Publications

H.C.M. (Jetty) Kleijn

Journals

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Classifying invariant structures of step traces.
Journal of Computer and System Sciences
Available online 17 May 2017. In Press

Ryszard Janicki, Jetty Kleijn, ŁukaszMikulski:
A Precise Characterisation of Step Traces and Their Concurrent Histories.
Scientific Annals of Computer Science 28: 237-267 (2018)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Adding A/Sync Places to the Synthesis Procedure for Whole-Place Operations Nets with Localities.
Sci. Ann. Comp. Sci. 27(2): 177-212 (2017)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Alphabets of Acyclic Invariant Structures.
Fundam. Inform. 154(1-4): 207-224 (2017)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Invariant Structures and Dependence Relations.
Fundam. Inform. 155(1-2): 1-29 (2017)

Andrzej Ehrenfeucht, Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Evolving Reaction Systems.
Theor. Comput. Sci. 682: 79-99 (2017)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Signal set tissue systems and overlapping localities.
Theor. Comput. Sci. 701: 132-145 (2017)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny, Grzegorz Rozenberg:
Applying Regions.
Theoretical Computer Science 658: 205-215 (2017)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Step Traces.
Acta Informatica 53(1): 35-65 (2016)

Laura M.F. Bertens, Jetty Kleijn, Sander Hille, Monika Heiner, Maciej Koutny, Fons J. Verbeek:
Modeling Biological Gradient Formation: Combining Partial Differential Equations and Petri Nets.
Natural Computing 154): 665-675 (2016)

Rafael V. Carvalho, Jeroen van den Heuvel, Jetty Kleijn, Fons J. Verbeek:
Coupling of Petri Net Models of the Mycobacterial Infection Process and Innate Immune Response.
Computation 3(2): 150-176 (2015)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Characterising Concurrent Histories.
Fundamenta Informaticae 139(1): 21-42 (2015)

Maurice H. ter Beek, Jetty Kleijn:
On Distributed Cooperation and Synchronised Collaboration.
Journal of Automata, Languages and Combinatorics 19(1-4): 17-32 (2014)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Tissue Systems and Petri Net Synthesis.
In: Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) IX
Volume 8910 of Lecture Notes in Computer Science pp 124-146 (2014)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny, Grzegorz Rozenberg:
Step Semantics of Boolean Nets.
Acta Informatica 50: 15-39 (2013)

Jetty Kleijn, Maciej Koutny.
Mutex Causality in Processes and Traces of General Elementary Nets.
Fundamenta Informaticae 122: 119-146 (2013)

Josep Carmona, Jetty Kleijn:
Compatibility in a Multi-component Environment.
Theoretical Computer Science 484: 1-15 (2013)

Maurice H. ter Beek, Jetty Kleijn:
Vector Team Automata.
Theoretical Computer Science 429: 21-29 (2012)

Rafael V. Carvalho, Jetty Kleijn, Annemarie H. Meijer, Fons J. Verbeek:
Modeling Innate Immune Response to Early Mycobacterium Infection.
Computational and Mathematical Methods in Medicine 2012: 790482:1-790482:12 (2012)

Jetty Kleijn, Maciej Koutny:
Localities in Systems with a/sync Communication.
Theoretical Computer Science 429: 185-192 (2012)

Jetty Kleijn, Maciej Koutny:
Step Coverability Algorithms for Communicating Systems.
Science of Computer Programming 77: 955-967 (2012)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Regions of Petri Nets with a/sync Connections.
Theoretical Computer Science 454: 189-198 (2012)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Petri Nets for Biologically Motivated Computing.
Scientific Annals of Computer Science 21(2): 199-225 (2011)

Jetty Kleijn, Maciej Koutny:
Membrane Systems with Qualitative Evolution Rules.
Fundamenta Informaticae 110(1-4): 217-230 (2011)

Sander van der Vlugt, Jetty Kleijn, Maciej Koutny:
Coverability and Inhibitor Arcs: An Example,
Petri Net Newsletter 79: 7-12 (2011)

Maurice H. ter Beek, Jetty Kleijn:
Associativity of Infinite Synchronized Shuffles and Team Automata.
Fundamenta Informaticae 91(3-4): 437-461 (2009)

Jetty Kleijn, Maciej Koutny:
A Petri Net Model for Membrane Systems with Dynamic Structure.
Natural Computing 8(4): 781-796 (2009)

Jetty Kleijn, Maciej Koutny:
Processes of Membrane Systems with Promoters and Inhibitors.
Theoretical Computer Science 404(1-2): 112-126 (2008)

Maurice H. ter Beek, Jetty Kleijn:
Infinite Unfair Shuffles and Associativity.
Theoretical Computer Science 380(3): 401-410 (2007)

Tom Chothia, Jetty Kleijn:
Q-Automata: Modelling the Resource Usage of Concurrent Components.
Electronic Notes in Theoretical Computer Science 175(2): 153-167 (2007)

Jetty Kleijn, Maciej Koutny:
Processes of Petri Nets with Range Testing.
Fundamenta Informaticae 80(1-3): 199-219 (2007)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Process Semantics for Membrane Systems.
Journal of Automata, Languages and Combinatorics 11(3): 321-340 (2006)

Maurice H. ter Beek, Jetty Kleijn:
Modularity for Teams of I/O Automata.
Information Processing Letters 95(5): 487-495 (2005)

H.C.M. Kleijn, M. Koutny:
Process Semantics of General Inhibitor Nets.
Information and Computation 190(1): 18-69 (2004)

Maurice H. ter Beek, Clarence A. Ellis, Jetty Kleijn, Grzegorz Rozenberg:
Synchronizations in Team Automata for Groupware Systems.
Computer Supported Cooperative Work 12(1): 21-69 (2003)

H.C.M. Kleijn, R. Morin, B. Rozoy:
Event Structures for Local Traces.
Electronic Notes in Theoretical Computer Science 16(2): 98-113 (1998)

N.W. Keesmaat, H.C.M. Kleijn:
Restrictions and Representations of Vector Controlled Concurrent System Behaviours.
Theoretical Computer Science 179(1-2): 61-102 (1997)

N.W. Keesmaat, H.C.M. Kleijn:
Net-Based Control Versus Rational Control - The Relation Between ITNC Vector Languages
and Rational Relations.
Acta Inf. 34(1): 23-57 (1997)

P.W. Hoogers, H.C.M. Kleijn, P.S. Thiagarajan:
An Event Structure Semantics for General Petri Nets.
Theoretical Computer Science 153(1&2): 129-170 (1996)

P.W. Hoogers, H.C.M. Kleijn, P.S. Thiagarajan:
A Trace Semantics for Petri Nets.
Information and Computation 117(1): 98-114 (1995)

T. Harju, N.W. Keesmaat, H.C.M. Kleijn:
The Intersection Problem for Alphabetic Vector Monoids.
RAIRO Informatique Théorique 28(3-4): 295-301 (1994)

T. Harju, H.C.M. Kleijn, M. Latteux, A. Terlutte:
Representation of Rational Functions with Prefix and Suffix Codings.
Theoretical Computer Science 134(2): 403-413 (1994)

T. Harju, H.C.M. Kleijn:
Morphisms and rational tranducers.
Bulletin of the EATCS 51: 168-180 (1993)

T. Harju, H.C.M. Kleijn, M. Latteux:
Deterministic Sequential Functions.
Acta Informatica 29(6/7): 545-554 (1992)

T. Harju, H.C.M. Kleijn, Michel Latteux:
Compositional Representation of Rational Functions.
RAIRO Informatique Théorique 26: 243-256 (1992)

T. Harju, H.C.M. Kleijn:
Decidability Problems for Unary Output Sequential Transducers.
Discrete Applied Mathematics 32(2): 131-140 (1991)

N.W. Keesmaat, H.C.M. Kleijn, G. Rozenberg:
Vector Controlled Concurrent Systems, Part II: Comparisons.
Fundamenta Informaticae 14(1): 1-38 (1991)

N.W. Keesmaat, H.C.M. Kleijn, G. Rozenberg:
Vector Controlled Concurrent Systems; Part I: Basic Classes,
Fundamenta Informaticae 13: 275-316 (1990)

T. Harju, H.C.M. Kleijn:
Cardinality Problems of Composition of Morphisms and Inverse Morphisms.
Mathematical Systems Theory 22(3): 151-159 (1989)

S. Horvath, J. Karhumäki, J. Kleijn:
Results Concerning Palindromicity.
Elektronische Informationsverarbeitung und Kybernetik 23(8/9): 441-451 (1987)

T. Harju, J. Karhumäki, H.C.M. Kleijn:
On Morphic Generation of Regular Languages,
Discrete Aplied Mathematics 15: 55-60 (1986)

A. Ehrenfeucht, H.C.M. Kleijn, G. Rozenberg:
Adding Global Forbidding Context to Context-Free Grammars.
Theoretical Computer Science 37: 337-360 (1985)

H.C.M. Kleijn, M. Penttonen, G. Rozenberg, K. Salomaa:
Direction Independent Context-Sensitive Grammars.
Information and Control 63(1/2): 113-117 (1984)

J. Karhumäki, H.C.M. Kleijn:
On the Equivalence of Compositions of Morphisms and Inverse Morphisms on Regular
Languages.
RAIRO Informatique Théorique19(3): 203-211 (1985)

H.C.M. Kleijn, G. Rozenberg:
On the Generative Power of Regular Pattern Grammars.
Acta Informaticae 20: 391-411 (1983)

J. Gonczarowski, H.C.M. Kleijn, G. Rozenberg:
Grammatical Constructions in Selective Substitution Grammars.
Acta Cybernetica 6(3): 239-269 (1983)

J. Gonczarowski, H.C.M. Kleijn, G. Rozenberg:
Closure Properties of Selective Substitution Grammars, Part 2.
International Journal of Computer Mathematics 14: 109-135 (1983)

J. Gonczarowski, H.C.M. Kleijn, G. Rozenberg:
Closure Properties of Selective Substitution Grammars, Part 1.
International Journal of Computer Mathematics 14: 19-42 (1983)

H.J.M. Goeman, L.P.J. Groenewegen, H.C.M. Kleijn, G. Rozenberg:
Constrained Petri Nets, Part II: Generalizations and Extensions.
Fundamenta Informaticae VI.3-4: 333-374 (1983)

H.J.M. Goeman, L.P.J. Groenewegen, H.C.M. Kleijn, G. Rozenberg:
Constrained Petri nets.
Fundamenta Informaticae VI.1: 81-125 (1983)

H.C.M. Kleijn, G. Rozenberg:
Multi grammars.
International Journal of Computer Mathematics 12: 177-201 (1983)

H.C.M. Kleijn, Grzegorz Rozenberg, R. Verraedt:
On the role of blocking in rewriting systems.
Acta Cybernetica 5(4): 389-408 (1982)

H.C.M. Kleijn, G. Rozenberg:
Sequential, Continuous and Parallel Grammars.
Information and Control 48(3): 221-260 (1981)
[Corrigendum. Information and Control 52(3): 364 (1982)]

H.C.M. Kleijn, G. Rozenberg:
Context-Free Like Restrictions on Selective Rewriting.
Theoretical Computer Science 16: 237-269 (1981)

H.C.M. Kleijn, G. Rozenberg:
A Study in Parallel Rewriting Systems.
Information and Control 44(2): 134-163 (1980)

Regular and invited contributions in conference and workshop proceedings

Pieter Kwantes, Jetty Kleijn:
On the Synthesis of Industry Level Process Models from Enterprise Level Process Models.
Algorithms & Theories for the Analysis of Event Data 2018 (ATAED).
CEUR Workshop Proceedings v.2115 pp 6-22 (2018)

Jetty Kleijn:
Evolving Reaction Systems (Abstract) [invited]
1st International Workshop on Reaction Systems, Milan, Italy, 2018

Jetty Kleijn:
Structure of Behaviour in Extended EN Systems (Abstract) [invited]
Workshop on Structure Theory of Petri Nets 2017 (STRUCTURE),
Proceedings, Zaragoza, Spain pp 33 (2017)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
On Synthesising Step Alphabets for Acyclic Invariant Structures.
Algorithms & Theory for the Analysis of Event Data 2017 (ATAED).
CEUR Workshop Proceedings, v.1847 pp 76-88 (2017)

Maurice H. ter Beek, Josep Carmona, Rolf Hennicker, Jetty Kleijn:
Communication Requirements for Team Automata.
Coordination Models and Languages - 19th IFIP WG 6.1 International Conference
(COORDINATION 2017)
Volume 10319 of Lecture Notes in Computer Science pp 256-277 (2017)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Synthesis of Petri Nets with Whole-Place Operations and Localities.
International Colloquium on Theoretical Aspects of Computing 2016 (ICTAC)
Volume 9965 of Lecture Notes in Computer Science pp 103-120 (2016)

Maurice H. ter Beek, Josep Carmona, Jetty Kleijn:
Conditions for Compatibility of Components - The Case of Masters and Slaves.
International Symposium on Leveraging Applications of Formal Methods, Verification and
Validation: Foundational Techniques (ISoLA, Part I)
Volume 9952 of Lecture Notes in Computer Science pp 784-805 (2016)

Jetty Kleijn:
On Processes and Paradigms [invited].
International Conference on Application and Theory of Petri Nets and Concurrency 2016
Volume 9698 of Lecture Notes in Computer Science 2pp (2016)

Pieter M. Kwantes, Pieter Van Gorp, Jetty Kleijn, Arend Rensink:
Towards Compliance Verification Between Global and Local Process Models.
International Conference on Graph Transformation (ICGT 2015)
Volume 9151 of Lecture Notes in Computer Science pp 221-236 (2015)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Order Structures for Subclasses of Generalised Traces.
Language and Automata Theory and Applications (LATA 2015)
Volume 8977 of Lecture Notes in Computer Science pp 689-700 (2015)

Jetty Kleijn:
Concurrency, Histories and Nets [invited].
International conference on Machines, Computations and Universality 2015
Volume 9288 of Lecture Notes in Computer Science pp XII-XIV (2015)

Rafael V. Carvalho, Jetty Kleijn, Fons J.Verbeek:
A Multi-scale Extensive Petri Net Model of the Bacterial-macrophage Interaction.
International Workshop on Biological Processes & Petri Nets (BioPPN 2014)
CEUR Workshop Proceedings v.1159 pp 15-29 (2014)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Synthesis of Tissue Systems.
Proceedings Third Workshop on Application of Region Theory (ART) pp 1-16 (2013)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski:
Causal Structures for General Concurrent Behaviours.
International Workshop on Concurrency, Specification and Programming (CS&P 2013)
CEUR Workshop Proceedings v.1032 pp 193-205 (2013)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny, Grzegorz Rozenberg:
Membrane Systems and Petri Net Synthesis.
Workshop Membrane Computing and Biologically Inspired Process Calculi (MeCBIC 2012)
Electronic Proceedings in Theoretical Computer Science, v. 100 pp 1-13 (2012)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny, Grzegorz Rozenberg:
Petri Net Synthesis and Membrane Systems.
Pre-Proceedings 6th Workshop on Membrane Computing and Biologically Inspired Process
Calculi (MeCBIC 2012) pp 7-8 (2012)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Petri Nets and Bio-Modelling - and how to benefit from their synergy [invited].
Workshop on Membrane Computing and Biologically Inspired Process Calculi 2011
Proceedings 2 pp (2011) http://arxiv.org/abs/1108.3422

Laura M.F. Bertens, Jetty Kleijn, Maciej Koutny, Fons J. Verbeek:
Modelling Gradients using Petri Nets.
Recent Advances in Petri Nets and Concurrency (RAPNeC-2010)
CEUR Workshops Proceedings v.827 pp 39-53 (2012)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny, Grzegorz Rozenberg:
Classifying Boolean Nets for Region-based Synthesis.
Workshop on Applications of Region Theory (ART 2011)
CEUR Workshops Proceedings v.725 pp 5-21 (2011)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Modelling Reaction Systems with Petri Nets.
International Workshop on Biological Processes & Petri Nets (BioPPN)
CEUR Workshops Proceedings v.724 pp 36-52 (2011)

Jetty Kleijn, Maciej Koutny:
The Mutex Paradigm of Concurrency.
Int. Conf. Applications and Theory of Petri Nets (PETRI NETS 2011)
Volume 6709 of Lecture Notes in Computer Science pp 228-247 (2011)

Jetty Kleijn, Maciej Koutny:
Applying Step Coverability Trees to Communicating Component-Based Systems.
Post-proceedings Fundamentals of Software Engineering (FSEN 2009)
Volume 5961 of Lecture Notes in Computer Science pp 178-193 (2010)

Jetty Kleijn, Maciej Koutny:
Petri Nets with Localities and Testing. Petri Nets 2010: 19-38
Int. Conf. Applications and Theory of Petri Nets (PETRI NETS 2010)
Volume 6128 of Lecture Notes in Computer Science pp 19-38 (2010)

H.C.M. Kleijn, M. Koutny:
Infinite Process Semantics of Inhibitor Nets.
Int. Conf. Applications and Theory of Petri Nets and Other Models of Concurrency
Volume 4024 of Lecture Notes in Computer Science pp 282-301 (2006)

Jetty Kleijn and Maciej Koutny:
Synchrony and Asynchrony in Membrane Systems.
Membrane Computing, 7th International Workshop (WMC 2006)
Volume 4361 of Lecture Notes in Computer Science pp 66-85 (2006)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Towards a Petri net Semantics for Membrane Systems.
Preproceedings International Workshop Membrane Computing (WMC 2005)

Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg
Towards a Petri net Semantics for Membrane Systems.
Membrane Computing, 6th International Workshop (WMC 2005)
Volume 3850 of Lecture Notes in Computer Science pp 292-309 (2005)

Maurice H. ter Beek, Jetty Kleijn:
Infinite Unfair Shuffles and Associativity.
Proceedings of the 5th International Conference on Words (WORDS'05)
Publications du Laboratoire de Combinatoire et d'Informatique Mathématique, v. 36
Université du Québec, Montréal pp 129-146 (2005)

Josep Carmona, Jetty Kleijn:
Interactive Behaviour of Multi-Component Systems.
Proceedings Workshop on Token Based Computing (ToBaCo 2004) pp 27-31 (2004)

Maurice H. ter Beek, Jetty Kleijn:
Team Automata Satisfying Compositionality.
Formal Methods (FME 2003)
Volume 2805 of Lecture Notes in Computer Science pp 381-400 (2003)

Jetty Kleijn:
Team Automata for CSCW - A Survey.
Petri Net Technology for Communication-Based Systems
Volume 2472 of Lecture Notes in Computer Science pp 295-320 (2003)

H.C.M. Kleijn, Maciej Koutny:
Causality Semantics of Petri Nets with Weighted Inhibitor Arcs.
International Conference on Concurrency Theory (CONCUR 2002)
Volume 2421 of Lecture Notes in Computer Science pp 531-546 (2002)

Maurice H. ter Beek, Clarence A. Ellis, Jetty Kleijn, Grzegorz Rozenberg:
Team Automata for Spatial Access Control.
European Conference on Computer-Supported Cooperative Work (ECSCW 2001)
Kluwer Academic Publishers, Dordrecht, pp 59-78 (2001)

H.C.M. Kleijn, M. Koutny:
Process Semantics of P/T-Nets with Inhibitor Arcs.
21st Int. Conf. Applications and Theory of Petri Nets (ICATPN 2000)
Volume 1825 of Lecture Notes in Computer Science pp 261-281 (2002)

H.C.M. Kleijn, R. Morin, B. Rozoy:
A General Categorical Connection between Local Event Structures and Local Traces.
12th Int. Symp. on Fundamentals of Computation Theory (FCT 1999)
Volume 1684 of Lecture Notes in Computer Science pp 338-349 (1999)

T. Harju, H.J. Hoogeboom, H.C.M. Kleijn:
Identities and Transductions.
Colloquium Results and Trends in Theoretical Computer Science
Volume 812 of Lecture Notes in Computer Science pp 140-144 (1994)

P.W. Hoogers, H.C.M. Kleijn, P. S. Thiagarajan:
Local Event Structures and Petri Nets.
International Conference on Concurrency Theory (CONCUR 1993)
Volume 715 of Lecture Notes in Computer Science pp 462-476 (1993)

P.W. Hoogers, H.C.M. Kleijn, P. S. Thiagarajan:
A Trace Semantics for Petri Nets (Extended Abstract).
International Colloquium on Automata, Languages and Programming (ICALP 1992)
Volume 623 of Lecture Notes in Computer Science pp 595-604 (1992)

N.W. Keesmaat, H.C.M. Kleijn:
The Effect of Vector Synchronization: Residue and Loss.
Advances in Petri Nets: The DEMON Project
Volume 609 of Lecture Notes in Computer Science pp 215-250 (1992)

H.C.M. Kleijn:
Basic Ideas of Selective Substitution Grammars [invited]
Trends, Techniques, and Problems in Theoretical Computer Science -
4th International Meeting of Young Computer Scientists (IMYCS 1986)
Volume 281 of Lecture Notes in Computer Science pp 75-95 (1987)

H.C.M. Kleijn, Grzegorz Rozenberg:
A General Framework for Comparing Sequential and Parallel Rewriting.
Mathematical Foundations of Computer Science (MFCS 1981
Volume 118 of Lecture Notes in Computer Science pp 360-368 (1981)

H.C.M. Kleijn, Grzegorz Rozenberg:
On the Role of Selectors in Selective Substitution Grammars.
Int. Conf. on Fundamentals of Computation Theory (FCT 1981)
Volume 117 of Lecture Notes in Computer Science pp 190-198 (1981)

Book chapters

Jetty Kleijn, Maciej Koutny, Łukasz Mikulski, Grzegorz Rozenberg:
Reaction Systems, Transition Systems, and Equivalences.
In: Adventures Between Lower Bounds and Higher Altitudes (H.-J. Böckenhauer, D. Komm,
W. Unger, eds.)
Volume 11011 of Lecture Notes in Computer Science, pp 63-84 (2018)

Jetty Kleijn, Maciej Koutny, Marta Pietkiewicz-Koutny:
Regions of Affine Nets.
In: This Asynchronous World (A.Mokhov, ed.)
Newcastle University pp 182-191 (2016)

Jetty Kleijn, Maciej Koutny:
Set Tissue Systems with Instant Signalling.
In: Multidisciplinary Creativity (M. Gheorghe. I.Petre, M.J.Perez-Jimenez, G.Rozenberg,
A.Salomaa, eds.)
Spandugino pp 105-117 (2015)

M.H. ter Beek, J. Kleijn:
Shuffles and Synchronised Shuffles: A Survey.
In: Discrete Mathematics and Computer Science (G.Paun, G.Rozenberg, A.Salomaa eds.),
Publishing House of the Romanian Academy, Bucharest pp 37-50 (2014) appeared: Jan 2015

Jetty Kleijn, Maciej Koutny.
Causality in Extensions of Petri Nets.
In: Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) VII
(K. Jensen, W.M.P. van der Aalst, G. Balbo, M. Koutny, K. Wolf, eds.)
Volume 7480 of Lecture Notes in Computer Science pp 225-254 (2013)

Andrzej Ehrenfeucht, Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg.
Reaction Systems: A Natural Computing Approach to the Functioning of Living Cells.
In: A Computable Universe, Understanding and Exploring Nature as Computation (H. Zenil,
ed.), World Scientific pp 207-226 (2012)

Andrzej Ehrenfeucht, Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Qualitative and Quantitative Aspects of a Model for Processes Inspired by the Functioning of the Living Cell.
In: Biomolecular Information Processing, From Logic Systems to Smart Sensors and Actuators (E. Katz, ed.) Wiley-VCH, Weinheim pp 303-322 (2012)

Andrzej Ehrenfeucht, Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Minimal reaction systems.
In: Transactions on Computational Systems Biology XIV, Special Issue on Computational Models for Cell Processes (C. Priami, I. Petre, E. de Vink, eds.)
Volume 7625 of Lecture Notes in Computer Science, pp 102-122 (2012)

Andrzej Ehrenfeucht, Jetty Kleijn, Maciej Koutny, Grzegorz Rozenberg:
Relevance of Entities in Reaction Systems.
In: Languages Alive (H. Bordihn, M. Kutrib, B. Truthe, eds.)
Volume 7300 of Lecture Notes in Computer Science, pp 44-55 (2012)

Jetty Kleijn, Maciej Koutny:
Causality in Structured Occurrence Nets.
In: Dependable and Historic Computing (C.B.Jones, J.L.Lloyd eds.)
Volume 6875 of Lecture Notes in Computer Science pp 283-297 (2011)

Ryszard Janicki, Jetty Kleijn, Maciej Koutny:
Quotient Monoids and Concurrent Behaviours.
In: Scientific Applications of Language Methods (C.Martin-Vide C. ed.)
World Scientific. 313-386 (2010)

Jetty Kleijn, Maciej Koutny:
Petri Nets and Membrane Computing (Chapter 15).
In: The Oxford Handbook of Membrane Computing (G.Paun, G.Rozenberg, A.Salomaa eds.)
Oxford University Press. pp 389-412 (2010)

Jetty Kleijn, Maciej Koutny:
Formal Languages and Concurrent Behaviours.
In: New Developments in Formal Languages and Applications (G. Bel-Enguix, M.D. Jimenez-Lopez, C. Martin-Vide eds.)
Studies in Computational Intelligence v.113 Springer pp 125-182 (2008)

Maurice H. ter Beek, H.C.M. Kleijn:
Petri Net Control for Grammar Systems.
In: Formal and Natural Computing (W. Brauer, H. Ehrig, J. Karhumäki, A. Salomaa eds.)
Volume 2300 of Lecture Notes in Computer Science pp 220-243 (2002)

Edited volumes and special issues

B. Aman, J. Kleijn, M. Koutny, D. Lucanu (eds.).
Methods for Distributed and Concurrent Systems: Special Issue on the occasion of the 60th Birthday of Professor Gabriel Ciobanu.
Fundamenta Informaticae 153(1-2): Preface v-vi (2017)

S. Azimi, H.J. Hoogeboom, J. Kleijn, M. van der Nat, I. Petre,, A. Salomaa (Eds.),
A Magician in Science. Liber Amicorum Grzegorz Rozenberg.
TUCS General Publication, Turku, Finland, 2017.
Presented at: Symposium Magic in Science, Turku, Finland, June 17, 2017

M. Koutny, J. Kleijn, W. Penczek (eds.).
Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) XII.
Volume 10470 of Lecture Notes in Computer Science (2017)

M. Koutny, J. Desel, J. Kleijn (eds.).
Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) XI.
Volume 9930 of Lecture Notes in Computer Science (2016)

J.M. Colom, J. Desel, J. Kleijn (eds.).
Application and Theory of Petri Nets and Concurrency.
PETRI NETS 2013 Selected, revised and extended papers
Fundamenta Informaticae 137(1) (2015)

S. Haddad, J. Kleijn, L. Pomello (eds.).
Application and Theory of Petri Nets and Concurrency.
PETRI NETS 2012. Selected, revised and extended papers
Fundamenta Informaticae 131(1) (2014)

K. Jensen, W.M.P. van der Aalst, M. Ajmone Marsan, G. Franceschinis, J. Kleijn, L.M.
Kristensen (eds.).
Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) VI.
Volume 7400 of Lecture Notes in Computer Science (2012)

S. Donatelli, J. Kleijn, R.J. Machado, J.M. Fernandes (eds.).
Recent Advances in Petri Nets and Concurrency (RAPNeC-2010)
CEUR Workshop Proceedings v.827 (2012)

K. Jensen, S. Donatelli, J. Kleijn (eds.).
Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) V.
Volume 6900 of Lecture Notes in Computer Science (2012)

J. Kleijn, M. Koutny (eds.).
Concurrency metHods: Issues aNd Applications (CHINA 2008).
Proceedings of a workshop at the 29th International Conference on
Application and Theory of Petri Nets and Other Models of Concurrency (2008)

J. Kleijn, A. Yakovlev (eds.).
Fundamenta Informaticae 88(3) (2008)
PETRI NETS 2007

J. Kleijn, A. Yakovlev (eds.)
Proceedings 28th Int. Conf. on Application and Theory of Petri Nets and Other Models of
Concurrency 2007.
Volume 4546 of Lecture Notes in Computer Science (2007)

S. Donatelli, J. Kleijn (eds.).
Proceedings 20th Int. Conf. Application and Theory of Petri Nets 1999.
Volume 1639 of Lecture Notes in Computer Science (1999)

Ph.D. thesis

H.C.M. Kleijn:
Selective Substitution Grammars Based on Context-free Productions
Leiden University, 1983. Supervisor: G. Rozenberg
External examiners: H. Maurer (T.U. Graz, Austria), A. Salomaa (U.Turku, Finland)

Miscellaneous

Jetty Kleijn, Paul Smit:
Partially Ordering Koutny's Traces.
In: Harnessed Causality, Essays dedicated to Maciej Koutny on the occasion of his 60th
birthday (V. Khomenko, ed, A. Rafiev, artwork), pp 94-101, Newcastle University (2018)

Informatica Onderzoeksgroep Theorie, LF almanak, pp 144-145 (2017)

Maurice H. ter Beek, Josep Carmona, Jetty Kleijn:
Communication and Compatibility in Systems of Systems: Correctness-by-Construction.
ERCIM News 102 pp 21/22 (2015)

Laura M.F. Bertens, Jetty Kleijn, Fons J. Verbeek:
Biomodelling and Petri Nets.
Eureka 35 pp 6-8 (2012)

Jetty Kleijn:
Petri Nets at Leiden University.
Petri Net Newsletter 80 11-14 (2012)

T. Harju, H.C.M. Kleijn:
Morphisms and Rational Transducers.
Bulletin EATCS 51 pp 168-180 (1993)

H.C.M. Kleijn, G. Rozenberg:
Toevoeging van een Globale Context-restrictie aan Context-vrije Grammatica's,
Proceedings NGI/SION Symposium 1984 "State of the Art" pp 209-213 (1984)

Technical Reports

R. Janicki, J. Kleijn, M. Koutny, Ł. Mikulski:
Relating Step Alphabets and Invariant Structures.
School of Computing Science, University of Newcastle upon Tyne, UK
Technical Report CS-TR No 1489 (2015)

R. Janicki, J. Kleijn, M. Koutny, Ł. Mikulski:
Generalising Traces.
School of Computing Science, University of Newcastle upon Tyne, UK
Technical Report CS-TR No 1436 (2014)

R. Janicki, J. Kleijn, M. Koutny, Ł. Mikulski:
Order Structures for Subclasses of Generalised Traces.
School of Computing Science, University of Newcastle upon Tyne, UK
Technical Report CS-TR No 1437 (2014)

L.M.F. Bertens, H.J. Jansen, J. Kleijn, M. Koutny, F.J. Verbeek:
Using Petri Nets in Higher Level Development Biology: A Case Study on the AP axis
Development in Xenopus laevis. Extended abstract.
LIACS Technical Report (2009)

M.H. ter Beek, C.A. Ellis, J. Kleijn, G. Rozenberg:
Team automata for CSCW.
Proceedings of the 2nd International Colloquium on Petri Net Technologies for Modelling
Communication Based Systems (H. Weber, H. Ehrig, W. Reisig, eds.),
Fraunhofer Institute for Software and Systems Engineering, Berlin, Germany pp 1-20 (2001)

J. Kleijn:
Local traces and local event structures.
Proceedings of the MEP/ASMICS Workshop on Algebraic and Syntactic Aspects of
Concurrency
LITP 95/48 pp 153-161 (1995)

J. Kleijn, B. Rozoy:
Local Traces and Local Event Structures Again.
Proceedings of the MEP/ASMICS Workshop on Algebraic and Syntactic Aspects of
Concurrency
LITP 95/48 pp 163-171 (1995)

H.C.M. Kleijn:
Closure Properties and Grammatical Transformations in the Framework of s-Grammars,
TWI Rapport 83-13, RUL (1983)

H.C.M. Kleijn, G. Rozenberg:
Multi Sequential, Multi Continuous and Multi Parallel Grammars,
TWI Rapport 81-33, RUL (1981)

J.A. Bergstra, H.C.M. Kleijn, P. Nouwt:
On the Algebraic Specification of Finite Computable Datatypes using Monoidal Auxiliary
Functions.
TWI Rapport 80-43, RUL (1980)