

# Community Awards

Here we collect an archive of awards that have been bestowed by conferences in our community as well to members of our community.

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# FPGA Best Paper Awards

The ACM/SIGDA International Symposium on Field Programmable Gate Arrays (FPGA) has awarded Best Paper Awards to the following papers:

2026

**[KANELÉ: Kolmogorov-Arnold Networks for Efficient LUT-based Evaluation](#)**

Duc Hoang, Aarush Gupta and Philip C Harris

2025

**[FlightVGM: Efficient Video Generation Model Inference with Online Sparsification and Hybrid Precision on FPGAs](#)**

Jun Liu, Shulin Zeng, Li Ding, Widyadewi Soedarmadji, Hao Zhou, Zehao Wang, Jinhao Li, Jintao Li, Yadong Dai, Kairui Wen, Shan He, Yaqi Sun, Yu Wang and Guohao Dai

2024

**[Formal Verification of Source-to-Source Transformations for HLS](#)**

Louis-Noël Pouchet, Emily Tucker, Niansong Zhang, Hongzheng Chen, Debjit Pal, Gabriel Rodríguez and Zhiru Zhang

2023

**[DONGLE: Direct FPGA-Orchestrated NVMe Storage for HLS](#)**

Linus Y. Wong, Jialiang Zhang and Jing (Jane) Li

2022

**[RapidStream: Parallel Physical Implementation of FPGA HLS Designs](#)**

Licheng Guo, Pongstorn Maidee, Yun Zhou, Chris Lavin, Jie Wang, Yuze Chi, Weikang Qiao, Alireza Kaviani, Zhiru Zhang and Jason Cong

2021

**[AutoBridge: Coupling Coarse-Grained Floorplanning and Pipelining for High-Frequency HLS Design on Multi-Die FPGAs](#)**

Licheng Guo, Yuze Chi, Jie Wang, Jason Lau, Weikang Qiao, Ecenur Ustun, Zhiru Zhang and Jason

Cong

2020

**[Buffer Placement and Sizing for High-Performance Dataflow Circuits](#)**

Lana Josipović, Shabnam Sheikha, Andrea Guerrieri, Paolo lenne and Jordi Cortadella

2019

**[HeteroCL: A Multi-Paradigm Programming Infrastructure for Software-Defined Reconfigurable Computing](#)**

Yi-Hsiang Lai, Yuze Chi, Yuwei Hu, Jie Wang, Cody Hao Yu, Yuan Zhou, Jason Cong and Zhiru Zhang

2018

**[FASTCF: FPGA-based Accelerator for Stochastic-Gradient-Descent-based Collaborative Filtering](#)**

Shijie Zhou, Rajgopal Kannan, Yu Min and Viktor K. Prasanna

2017

**[ESE: Efficient Speech Recognition Engine with Compressed LSTM on FPGA](#)**

Song Han, Junlong Kang, Huizi Mao, Yiming Hu, Xin Li, Yubin Li, Dongliang Xie, Hong Luo, Song Yao, Yu Wang, Huazhong Yang, William (Bill) J. Dally

2016

**[FPRESSO: Enabling Express Transistor-Level Exploration of FPGA Architectures](#)**

Grace Zgheib, Manana Lortkipanidze, Muhsen Owaida, David Novo and Paolo lenne

2015

**[Take the Highway: Design for Embedded NoCs on FPGAs](#)**

Mohamed S. Abdelfattah, Andrew Bitar and Vaughn Betz

2014

**[Optimizing Effective Interconnect Capacitance for FPGA Power Reduction](#)**

Safeen Huda, Jason Anderson and Hirotaka Tamura

2013

**Polyhedral-Based Data Reuse Optimization for Configurable Computing**

Louis-Noel Pouchet, Peng Zhang, P. Sadayappan and Jason Cong

2012

**Rethinking FPGAs: elude the flexibility excess of LUTs with and-inverter cones**

Hadi Parandeh-Afshar, Hind Benbihi, David Novo and Paolo Ienne

2011

**CoRAM: an in-fabric memory architecture for FPGA-based computing**

Eric S. Chung, James C. Hoe, and Ken Mai

# FCCM Best Paper Awards

The IEEE International Symposium on Field-Programmable Custom Computing Machines (FCCM) has awarded Best Paper Awards to the following papers:

2025, Fayetteville, AR

**[Guaranteed Yet Hard to Find: Uncovering FPGA Routing Convergence Paradox](#)**

Shashwat Shrivastava, Stefan Nikolić, Sun Tanaka, Chirag Ravishankar, Dinesh Gaitonde and Mirjana Stojilovic

2024, Orlando, FL

**[A Data-Driven, Congestion-Aware and Open-Source Timing-Driven FPGA Placer](#)**

**[Accelerated by GPUs](#)**

Zhili Xiong, Rachel Selina Rajarathnam and David Z. Pan

*Best Short Paper:* **[Synthesis of LUT Networks for Random-Looking Dense Functions with](#)**

**[Don't Cares - Towards Efficient FPGA Implementation of DNN](#)**

Yukio Miyasaka, Alan Mishchenko, Nicholas Fraser and John Wawrzynek

2023, Marina Del Rey, CA

**[A Machine Learning Approach for Predicting the Difficulty of FPGA Routing Problems](#)**

Andrew David Gunter and Steven J.E. Wilton

*Best Paper Runner Up:* **[LightningSim: Fast and Accurate Trace-Based Simulation for High-](#)**

**[Level Synthesis](#)**

Rishov Sarkar and Cong Hao

2022, New York City, NY

**[CoMeFa: Compute-in-Memory Blocks for FPGAs](#)**

Aman Arora, Tanmay Anand, Aatman Borda, Rishabh Sehgal, Bagus Hanindhito, Jaydeep Kulkarni and Lizy K. John

2021, Virtual Conference

## **[Clockwork: Resource-Efficient Static Scheduling for Multi-Rate Image Processing](#)**

### **[Applications on FPGAs](#)**

Dillon Huff, Steve Dai and Pat Hanrahan

### *Best Short Paper:* **[ESCA: Event-Based Split-CNN Architecture with Data-Level Parallelism on UltraScale+ FPGA](#)**

Pankaj Bhowmik, Jubaer Hossain Pantho, Joel Mandebi Mbongue and Christophe Bobda

## 2020, Virtual Conference

### **[Comparison of Arithmetic Number Formats for Inference in Sum-Product Networks on FPGAs](#)**

Lukas Sommer, Lukas Weber, Martin Kumm and Andreas Koch

### *Best Short Paper:* **[Yosys+nextpnr: an Open Source Framework from Verilog to Bitstream for Commercial FPGAs](#)**

David Shah, Eddie Hung, Clifford Wolf, Serge Bazanski, Dan Gisselquist and Miodrag Milanovic

## 2019, San Diego, CA

### **[Templatized soft floating-point for High-Level Synthesis](#)**

David B. Thomas

## 2018, Boulder, CO

### **[ReBNet: Residual Binarized Neural Network](#)**

Mohammad Ghasemzadeh, Mohammad Samragh and Farinaz Koushanfar

### *Best Short Paper:* **[Fast and Accurate Estimation of Quality of Results in High-Level Synthesis with Machine Learning](#)**

Steve Dai, Yuan Zhou, Hang Zhang, Ecenur Ustun, Evangeline F.Y. Young and Zhiru Zhang

## 2017, Napa, CA

### **[High-Performance Hardware Merge Sorter](#)**

Susumu Mashimo, Thiem Van Chu and Kenji Kise

### *Best Short Paper:* **[Evaluating Rapid Application Development with Python for Heterogeneous Processor-based FPGAs](#)**

Andrew G. Schmidt, Gabriel Weisz and Matthew French

## 2016, Washington DC

### [\*\*KAPow: A System Identification Approach to Online Per-module Power Estimation in FPGA Designs\*\*](#)

Eddie Hung, James J. Davis, Joshua M. Levine, Edward A. Stott, Peter Y.K. Cheung and George A. Constantinides

*Best Short Paper:* [\*\*GRVI Phalanx: A Massively Parallel RISC-V FPGA Accelerator Accelerator\*\*](#)  
Jan Gray

## 2015, Vancouver, Canada

### [\*\*Using Dynamic Signal-Tracing to Debug Compiler-Optimized HLS Circuits on FPGAs\*\*](#)

Jeffrey Goeders and Steve J.E. Wilton

## 2014, Boston, MA

### [\*\*Speeding Up FPGA Placement: Parallel Algorithms and Methods\*\*](#)

Matthew An, J. Gregory Steffan and Vaughn Betz

## 2013, Seattle, WA

### [\*\*Parallel Computation of Skyline Queries\*\*](#)

Louis Woods, Gustavo Alonso and Jens Teubner

## 2012, Toronto, Canada

### [\*\*Hardware Acceleration of Short Read Mapping\*\*](#)

Corey B. Olson, Maria Kim, Cooper Clauson, Boris Kogon, Carl Ebeling, Scott Hauck and Walter L. Ruzzo

## 2011, Salt Lake City, UT

### [\*\*Multilevel Granularity Parallelism Synthesis on FPGAs\*\*](#)

Alexandros Papakonstantinou, Yun Liang, John A. Stratton, Karthik Gururaj, Deming Chen, Wen-Mei W. Hwu and Jason Cong

## 2010, Charlotte, NC

### [\*\*Hardware Acceleration of Approximate Tandem Repeat Detection\*\*](#)

Tomáš Martínek and Matej Lexa

## **Rapid RNA Folding: Analysis and Acceleration of the Zuker Recurrence**

Arpith C. Jacob, Jeremy D. Buhler and Roger D. Chamberlain

# FPL Best Paper Awards

The International Conference on Field Programmable Logic and Applications (FPL) awards three awards:

**Michal Servit Memorial Award (MS)** awarded to the most outstanding paper in the area of design algorithms, methods, and CAD tools for FPGAs and self-aware systems.

**Stamatis Vassiliadis Memorial Award (SV)** awarded to the most outstanding paper in the area of Architecture & Applications.

**FPL Community Award** awarded to those who have made a significant contribution to the community by providing some material or knowledge in an open format that benefits the rest of the community.

FPL has awarded the awards:

## 2025, Leiden, The Netherlands

**MS: [From Errors to Solutions: LLM-Powered Command Scripting for FPGA CAD Tools](#)**

Mohamed A. Elgammal and Vaughn Betz

**SV: [Double Duty: FPGA Architecture to Enable Concurrent LUT and Adder Chain Usage](#)**

Xilai Dai, Junius Pun, Grace Zgheib, Mahesh Iyer, Andrew Boutros, Vaughn Betz and Mohamed Abdelfattah

**Community: [Koios: A Deep Learning Benchmark Suite for FPGA Architecture and CAD Research](#)**

Aman Arora, Andrew Boutros, Daniel Rauch, Aishwarya Rajen, Aatman Borda, Seyed Alireza Damghani, Samidh Mehta, Sangram Kate, Pragnesh Patel, Kenneth B. Kent, Vaughn Betz and Lizy K. John

## 2024, Turin, Italy

**MS: [DynaRapid: Fast-Tracking from C to Routed Circuits](#)**

Andrea Guerrieri, Srijeet Guha, Chris Lavin, Eddie Hung, Lana Josipovic and Paolo lenne

**SV: [SERI: High-Throughput Streaming Acceleration of Electron Repulsion Integral](#)**

**[Computation in Quantum Chemistry using HBM-based FPGAs](#)**

Philip Stachura, Guanyu Li, Xin Wu, Christian Plessl and Zhenman Fang

*Community:* **Artifact Evaluation Initiative**

Miriam Leiser and Suhaib Fahmy

## 2023, Gothenburg, Sweden

*MS:* [Compiler Discovered Dynamic Scheduling of Irregular Code in High-Level Synthesis](#)

Robert Szafarczyk, Syed Waqar Nabi and Wim Vanderbauwhede

*SV:* [Co-ViSu: a Video Super-Resolution Accelerator Exploiting Codec Information Reuse](#)

Haishuang Fan, Jingya Wu, Wenyan Lu, Xiaowei Li and Guihai Yan

*Community:* [GNNBuilder: An Automated Framework for Generic Graph Neural Network](#)

[Accelerator Generation, Simulation, and Optimization](#)

Stefan Abi-Karam and Cong Hao

## 2022, Belfast, United Kingdom

*MS:* [Bitfiltrator: A general approach for reverse-engineering Xilinx bitstream format](#)

Sahand Kashani, Mahyar Emami and James R. Larus

*SV:* [DeLiBA: An Open-Source Hardware/Software Framework for the Development of](#)

[Linux Block I/O Accelerators](#)

Babar Khan, Carsten Heinz and Andreas Koch

## 2021, Virtual Conference

*MS:* [Turning PathFinder Upside-Down: Exploring FPGA Switch-Blocks by Negotiating](#)

[Switch Presence](#)

Stefan Nikolić and Paolo lenne

*SV:* [Eciton: Very Low-Power LSTM Neural Network Accelerator for Predictive](#)

[Maintenance at the Edge](#)

Jeffrey Chen, Sehwan Hong, Warrick He, Jinyeong Moon and Sang-Woo Jun

*Community:* [FGPU: An SIMT-Architecture for FPGAs](#) (published at FPGA 2016)

Muhammed Al Kadi, Benedikt Janssen and Michael Huebner

## 2020, Virtual Conference

*MS:* [Timing-Driven Placement for FPGA Architectures with Dedicated Routing Paths](#)

Stefan Nikolić, Grace Zgheib and Paolo lenne

SV: [LogicNets: Co-Designed Neural Networks and Circuits for Extreme-Throughput](#)

### [Applications](#)

Yaman Umuroglu, Yash Akhauri, Nicholas J. Fraser and Michaela Blott

## 2019, Barcelona, Spain

MS: [A Deep Learning Framework to Predict Routability for FPGA Circuit Placement](#)

Abeer Alhyari, Ahmed Shamli, Ziad Abuwaimer, Shawki Areibi and Gary Grewal

SV: [Characterizing Power Distribution Attacks in Multi-User FPGA Environments](#)

George Provelengios, Daniel Holcomb and Russell Tessier

## 2018, Dublin, Ireland

MS: [Machine-Learning Based Congestion Estimation for Modern FPGAs](#)

Dani Maarouf, Abeer Alhyari, Ziad Abuwaimer, Timothy Martin, Andrew Gunter, Gary Grewal, Shawki Areibi and Anthony Vannelli

SV: [Embracing Diversity: Enhanced DSP Blocks for Low-Precision Deep Learning on FPGAs](#)

Andrew Boutros, Sadegh Yazdanshenas and Vaughn Betz

## 2017, Ghent, Belgium

SV: [Automated Generation of Banked Memory Architectures in the High-Level Synthesis of Multi-Threaded Software](#)

Yu Ting Chen and Jason H. Anderson

MS: [Voltage Drop-based Fault Attacks on FPGAs using Valid Bitstreams](#)

Dennis R. E. Gnad, Fabian Oboril and Mehdi B. Tahoori

Community: [FloPoCo Parameterized Floating-Point Core Generator](#)

Florent De Dinechin

## 2016, Lausanne, Switzerland

MS: [An Evaluation on the Accuracy of the Minimum Width Transistor Area Models in Ranking the Actual Layout Area of FPGA Architectures](#)

Farheen Fatima Khan and Andy Ye

SV: [\*\*An Investigation into a Circuit Based Supply Chain Analyzer for FPGAs\*\*](#)

Jacob Couch and John Arkoian

Community: [\*\*JetStream: An open-source high-performance PCI Express 3 streaming library for FPGA-to-Host and FPGA-to-FPGA communication\*\*](#)

Malte Vesper, Dirk Koch, Kizheppatt Vipin and Suhaib A. Fahmy

## 2015, London, United Kingdom

MS: [\*\*Hoplite: Building austere overlay NoCs for FPGAs\*\*](#)

Nachiket Kapre and Jan Gray

SV: [\*\*CoRAM++: Supporting Data Structure-specific Memory Interfaces for FPGA Computing\*\*](#)

Gabriel Weisz and James C. Hoe

Community: **Placement and routing frameworks for FPGA research**

Vaughn Betz

## 2014, Munich, Germany

MS: [\*\*Hardware Accelerated Novel Optical De Novo Assembly for Large-Scale Genomes\*\*](#)

Pingfan Meng, Matthew Jacobsen, Motoki Kimura, Vladimir Dergachev, Thomas Anantharaman, Michael Requa and Ryan Kastner

Community: [\*\*LegUp High Level Synthesis Framework\*\*](#)

Jason H. Anderson and Stephen Brown

## 2013, Porto, Portugal

MS: [\*\*A Run-Time Graph-Based Polynomial Placement and Routing Algorithm for Virtual FPGAs\*\*](#)

R. Ferreira, L. Rocha, A. Santos, J. Nacif, Stephan Wong and Luigi Carro

SV: [\*\*The Power of Communication: Energy-Efficient NoCs for FPGAs\*\*](#)

Mohamed S. Abdelfattah and Vaughn Betz

Community: [\*\*RIFFA 2.0: A Reusable Integration Framework for FPGA Accelerators\*\*](#)

Matthew Jacobsen and Ryan Kastner

## 2012, Oslo, Norway

MS: [Correctly Rounded Floating-Point Division for DSP-Enabled FPGAs](#)

Bogdan Pasca

SV: [Automatically Exploiting Regularity in Applications to Reduce Reconfiguration Memory Requirements](#)

Fatma Aboueilella, Karel Bruneel and Dirk Stroobandt

Community: [A High Performance, Open Source SATA2 Core](#)

Ashwin A. Mendon, Bin Huang and Ron Sass

## 2011, Crete, Greece

Community: [RapidSmith: Do-It-Yourself CAD Tools for Xilinx FPGAs](#)

Christopher Lavin, Marc Padilla, Jaren Lamprecht, Philip Lundrigan, Brent E. Nelson and Brad L. Hutchings

## 2010, Milan, Italy

MS: [Enhancing FPGA Device Capabilities by the Automatic Logic Mapping to Additive Carry Chains](#)

Thomas B. Preusser and Rainer G. Spallek

SV: [FPGA-Optimised Uniform Random Number Generators Using LUTs and Shift Registers](#)

David B. Thomas and Wayne Luk

Community: [ATHENa - Automated Tool for Hardware Evaluation: Toward Fair and Comprehensive Benchmarking of Cryptographic Hardware Using FPGAs](#)

Kris Gaj, Jens-Peter Kaps, Venkata Amirineni, Marcin Rogawski, Ekawat Homsirikamol and Benjamin Y. Brewster

## 2009, Prague, Czech Republic

MS: [Exploiting Fast Carry-Chains of FPGAs for Designing Compressor Trees](#)

Hadi Parandeh-Afshar, Philip Brisk and Paolo Ienne

## 2008, Heidelberg, Germany

SV: [Rapid estimation of power consumption for hybrid FPGAs](#)

Chun Hok Ho, Philip H.W. Leong, Wayne Luk and Steven J.E. Wilton

## 2007, Amsterdam, Netherlands

SV: [Domain-Specific Hybrid FPGA: Architecture and Floating Point Applications](#)

Chun Hok Ho, Chi Wai Yu, Philip H.W. Leong, Wayne Luk and Steven J.E. Wilton

## 2006, Madrid, Spain

[Multi-layer Floorplanning on a Sequence of Reconfigurable Designs](#)

Love Singhal and Elaheh Bozorgzadeh

*Altera Award on FPGA Architectures:* [Power Implications of Implementing Logic Using FPGA](#)

[Embedded Memory Arrays](#)

Scott Y.L. Chin, Clarence S.P. Lee and Steven J.E. Wilton

*Xilinx Award on FPGA Technology:* [Reducing the Space Complexity of Pipelined Routing using Modified Range Encoding](#)

Allan Carroll and Carl Ebeling

## More About the Awards:

Michal Servit was General Chair of FPL 1994 in Prague, the largest FPL ever held to that date. He was an associate professor at the EE dept. of the University of Prague. Michal Servit attended all FPLs, and served as a reviewer for all those years as a member of the program committee, and steering committee of FPL. Unfortunately, he did not survive a heart attack during vacations in Austria, December 5, 1997. The community misses with him as a cooperative and highly competent friend full of good ideas. He was an important part of the FPL organization. The first Michael Servit Memorial Award was initially organized by Stephen Guccione triggered by an idea from John Schewel.

Prof. Stamatis Vassiliadis (IEEE Fellow, ACM Fellow, Member of the Dutch Academy of Sciences, and Professor at Delft University of Technology), is well known as an outstanding computer scientist and for establishing the SAMOS conference in 2001. When he passed away much too early on 7 April 2007, the community lost one of its most skilled and inspiring actors. Stamatis Vassiliadis was involved in the organization of many scientific conferences and he was the general chair of FPL2007.

The FPL Community Award was introduced at FPL 2010 in Milano by the organizers Fabrizio Ferrandi, Marco D. Santambrogio, and Jari Nurmi.

# FPT Best Paper Awards

The International Conference on Field Programmable Technology (FPT) has awarded Best Paper Awards to the following papers:

2025, Shanghai, China

**[JEDI-Linear: Fast and Efficient Graph Neural Networks for Jet Tagging on FPGAs](#)**

Zhiqiang Que, Chang Sun, Sudarshan Paramesvaran, Emyr Clement, Katerina Karakoulaki, Christopher Brown, Lauri Laatu, Arianna Cox, Alexander Tapper, Wayne Luk and Maria Spiropulu

2024, Sydney, Australia

**[GraphNoC: Graph Neural Networks for Application-Specific FPGA NoC Performance Prediction](#)**

Gurshaant Malik and Nachiket Kapre

2023, Yokohama, Japan

**[PolyLUT: Learning Piecewise Polynomials for Ultra-Low Latency FPGA LUT-based Inference](#)**

Marta Andronic and George A. Constantinides

**[Into the Third Dimension: Architecture Exploration Tools for 3D Reconfigurable Acceleration Devices](#)**

Andrew Boutros, Fatemehsadat Mahmoudi, Amin Mohaghegh, Stephen More and Vaughn Betz

2022, Hong Kong SAR

**[Cloning the Unclonable: Physically Cloning an FPGA RO PUF](#)**

Hayden Cook, Jonathan Thompson, Zephram Tripp, Brad Hutchings and Jeffrey Goeders

2021, Virtual Conference

**[A High-Performance and Flexible FPGA Inference Accelerator for Decision Forests Based on Prior Feature Space Partitioning](#)**

Thiem Van Chu, Ryuichi Kitajima, Kazushi Kawamura, Jaehoon Yu and Masato Motomura

2019, Tianjin, China

## **Partitioning FPGA-Optimized Systolic Arrays for Fun and Profit**

Long Chung Chan, Gurshaant Malik and Nachiket Kapre

2018, Naha, Japan

## **Dither NN: An Accurate Neural Network with Dithering for Low Bit-Precision Hardware**

Kota Ando, Kodai Ueyoshi, Yuka Oba, Kazutoshi Hirose, Ryota Uematsu, Takumi Kudo, Masayuki Ikebe, Tetsuya Asai, Shinya Takamaeda-Yamazaki and Masato Motomura

2017, Melbourne, Australia

## **Synthesis of Program Binaries into FPGA Accelerators with Runtime Dependence**

### **Validation**

Shaoyi Cheng, Qijing Huang and John Wawrzynek

2016, Xian, China

## **High Density, Low Energy, Magnetic Tunnel Junction Based Block RAMs for Memory-rich FPGAs**

Kosuke Tatsumura, Sadegh Yazdanshenas and Vaughn Betz

2015, Queenstown, New Zealand

## **Energy Minimization in the Time-Space Continuum**

Hyunseok Park, Shreel Vijayvargiya and André DeHon

2014, Shanghai, China

## **Design Re-Use for Compile Time Reduction in FPGA High-Level Synthesis Flows**

Marcel Gort and Jason Anderson

2013, Kyoto, Japan

## **Maximum Flow Algorithms for Maximum Observability During FPGA Debug**

Eddie Hung, Al-Shahna Jamal and Steven J. E. Wilton

2012, Seoul, South Korea

## **IDEA: A DSP Block Based FPGA Soft Processor**

Hui Yan Cheah, Suhaib A. Fahmy and Douglas L. Maskell

**Graph Minor Approach for Application Mapping on CGRAs**

Liang Chen; Tulika Mitra

2011, New Delhi, India

**VLIW-SCORE: Beyond C for Sequential Control of SPICE FPGA Acceleration**

Nachiket Kapre and André DeHon

2010, Beijing, China

**Parallelizing FPGA placement using transactional memory**

Steven Birk. J. Gregory Steffan and Jason H. Anderson

2009, Sydney, Australia

**American Option Pricing on Reconfigurable Hardware Using Least-Squares Monte Carlo Method**

Xiang Tian and Khaled Benkrid

2008, Taipei, Taiwan

**Optimizing Residue Arithmetic on FPGAs**

Haohuan Fu, Oskar Mencer and Wayne Luk

2007, Kitakyushu, Japan

**Memory Footprint Reduction For FPGA Routing Algorithms**

Scott Y.L. Chin and Steven J.E. Wilton

2006, Bangkok, Thailand

**FPGA core watermarking based on power signature analysis**

Daniel Ziener and Jurgen Teich

2005, Singapore

**Dynamic voltage scaling for commercial FPGAs**

C.T. Chow, L.S.M. Tsui, Philip H.W. Leong, Wayne Luk; Steven J.E. Wilton

2004, Brisbane, Australia

**Directional and Single-Driver Wires in FPGA Interconnect**

Guy Lemieux; Edmund Lee; Marvin Tom; Anthony Yu

2003, Tokyo, Japan

**Product Term Embedded Synthesizable Logic Cores**

Andy Yan and S.J.E. Wilton

[Source](#)

# ACM TRETS Best Paper Awards

The ACM Transactions on Reconfigurable Technology and Systems (TRETS) has awarded Best Paper Awards to the following papers:

2020

**[VTR 8: High-performance CAD and Customizable FPGA Architecture Modelling](#)**

Kevin E. Murray, Oleg Petelin, Sheng Zhong, Jia Min Wang, Mohamed Eldafrawy, Jean-Philippe Legault, Eugene Sha, Aaron G. Graham, Jean Wu, Matthew J. P. Walker, Hanqing Zeng, Panagiotis Patros, Jason Luu, Kenneth B. Kent and Vaughn Betz

2019

**[FINN-R: An End-to-End Deep-Learning Framework for Fast Exploration of Quantized Neural Networks](#)**

Michaela Blott, Thomas B. Preußner, Nicholas J. Fraser, Giulio Gambardella, Kenneth O'brien, Yaman Umuroglu, Miriam Leeser, Kees Vissers

2018

**[General-Purpose Computing with Soft GPUs on FPGAs](#)**

Muhammed Al Kadi, Benedikt Janssen, Jones Yudi and Michael Huebner

2017

**[Hoplite: A Deflection-Routed Directional Torus NoC for FPGAs](#)**

Nachiket Kapre and Jan Gray

2016

**[Fine Grained Interconnect Synthesis](#)**

Alex Rodionov, David Biancolin and Jonathn Rose.

2015

## **The Cibola Flight Experiment**

Heather Quinn, Diane Roussel-Dupre, Mike Caffrey, Paul Graham, Michael Wirthlin, Keith Morgan, Anthony Salazar, Tony Nelson, Will Howes, Eric Johnson, Jon Johnson, Brian Pratt, Nathan Rollins and Jim Krone

[Source](#)