5. Node mobility in fog computing.

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132:4 Fig. 2. Middleware general architecture

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133:4 FIGURE 2. Functions of the FC-CPMTS.

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133:4 FIGURE 2. Functions of the FC-CPMTS.

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133:8 FIGURE 7. Unit level of the FC-CPMTS.

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133:8 FIGURE 7. Unit level of the FC-CPMTS.

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133:9 FIGURE 8. System level of the FC-CPMTS

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133:9 FIGURE 8. System level of the FC-CPMTS

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133:10 FIGURE 9. System of system level FC-CPMTS.

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133:10 FIGURE 9. System of system level FC-CPMTS.

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133:11 FIGURE 10. System diagram of the FC-CPMTS for the ZK5540A.

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133:11 FIGURE 10. System diagram of the FC-CPMTS for the ZK5540A.

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134:2 FIGURE 1. An illustrative example of the Fog-over-SIoT (red paths), Fog-over-IoT (blue paths), and I…

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134:3 FIGURE 2. a) Container-based virtualization at a Fog server; b) functional architecture of a virtual…

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135:4 Fig. 2. FEC architecture and interaction in the Cloud-to-Things continuum.

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135:7 Fig. 5. (a) (b) (a) OaaS using the FEC architecture. (b) FEC application services.

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135:7 Fig. 5. (a) (b) (a) OaaS using the FEC architecture. (b) FEC application services.

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136:3 Fig. 6. The architecture of the suggested cloud system

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136:3 Fig. 6. The architecture of the suggested cloud system

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136:4 Fig. 11. The architecture of CPS.

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136:4 Fig. 11. The architecture of CPS.

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142:2 Fig. 1 Five-layer architecture for health monitoring and management system

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143:2 Fig. 1. Architecture of the SelSus Cyber-Physical Production System

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147:3 FIGURE 2. The IFCIoT architectural paradigm.

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148:5 Figure 6. An IMC-AESOP System of Systems view empowered by Cloud-Based-CPS for the energy domain [14…

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148:5 Figure 6. An IMC-AESOP System of Systems view empowered by Cloud-Based-CPS for the energy domain [14…

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156:3 Figure 2: Testbed Architecture

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156:39 Figure 3: Hardware-In-The-Loop Platform

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156:39 Figure 3: Hardware-In-The-Loop Platform

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157:7 Figure 5. High-level architecture for Cloud-assisted and Agent-oriented IoT

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157:7 Figure 5. High-level architecture for Cloud-assisted and Agent-oriented IoT

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158:5 Figure 2: Integration RTS with other resources (SCADA, Simulator) via cloud server

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158:6 Figure 7: Implementation for the MAS control

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162:4 Fig. 2 Basic vehicular networking architecture

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162:7 Fig. 6 Proposed service architecture for PPS business model

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168:5 Figure 12. Simulation scenario representing an intelligent transportation system with road side mark…

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168:5 Figure 12. Simulation scenario representing an intelligent transportation system with road side mark…

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168:6 Figure 13. Incoming traffic load on the backend system as a function of the number of “islands”.

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171:2 Fig. 2. AIOLOS framework is able to run on client devices (with support for Java vm) and in the (edg…

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171:65 Fig. 1. Architectural layers of our middleware platform. AIOLOS abstracts the distributed deployment…

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172:3 Figure 1. Interaction between cloud and SG

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173:4 Figure 1. Information interaction for VWC

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174:4 Figure 4: Mobile edge cloud architecture

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174:4 Figure 4: Mobile edge cloud architecture

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178:6 Figure 3. Wireless Vehicle Ad-Hoc Network(VANET)

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178:7 Fig. 5 shows the cloud based VANET modeled by AADL.

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180:3 Fig. 2. Physical architecture view, showing ECUs and networks.

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181:3 Fig. 1. Conceptual framework for the CPMC

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181:4 Fig. 2. MTComm components – the adapter and the agent

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181:5 Fig. 11. The implemented testbed of the CPMC

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181:5 Fig. 11. The implemented testbed of the CPMC

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185:4 Fig. 2: The general architecture for a smart water system used in a smart city.

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185:5 Fig. 3: CPS for pipeline monitoring and control.

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186:4 Fig. 2. IoT enabled smart interconnection in SoSM

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186:4 Fig. 2. IoT enabled smart interconnection in SoSM

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186:6 Fig. 4. Cloud-based manufacturing services collection management in SoSM

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193:4 FIGURE 1. A Schematic Diagram of CCPS.

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195:2 Figure 2. Overview of the proposed architecture.

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195:3 Figure 3. Test scenario for multi-layer orchestration.

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196:3 Fig. 1. flow) ContriSenseCloud architecture (Arrow indicates data and information

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206:4 Figure 3: TimeCop: City-Scale Traffic Management

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211:4 Figure 2. Operating mechanism of CCPS

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211:4 Figure 2. Operating mechanism of CCPS

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216:2 FIGURE 2. Generalized communication architecture in a VCPS.

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219:4 FIGURE 2. Service-oriented architecture enabled industrial cloud and edge computing systems.

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220:4 Fig. 2 Architecture of Smart Clothing based Healthcare System

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220:7 Fig. 12 Data Visualization Approaches of Smart Clothing: (1) Smartphone based Visualization; (2) PC…

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220:7 Fig. 12 Data Visualization Approaches of Smart Clothing: (1) Smartphone based Visualization; (2) PC…

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220:132 Fig. 16 Mobile Health Cloud Platform

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220:132 Fig. 16 Mobile Health Cloud Platform

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221:3 FIGURE 1. Hierarchical architecture of smart factory.

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221:4 FIGURE 2. Dynamic electrocardiogram system.

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221:5 FIGURE 3. The SDN framework in smart factory.

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221:6 FIGURE 4. The D2D communication in smart factory.

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223:6 Fig. 8. System context of NASCIS

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229:5 Fig. 2 Overall architecture of the proposed scenario

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230:6 Figure 6. the Physical Model of Flight management System

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230:6 Figure 6. the Physical Model of Flight management System

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230:8 Figure 5. the architecture of Future Flight System

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245:153 Fig. 3. The Elastic Site Manager architecture creates, configures, and manages the execution platfor…

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251:4 Figure 3. CPS built with CPSWare.

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253:6 FIGURE 9. Communication between the cloud platform and the poaAMSs.

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258:4 Fig. 1 Hierarchical VCPS

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258:5 Fig. 2 Conceptual architecture for cloud-supported VCPS

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258:6 Fig. 3 VCMIA: VCPS and MCC integration architecture

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259:3 Fig. 1. Router Vehicular Networks for Vehicular Cyber-Physical Systems

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259:4 Fig. 5. Interactive Navigation through Vehicular Cloud

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260:3 Fig. 2. belongs on the cloud and velocity control probably belongs on the device itself, trajecto

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261:4 FIGURE 1. Overall architecture of the Vita system.

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261:4 FIGURE 1. Overall architecture of the Vita system.

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264:3 Fig. 1. Proposed architecture divided into three layers.

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271:4 FIGURE 5 Architecture overview of the CPS case study for monitoring indoor ambient parameters

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275:3 Fig. 3. FC communication system based on industrial legacy control topology

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275:3 Fig. 3. FC communication system based on industrial legacy control topology

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277:3 Fig. 2. Smart applications' data flow in the Edge-Fog-Cloud continuum.

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289:8 Fig. 6. Configuring the CPPS Edge Cluster Network

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294:7 Fig. 9. Encapsulation of the MoM messages inside VPN tunnels and on top of existing network.

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300:7 Figure 17. Implemented architectures.

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301:7 Figure 10. Overview of cloud support for the HORSE System

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301:7 Figure 10. Overview of cloud support for the HORSE System

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301:8 Figure 12.

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302:3 Figure.4 Cyber-physical cloud computing (CPCC) technology for water management system

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312:67 Figure 1. PCPS system structure.

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315:6 Fig. 5 Conceptual HC architecture

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316:5 FIGURE 8 Reference architecture for health care CPS

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328:2 Figure 4: Safety message dissemination in fog VANET.

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329:7 Figure 11. Pilot system deployment in the shipyard.

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225:7 Figure 5. Software Defined City as closed-loop system

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