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Titolo	Bioconversion Processes / / edited by Christian Kennes
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2018
ISBN	3-03842-946-5
Descrizione fisica	1 online resource (156 pages)
Disciplina	628.445
Soggetti	Refuse and refuse disposal - Biodegradation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Compared to conventional chemical technologies and other similar industrial processes, bioprocesses represent a more sustainable and environmentally-friendly alternative for the production of fuels and platform chemicals. In biorefineries, different kinds of feedstocks, such as biomass or lignocellulosic materials in general, can be used and fermented by microorganisms (e.g., bacteria, fungi, algae), after some pretreatment steps, to produce high added-value metabolites. More recently, wastes, wastewaters and also waste gases have been shown to be suitable for resource recovery or for their bioconversion to (bio)fuels (e.g., ethanol, butanol, hexanol, biodiesel, biohydrogen, biogas) or other commercial products (e.g., biopolymers). In this sense, much effort has also been made to bioconvert greenhouse gases, such as CO₂, into useful products. The goal of this Special Issue is to publish both recent innovative research data, as well as review papers on the fermentation of different types of substrates to commercial (bio)fuels and (bio)products, mainly focusing on the bioconversion of pollutants in solid, liquid, or gas phases (wastes, wastewaters, waste gases).</p>

2. Record Nr.

Titolo

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Model Checking Software : 15th International SPIN Workshop, Los Angeles, CA, USA, August 10-12, 2008, Proceedings / / edited by Klaus Havelund, Rupak Majumdar, Jens Palsberg

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Descrizione fisica

1 online resource (X, 343 p.)

Collana

Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5156

Disciplina

004

Soggetti

Software engineering
Compilers (Computer programs)
Computer programming
Computer science
Software Engineering
Compilers and Interpreters
Programming Techniques
Computer Science Logic and Foundations of Programming

Lingua di pubblicazione

Inglese

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Note generali

Bibliographic Level Mode of Issuance: Monograph

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Invited Contributions -- Residual Checking of Safety Properties -- The Case for Context-Bounded Verification of Concurrent Programs -- Combining Static and Dynamic Reasoning for the Discovery of Program Properties -- Using Dynamic Symbolic Execution to Improve Deductive Verification -- Regular Papers -- Automated Evaluation of Secure Route Discovery in MANET Protocols -- Model Checking Abstract Components within Concrete Software Environments -- Generating Compact MTBDD-Representations from Probmela Specifications -- Dynamic Delayed Duplicate Detection for External Memory Model Checking -- State Focusing: Lazy Abstraction for the Mu-Calculus -- Efficient Modeling of Concurrent Systems in BMC -- Tackling Large Verification Problems with the Swarm Tool -- Formal Verification of a Flash Memory Device Driver – An Experience Report -- Layered Duplicate Detection in External-Memory Model Checking -- Dependency Analysis for Control

Flow Cycles in Reactive Communicating Processes -- Improved On-the-Fly Equivalence Checking Using Boolean Equation Systems -- Resource-Aware Verification Using Randomized Exploration of Large State Spaces -- Incremental Hashing for Spin -- Verifying Compiler Based Refinement of Bluespec TM Specifications Using the SPIN Model Checker -- Symbolic Context-Bounded Analysis of Multithreaded Java Programs -- Efficient Stateful Dynamic Partial Order Reduction -- Symbolic String Verification: An Automata-Based Approach -- Verifying Multi-threaded C Programs with SPIN.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International SPIN workshop on Model Checking Software, SPIN 2008, held in Los Angeles, CA, USA, in August 2008. The 17 revised full papers presented together with 1 tool paper and 4 invited talks were carefully reviewed and selected from 41 submissions. The main focus of the workshop series is software systems, including models and programs. The papers cover theoretical and algorithmic foundations as well as tools for software model checking and foster interactions and exchanges of ideas with related areas in software engineering, such as static analysis, dynamic analysis, and testing.
