

ASCI	title	authors
1	Perception of Collisions between Virtual Characters	Sybren A. Stüvel, Frank van der Stappen and Arjan Egges
2	Path-cost Analysis and Real-Time Path Computation in Weighted Regions	Norman Jaklin, Mark Tibboel and Roland Geraerts
3	Visual Explanation of Multidimensional Projections	Renato Rodrigues Oliveira Da Silva, Rafael Messias Martins, Paulo Eduardo Rauber and Alexandru C. Telea
4	Interactive Visualization of Decision Trees for the Classification of Parkinson's Disease	David Williams, Deborah Mudali, Hugo Buddelmeijer, Parisa Noorishad, Milena Ivanova, Edwin Valentijn and Jos Roerdink
5	Scheduling Workloads of Workflows with Unknown Task Runtimes	Alexey Ilyushkin, Bogdan Ghit and Dick Epema
6	TR-MAC: An Energy-efficient MAC Protocol for Wireless Sensor Network	Sarwar Morshed and Geert Heijenk
7	The RetinaCheck project	Bart Ter Haar Romeny
8	Crossing-preserving enhancement of retinal blood vessels	Jiong Zhang, Remco Duits and Bart Ter Haar Romeny
9	Automated Orientation Score-based Retinal Vessel Segmentation of SLO images	Samaneh Abbasi Sureshjani and Bart M. Ter Haar Romeny
10	RDFVault: A Compact In-Memory Dictionary for RDF data	Hamid Bazoobandi, Steven De Rooij, Jacopo Urbani, Annette Ten Teije, Henri Bal and Frank Van Harmelen
11	Flexible Point Handles Metaphor for Skin Animation	Zhiping Luo, Arjan Egges and Remco Veltkamp
12	Implementation of the PairHMM Algorithm for GATK Haplotype Analysis on FPGAs	Shanshan Ren and Zaid Al-Ars
13	PeerMatcher: Decentralized Partnership Formation	Nicolae Vladimir Bozdog and Spyros Voulgaris
14	On Hypothesis Testing for Statistical Model Checking	Daniel Reijsbergen, Pieter-Tjerk de Boer, Werner Scheinhardt and Boudewijn Haverkort
15	Effects of Dual Tasks on Postural Stability during Stair Negotiation with Different Inclinations	Forough Madehkhaksar and Arjan Egges
16	A user perspective on energy profiling tools in large scale computing environments	Fahimeh Alizadeh Moghaddam, Thomas Geenen, Patricia Lago and Paola Grosso
17	Fast seeding for BWA Sequence Alignment Algorithm	Nauman Ahmed and Zaid Al-Ars
18	A Generic Multi-Level Framework for Agent Navigation in Simulations and Games	Wouter van Toll, Norman Jaklin and Roland Geraerts
19	Static Inter-Component Dependency Analysis for Safe and Automated Stateful Recovery in a Distributed System	Koustubha Bhat, Dirk Vogt, Cristiano Giuffrida and Herbert Bos
20	Multiple fundus features in early diabetes detection	Fan Huang, Tos Berendschot and Bart Ter Haar Romeny

<b>21</b>	Energy Resilience Modelling for Smart Houses	Hamed Ghasemieh, Boudewijn Haverkort, Marijn R. Jongerden and Anne Remke
<b>22</b>	Dynamic framework for close to real-time situation assessment in security domains	Ate Penders, Gregor Pavlin, Ana Lucia Varbanescu and Rik Claessens

<b>IPA</b>	<b>title</b>	<b>authors</b>
<b>1</b>	Energy-Aware Scheduling for Modal Radio Graphs	Hrishikesh Salunkhe, Orlando Moreira and Kees van Berkel
<b>2</b>	On Computing Shortest Paths in Real-World Graphs	Frank Takes and Walter Kosters
<b>3</b>	An Embedded Hardware Description Language using Dependent Types	João Paulo Pizani Flor and Wouter Swierstra
<b>4</b>	Verification of Loop Parallelisations	Stefan Blom, Saeed Darabi and Marieke Huisman
<b>5</b>	Sublinear Scaling for Multi-Client Private Information Retrieval	Wouter Lueks and Ian Goldberg
<b>6</b>	Fault-prevention in Smart Environments for Dependable Applications	Ehsan Ullah Warriach, Tanir Ozcelebi and Johan J. Lukkien
<b>7</b>	VanHElsing	Daniel Kuehlwein, Sil van de Leemput, Frank Dorssers and Wouter Geraedts
<b>8</b>	Metric Development for Safety Assurance: A Model-driven Approach	Yaping Luo and Mark Van Den Brand
<b>9</b>	Automated Software Testing: Empowering the Human in the Loop	I.S.W.B. Prasetya
<b>10</b>	The state of the art in fault tree modeling: What can FTA do for system dependability today?	Enno Ruijters and Mariëlle Stoelinga

<b>PROGRESS</b>	<b>title</b>	<b>authors</b>
<b>1</b>	Composing and synchronizing real-time software through virtual platforms in vehicular systems	Martijn M.H.P. Van Den Heuvel
<b>2</b>	Modeling Interaction in Automated E-Coaching - A Case from Insomnia Therapy	Robbert Jan Beun, Fiemke Griffioen, René Ahn, Siska Fitriani and Jaap Lancee
<b>3</b>	Consolidated Embedded Electronic Architecture on MPSoC for Automotive Systems	Juan Valencia, Dip Goswami and Kees Goossens
<b>4</b>	Hardware Efficient Quasi-Lossless Spatial Compression for Multi-Camera Computational Video Systems	Yu Bao, Jef Stals, Yimu Wang and Luc Claesen
<b>5</b>	SDN Software Defined Network for High Bandwidth Multi-Camera Video Systems	Martijn Rymen, Chen Chien and Luc Claesen
<b>6</b>	A Readout Chip for Miniaturized in vivo Biosensor Implant	Moustafa Nawito and Harald Richter
<b>7</b>	A Parametrizable Dataflow Implementation of Optical Flow	J. Reinier van Kampenhout, Sander Stuijk and Kees Goossens
<b>8</b>	Highly-Efficient and Fine-Grained Synchronizations on GPUs	Ang Li, Gert-Jan van den Braak and Henk Corporaal

9	Improving the Programmability of FPGA Accelerators	Shakith Fernando, Mark Wijtvliet, Cedric Nugteren, Akash Kumar and Henk Corporaal
10	Dataflow Modelling of Real-Time Memory Controllers	Yonghui Li, Orlando Moreira, Benny Akesson and Kees Goossens
11	Conservative Abstraction of Dataflow Graphs	Gabriela Breaban, Sander Stuijk and Kees Goossens
12	GPU Shared Memory Hash Functions	Gert-Jan van den Braak and Henk Corporaal
13	Model-Driven Design of Simulation Support for the TERRA Robot Software Tool Suite	Zhou Lu, Maarten Bezemer and Jan Broenink
14	Aggressive Data Transfer Reduction by Loop Fusion and Re-computation for Dedicated Accelerators	Maurice Peemen, Bart Mesman and Henk Corporaal
15	Extended Abstract: Accuracy Improvement of Dataflow Analysis for Static Priority Preemptive Scheduled Multiprocessor Systems	Philip Wilmanns, Stefan Geuns, Joost Hausmans and Marco Bekooij
16	Dual-Ring Network for Real-Time Stream Processing Accelerator Integration	Berend Dekens, Marco Bekooij and Gerard Smit
17	Datawidth Aware, Energy Efficient Multipliers	Luc Waeijen, Hailong Jiao, Henk Corporaal and Yifan He
18	Throughput Improvement by Enforcing Mutual Exclusive Task Execution in Modal Stream Processing Applications	Guus Kuiper, Stefan Geuns and Marco Bekooij
19	Monitoring parallel SMMP calculations	Bart Stukken
20	Green Computing: Power Optimisation of VFI-based Multiprocessor Dataflow Applications	Waheed Ahmad, Philip K.F. Hölzenspies, Mariëlle Stoelinga and Jaco van de Pol
21	Parallel Implementation of Real-Time Block-Matching based Motion Estimation on Embedded Multi-Core Architectures	Nicolai Behmann, Oliver Jakob Arndt and Holger Blume
22	Performance analysis of BWA-MEM Algorithm on Memristor Based Computation-in-Memory Architecture.	Berna Torun, Mottaqiallah Taouil, Said Hamdioui and Koen Bertels
23	Performance Analysis of Scalable Matrix Multiplication Algorithm on Memristor Based Computation-In-Memory Architecture	Muhammad Adib Haron, Mottaqiallah Taouil, Said Hamdioui and Koen Bertels
24	First investigations for a scalable quantum computer architecture	Savvas Varsamopoulos, Xiang Fu, Carmina Garcia Almudever and Koen Bertels
25	Composable and Predictable Dynamic Loading for Time-Critical Partitioned Systems	Shubhendu Sinha, Martijn Koedam, Rob van Wijk, Andrew Nelson, Ashkan Beyranvand Nejad, Marc Geilen and Kees Goossens
26	Energy-Efficient System Design of Heterogeneous MPSoCs for Real-Time Streaming Applications	Di Liu, Jelena Spasic, Gang Chen, and Todor Stefanov

Pro RISC	title	authors
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1	Digital down converting method for notch calibration of bandpass sigma-delta modulators	Jingjing Hu, Arthur van Roermund, Hans Hegt and Sotir Ouzounov
2	An Interleaved DAC	Erik Olieman, Anne-Johan Annema, Eric Klumperink and Bram Nauta
3	Energy Efficiency Comparison for Neurostimulation using Exponentially Increasing and Rectangular Waveforms	Diego Lujan Villarreal, Wolfgang Krautschneider and Dietmar Schröder
4	Interference Robust Constant-Gm Vector Modulator	Michiel Soer, Eric Klumperink, Bram Nauta and Frank van Vliet
5	High-Voltage Class-D Power Amplifier with Efficiency Improvement	Haifeng Ma, Ronan van der Zee and Bram Nauta
6	Circuit Modelling of Action Potential Generation and Propagation in Damaged Nerve Cells	Diego Lujan Villarreal, Viviane Silva Teixeira, Wolfgang Krautschneider and Dietmar Schröder
7	A Java/JNI/C/Fortran makefile project for a Java plug-in and related Android app in Eclipse ADT bundle: A side-by-side comparison	Ron de Beer and Dirk van Ormondt
8	A 20-bit Incremental Zoom ADC with 15ppm INL and 1 $\mu$ V Offset	Burak Gönen, Kamran Souri, Youngcheol Chae and Kofi A. A. Makinwa
9	Comparison of the implementation options of a summation function in high speed continuous-time sigma-delta ADCs	Chenming Zhang, Haoming Xin, Georgi Radulov, Lucien Breems, Hans Hegt and Arthur van Roermund
10	A 0.7mW Audio DAC with 115dB DR and -61dBFS Out-of-Band Noise	Hugo Westerveld, Daniël Schinkel, Bram Nauta and Ed van Tuijl
11	LNA design for Ka-band application in SiGe	Zhe Chen, Dusan Milosevic, Peter Baltus and Arthur Roermund
12	A Self-Interference Cancelling Receiver for In-band Full Duplex Wireless	Dirk-Jan van den Broek, Eric A.M. Klumperink and Bram Nauta
13	Improved estimation of the temporal decay function of in vivo metabolite signals	Dirk van Ormondt, Ronald de Beer, Jan Willem C. van der Veen, Diana S. Sima and Danielle Graveron-Demilly
14	Avoiding Transitional Effects in Dynamic Circuit Specialisation on FPGAs	Karel Heyse and Dirk Stroobandt
15	A 60-GHz Injection Locked Oscillator for Self-demodulation Ultra-low Power Radio in 65-nm CMOS	Hao Gao, Marion Matters-Kammerer, Xia Li, Dusan Milosevic, Arthur van Roermund and Peter Baltus
16	An Improved Modeling Technique for Peak Current-Mode Control-Based Boost Converters	Saifullah Amir, Ronan van der Zee and Bram Nauta
17	Rectifier Modeling and Multiple Stages Rectifier Analysis for Wireless-Powered Sensor Networks	Kuangyuan Ying, Hao Gao, Yan Wu, Marion Matters-Kammerer, Jean-Paul Linnartz and Peter Baltus
18	A compact, high precision position sensing embedded system for fast steering mirror	Muhammad Wasif, Arjan Van Genderen and Gleb Vdovin
19	Low-Power Receive Electronics for a Miniature Real-Time 3D Ultrasound Probe	C. Chen, Z. Chen, S.B. Raghunathan, D. Bera, Z. Chang, S. Blaak, C. Prins, J. Ponte, J.G. Bosch, M.D. Verweij, M.A.P. Pertijs and N. de Jong
20	Offset Transmitters for MIMO Radar	Johan Withagen

21	Downconverter with embedded tunable filtering	Remko Struiksma, Eric Klumperink, Bram Nauta and Frank van Vliet
22	Implementations and Simulated Examples of Integrated Band Pass Filters Realized with Gytrators	Atanas Tanev, Sotir Ouzounov, Marin Hristov and Ivan Uzunov
23	Reconfigurable Sigma Delta ADC Architecture for Area Efficient Calibration	Ketan Pol, Hans Hegt and Sotir Ouzounov
24	Impact of BTI on High Performance and Low Power Memory Sense Amplifier Designs	Innocent Agbo, Mottaqiallah Taouil, Said Hamdioui, Stefan Cosemans, Pieter Weckx, Praveen Raghavan and Francky Catthoor
25	Ka-band VSAT 4-Channel Phased Array Receiver Demonstrator	Ioannis Bliigiannis

SAFE	title	authors
1	Miniaturized Optical Data Link Assembly for $\varnothing$ 360 $\mu$ m Guidewires	Ronald Stoute, Marcus Louwerse, Jeannet van Rens, Vincent Henneken and Ronald Dekker
2	Flexible/Stretchable Ultrasound Body Patches	Shivani Joshi, Vincent Henneken, Ronald Dekker and Rene Sanders
3	Methodology for Compensating Stress-Induced Warpage in Embedding Process of Ultra-thin Chips in Polymers	Golzar Alavi, Mahadi-Ui Hassan, Christine Harendt and Prof. Dr. Joachim N Burghartz
4	Patterning of Noble Metal Contact Pads for Measurement Chips Analyzing Peptide Systems	Sandra Naasz, Christine Harendt, Elisabeth Penteker and Joachim Burghartz
5	Development and Characterization of a Grinding Process for Ultra-thin Chip Fabrication	Eva-Maria Tropper, Christine Harendt, Stephan Schmiel and Joachim Burghartz
6	Schottky diodes made from molybdenum grown wafer-scale CVD graphene	Sten Vollebregt, Filiberto Ricciardella, Yelena Grachova, Tiziana Polichetti and Lina Sarro
7	A post processing approach for fabrication of stretchable electronic circuits	Angel Metodiev Savov, Saeed Khoshfetrat Pakazad, Shivani Joshi, Vincent Henneken and Ronald Dekker
8	Detection of Anastomotic Leakage after Colon Surgery by Evanescent Waveguide	Yu Xin, Agung Purniawan, Lukasz Pakula, Gregory Pandraud and Paddy French

SIKS	title	authors
1	Detecting Implicit Aspects in Consumer Reviews for Sentiment Analysis	Kim Schouten, Flavius Frasinca and Franciska de Jong
2	A Lexico-Syntactic Approach for Ontology Population using Web Product Descriptions	Kim Schouten, Lennart Nederstigt, Steven Aanen and Flavius Frasinca
3	Design of a Socially Adaptive Mobile Application for Families	Alex Kayal, Willem-Paul Brinkman, Mark Neerincx and M. Birna van Riemsdijk
4	Knowledge Based Query Expansion in Complex Multimedia Event Detection	Maaïke de Boer, Klamer Schutte and Wessel Kraaij

5	Towards the Automatic Understanding of Social Touch	Merel M. Jung
6	Value Function Discovery in MDPs with Evolutionary Algorithms	Martijn Onderwater, Sandjai Bhulai and Rob van der Mei
7	Robot Mood is Contagious: Effects of Robot Body Language in the Imitation Game	Junchao Xu, Joost Broekens, Koen Hindriks and Mark Neerinx
8	Smooover: Personalized Speed Limits using In-Car Applications	Erwin Walraven, Matthijs T.J. Spaan and Bram Bakker
9	Sharing Information in Teams: Giving Up Privacy or Compromising on Team Performance?	Maaïke Harbers, Reyhan Aydogan, Catholijn Jonker and Mark Neerinx
10	A Domain Specific Language for Context-Aware Well-Being Systems	Steven Bosems and Marten van Sinderen
11	LOITER: A prototype of a serious game for training social skills of police officers	Jeroen Linssen, Thomas de Groot, Thijs Ferket, Merijn Bruijnes, Mariet Theune, Rieks Op den Akker, Dirk Heylen, Johan de Heer, Daan Nusman and Steven Wijgerse
12	Sub-document Timestamping of the Web	Yue Zhao and Claudia Hauff
13	Crowdsourcing Knowledge Acceleration	Jie Yang, Alessandro Bozzon and Geert-Jan Houben
14	Best-Response Planning of Thermostatically Controlled Loads under Power Constraints	Frits de Nijs, Matthijs Spaan and Mathijs De Weerd
15	Developing Adaptive Applications with WiBAF	Alejandro Montes García, Paul De Bra, Mykola Pechenizkiy and George H. L. Fletcher