

Best Paper Awards ISCC 2005

The following papers were nominated for best paper awards at ISCC 2005. There are four categories; an award was presented in each category. Factors considered in making the awards were the scores assigned by the reviewers, and the opinions of the judges both about the paper contents, and the effective presentation of the work at ISCC 2005. The judges for these awards were Vicente Casares Giner, Douglas Reeves, Mahmoud Daneshmand, Adel Elmaghrabi, Anup Kumar, and Fernando Cerdan (excluded from voting on papers in the second category, due to a conflict of interest). The winner in each category is **highlighted**.

Congratulations to all of these authors. Top papers from ISCC 2005, including the papers below, will be invited to submit extended versions for possible publication in the *International Journal of High Performance Computing and Networks*.

STUDENT PAPERS FROM SPAIN

1. “On the use of cluster computing architectures for implementation of hyperspectral image analysis algorithms”
David Valencia, Antonio Plaza, Pablo Martinez
2. **“Emulating web cache replacement algorithms versus a real system”**
Luis Cardenas, José Gil, Josep Doménech, Julio Sauquillo, Ana Pont
3. “Estimation of the Probability of Congestion using Monte Carlo method in OPS Networks”
Anna Urra, Jose Marzo, Mateu Sbert, Eusebi Calle Ortega

NON-STUDENT PAPERS FROM SPAIN

1. **“Proportional Bandwidth Distribution in IP Networks implementing the Assured Forwarding PHB”**
Maria-Dolores Cano, Fernando Cerdan
2. “Design of a Cryptosystem Based on Reversible Memory Cellular Automata”
Angel Martin del Rey
3. **“A Game Theoretic Analysis of Protocols Based on Fountain Codes”**
Luis López, Antonio Fernández, Vicent Cholvi

STUDENT PAPERS FROM OUTSIDE SPAIN

1. “Peer-to-peer Content Delivery over Mobile Networks: A Techno-Economic Analysis”
Renjish Kaleelazhicathu, Heikki Hammainen
2. **“Architecture and Configuration of Broadband Access Networks”**
András Kern, Mátyás Martinecz, Zalan Heszberger
3. “Fair and Efficient Frame-Based Scheduling Algorithm for Multimedia Networks”
Tariq Al-Khasib, Hussein Alnuweiri, Hossam Fattah, Victor Leung

NON-STUDENT PAPERS FROM OUTSIDE SPAIN

1. “A Pro-Active Routing Protocol for Continuous Data Dissemination Wireless Sensor Networks”
Daniel Macedo, Luiz Correia Aldri Santos, Antonio A.F. Loureiro, José Marcos Nogueira
2. “Flexible Bandwidth Provision in a Sectored Packet Switch with an Optical Core”
Sofia Paredes, Trevor Hall
3. **“Outage Probability Analysis in Cellular Systems with Noisy Weibull-Faded Lognormal-Shadowed Links”**
Mahmoud Ismail, Mustafa Matalgah
4. “Core Based Multipath Routing in DiffServ Networks”
Sajjad Zarifzadeh