

1. Record Nr.	UNISA996198863603316
Titolo	Energy Efficient Data Centers [[electronic resource]] : Third International Workshop, E2DC 2014, Cambridge, UK, June 10, 2014, Revised Selected Papers / / edited by Sonja Klingert, Marta Chinnici, Milagros Rey Porto
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-15786-8
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XII, 167 p. 85 illus.)
Collana	Computer Communication Networks and Telecommunications ; ; 8945
Disciplina	004.0286
Soggetti	Database management Computer system failures Computer communication systems Computers and civilization Management information systems Computer science Computer simulation Database Management System Performance and Evaluation Computer Communication Networks Computers and Society Management of Computing and Information Systems Simulation and Modeling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Energy Optimization Algorithms and Models -- Agile Traffic Merging for DCNs -- 1 Introduction -- 1.1 Our Approach: Merging -- 1.2 Contributions and Paper Organization -- 2 Minimizing Energy Consumption -- 2.1 Optimization Model -- 2.2 Energy Savings Due to Traffic Merging -- 3 Greedy Flow Assignment -- 3.1 Algorithm -- 3.2 Validation of Greedy Algorithm -- 4 Simulation Results -- 4.1 Synthetic Traffic Data -- 4.2

Empirical Traffic Data -- 5 Related Work -- 6 Conclusions -- References -- Performance and Energy Efficiency of Parallel Processing in Data Center Environments -- Abstract -- 1 Introduction -- 2 Multi-processor Job Execution -- 2.1 Multi-processor Queuing Model -- 2.2 Task Graph Job Model -- 2.3 Generic Task Execution Model -- 2.4 Performance of the Principal Task Graph Elements -- 3 Task Graph Reductions -- 3.1 General Aspects and Application Cases -- 3.2 Example of a Task Graph Reduction -- 4 Performance Evaluation and Energy Efficiency -- 4.1 Performance Evaluation -- 4.2 Energy Efficiency -- 4.3 Trade-off Between the Operation Modes PP and SP -- 5 Conclusions -- References -- Cyclic Blackout Mitigation Through HVAC Shifted Queue Optimization -- Abstract -- 1 Introduction -- 2 The Proposed System -- 2.1 System Structure -- 2.2 System Operation -- 2.3 Shifted Queue Optimization -- 3 Implementation -- 3.1 Application -- 3.2 System Simulation -- 4 Results and Discussion -- 5 Conclusions -- Acknowledgement -- References -- Stochastic Petri Net Models for the Analysis of Trade-Offs in Data Centres with Power Management -- 1 Introduction -- 2 Single Server Model -- 2.1 Basic Model -- 2.2 Single Server Stochastic Petri Net Model -- 2.3 Power-Performance Trade-Off -- 2.4 Results -- 3 Multiple-Server Model -- 3.1 Stochastic Petri Net Model -- 3.2 Power-Performance Trade-Off -- 3.3 Results.

4 Computational Cost and Scalability -- 5 Related Work -- 6 Discussion and Conclusion -- References -- The Future Role of Data Centres in Europe -- GEYSER: Enabling Green Data Centres in Smart Cities -- Abstract -- 1 Introduction -- 2 GEYSER Visionary Scenarios -- 3 GEYSER System Design -- 3.1 General Architecture -- 3.2 Semantically Enhanced GEYSER Data Model -- 4 GEYSER Simulation Environment -- 4.1 Modelling -- 4.2 Simulation Methods -- 5 Conclusions -- References -- Analysis of the Influence of Application Deployment on Energy Consumption -- 1 Introduction -- 2 The ECO2Clouds Project and the Eels Application -- 2.1 ECO2Clouds -- 2.2 The Case Study -- 3 Different Deployment Configurations and Models -- 3.1 Application Deployment Configurations -- 3.2 The Models Implemented -- 4 Power Model -- 5 Validation -- 6 Deployment Configuration Analysis -- 7 Conclusions and Future Work -- References -- Minimization of Costs and Energy Consumption in a Data Center by a Workload-Based Capacity Management -- 1 Introduction -- 2 Data Center Model -- 2.1 Modeling Workloads -- 2.2 Modeling Applications -- 2.3 Modeling Servers -- 2.4 Cooling Models -- 2.5 Assessment of Data Center Efficiency, Performance, and Costs -- 3 Analysis of Workloads -- 3.1 Simulation of Diverse Workloads Using DCworms -- 3.2 Identifying Power Caps -- 4 Optimizing Capacity Using Power Capping Methods -- 4.1 Power Capping Methods -- 4.2 Simulation Experiments -- 4.3 Simulation Results -- 4.4 Application to Demand-Response Management -- 5 Conclusions -- References -- Building Application Profiles to Allow a Better Usage of the Renewable Energies in Data Centres -- 1 Introduction -- 2 Related Work -- 3 Design -- 3.1 Plug4Green -- 3.2 Energy Aware Software Controller -- 3.3 Optimization -- 4 Implementation -- 5 Conclusion -- References -- Energy Efficiency Metrics for Data Centres.

Review on Performance Metrics for Energy Efficiency in Data Center: The Role of Thermal Management -- Abstract -- 1 Introduction -- 2 A Review of Data Center Energy Efficiency Metrics -- 2.1 Thermal Metrics -- 2.2 Component Efficiency Metrics -- 2.3 Power and Energy Consumption Metrics -- 3 Relations Among Thermal, Component Efficiency and Power/Energy Metrics -- 3.1 The Effect of Thermal Performance on Data Center Energy Consumption -- 3.2 Mutual

Relation Among Thermal and Energy Consumption Metrics -- 3.3
Energy Efficiency Management Through Thermal Performance Awareness
-- 4 Conclusions -- Acknowledgments -- References -- Gain More
from PUE: Assessing Data Center Infrastructure Power Adaptability -- 1
Introduction -- 2 Related Work -- 3 Conception of IPA @ PVar -- 3.1
Power Variability -- 3.2 Infrastructure Power Adaptability -- 4
Integration in LDEE Metric -- 4.1 Load Dependent Energy Efficiency --
4.2 Proxy for Infrastructure Power Models -- 5 Evaluation -- 5.1 PUE
Scalability -- 5.2 Extremes of IT/Infrastructure Dependency -- 5.3
Realistic Data Center Operation -- 5.4 Proxy for Power Models -- 6
Conclusion -- References -- Author Index.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Energy Efficient Data Centers, E2DC 2014, held in Cambridge, UK, in June 2014. The 10 revised full papers presented were carefully selected from numerous submissions. They are organized in three topical sections named: energy optimization algorithms and models, the future role of data centres in Europe and energy efficiency metrics for data centres.

2. Record Nr.	UNINA9910783578403321
Autore	Benacchio Gian Antonio
Titolo	A common law for Europe [[electronic resource] /] / by Gian Antonio Benacchio and Barbara Pasa ; translated by Lesley Orme
Pubbl/distr/stampa	Budapest ; ; New York, : Central European University Press, 2005
ISBN	978-6-15505-380-1 978-615-5053-80-1 9786155053801 615-5053-80-4 1-282-28621-8 9786612286216 1-4237-4219-2
Descrizione fisica	1 online resource (323 p.)
Collana	A guide to European private law
Altri autori (Persone)	PasaBarbara
Disciplina	341.242/2
Soggetti	Law - Europe - International unification Law - European Union countries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico**Monografia****Note generali****Bibliographic Level Mode of Issuance: Monograph****Nota di bibliografia**

Includes bibliographical references and index.

Nota di contenuto

Private law of the European Community : the process of harmonization, uniformization, and unification -- The diffusion of legal rules and models and the transposition of concepts -- Harmonization as an instrument for the 'reinforced pre-accession strategy' -- Institutions and sources of community law -- The adaptation of national laws to community law -- A Common law for Europe?

Sommario/riassunto

An essential guide for lawmakers, scholars, and students of law, this work takes on the formidable task of providing a detailed overview of the harmonization of law in the European Union. Skillfully researched, the authors seek to approach this topic with an eye to the recent enlargement process. In highlighting the most recent actions of the European Court of Justice and the Court of First Instance, the book seeks to analyze the future strengths and pitfalls of EU Common Law. Court rulings are "ed at length, and work in conjunction with text inserts in providing a format that breaks down complex information. This open style of the book gives researchers the ability to quickly locate useful information and cite statements from EU institutions. In outlining the sources and institutions of Community Law, and the challenges in harmonizing national and supra-national law-books, 'A Common Law for Europe' has done a tremendous service for academics and future leaders of the European Union.