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Contributions""; ""1.4 Organization of the Paper""; ""2 The UNISENSE Architecture"; ""2.1 Overview""; ""2.2 Application Profiling"; ""2.3 Node Architecture""; ""2.4 Intelligent Network Design""; ""2.5 Network Management and Visualization""; ""2.6 Deep Sensing""; ""2.7 Generalized Participatory Sensing""; ""2.8 Security, Privacy, and Trust""; ""3 Case Studies""; ""3.1 Urban Noise Monitoring" ""3.2 Public Infrastructure Monitoring (Smart Bins)""""3.3 Event Management (CuteBit)""; ""3.4 Vertical Farming Monitoring""; ""3.5 Practical Issues and Lessons Learnt""; ""4 Related Work and Competitive Advantages""; ""5 Conclusion and OngoingWork""; ""References""; ""Black-Box Optimization of Lighting Simulation in Architectural Design"": ""1 Introduction"": ""2 Application to Architectural Design""; ""3 The Radial Basis Function Method""; ""3.1 Selection of the Initial Points""; ""3.2 Selection of the Next Evaluation Point""; ""3.3 Extensions"; ""3.4 Open-Source Implementation"" ""References""""Aligning Cyber-Physical System Safety and Security""; ""1 Introduction""; ""2 Related Work""; ""2.1 CPS Safety""; ""2.2 CPS Security""; ""2.3 Safety and Security Integration""; ""3 Integrated CPS Safety and Security Lifecycle Process"; ""4 CPS Safety and Security Alignment Using Failure Attack-Countermeasure Graph""; ""5 FACT Graph Example""; ""6 Conclusions""; ""References""; ""Singapore Road Vehicle Fleet Evolution""; ""1 Introduction""; ""2 Model Structu ure and Data Source""; ""3 Building ks Block of Fleet Model""; ""3.1 New Registratio on of Motor Vehicles"" ""3.2 Survival Rate a and Lifetime Distribution""""3.3 Vehicle Kilome eters Travelled (VKT)""; ""3.4 Vehicle Fuel U Use""; ""3.5 Greenhouse as Ga (GHG) Emissions""; ""4 Model Finding gs""; ""5 Future Work""; ""6 Conclusions""; ""References""; ""Design and Management of Flexible On-Shore LNG Production Engineering Systems""; ""1 Introduction""; ""2 Background and Motivation""; ""2.1 Flexibility in Engineering Design""; ""2.2 Simulation Based Flexibility Analysis""; ""2.3 LNG Production System Design""; ""3 Scope and Pro blem Definition""; ""4 Methodology"" ""4.1 Step 1: Deterministic Analysis""

Sommario/riassunto

This book contains all refereed papers that were accepted to the first edition of the Asia-Pacific conference on « Complex Systems Design & Management » (CSD&M Asia 2014) that took place in Singapore from December 10 to December 12, 2014 (Website: http://www.2014.csdm-asia.net/). These proceedings cover the most recent trends in the emerging field of Complex Systems, both from an academic and a professional perspective. A special focus is put on Designing Smart cities. The CSD&M Asia 2014 conference is organized under the guidance of the Center of Excellence on Systems Architecture, Management, Economy and Strategy, CESAMES, non-profit organization, address: CESAMES, 8 rue de Hanovre, 75002 Paris, France (Website: http://www.cesames.net/en).