

Martin Cornelis Frederik Slot

CONTACT INFORMATION

Marco Slot
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RESEARCH INTERESTS

Computer networks, large-scale distributed systems, distributed robotics.

EDUCATION

Trinity College Dublin, Dublin, Ireland

Phd. in Distributed Systems Group

April 2009 – Present

Thesis topic: Group Communication for Cooperative Self-driving Cars

Advisors: Vinny Cahill

Vrije Universiteit, Amsterdam, Netherlands

M.Sc. Parallel and Distributed Computer Systems

September 2006 – August 2008

Thesis topic: Latency-driven BitTorrent

Advisors: Guillaume Pierre, Paolo Costa

B.Sc. Computer Science

September 2003 – August 2006

Thesis topic: Dynamic Web Service Selection

Advisors: Guillaume Pierre

PROFESSIONAL EXPERIENCE

Amazon Data Services, Dublin, Ireland

Software Development Engineer (part-time)

July 2010 – Present

Member of the CloudFront (Content Delivery Network) and Route 53 (Distributed DNS) teams.

Work includes optimization, analysis, and redesign of CloudFront's global request routing system, distributed utilization measurement and load-balancing, Route 53 front-end development.

Amazon.com, Inc, Seattle, USA

Software Development Engineer Intern (full-time)

September 2008 – February 2009

Member of the CloudFront (Content Delivery Network) team during launch.

Developed tools and modeling techniques to determine the load and capacity of CloudFront.

Aided design of a latency-driven requesting routing system.

Vrije Universiteit, Amsterdam, Netherlands

Teaching Assistant

September 2005 – August 2008

Involved in teaching 10 different courses in programming languages (Java/C/C++/PHP/SQL), data structures, software development, web design, and information systems.

Proposed a new, compact style of teaching courses, now widely adopted in the CS department.

Self-employed, Netherlands

Web-developer

Spring 2004 – Fall 2007

Independently designed and developed Content Management Systems and other web applications in PHP and Java for over 20 websites.

PUBLICATIONS

Marco Slot, Mélanie Bouroche, Vinny Cahill
"Design of a Safety-critical Geocast API for Vehicular Coordination"
International Journal of Vehicle Information and Communication Systems (SI), to appear

Marco Slot, Vinny Cahill
"End-to-end Acknowledgement of Geocast in Vehicular Networks"
Vehicular Networking Conference, Amsterdam, November 2011

Marco Slot, and Vinny Cahill
"A Reliable Membership Service for Vehicular Safety Applications"
IEEE Intelligent Vehicles Symposium, Baden-Baden, July 2011

Dan Marinescu, Jan Čurn, Marco Slot, Mélanie Bouroche, and Vinny Cahill
"An Active Approach to Guaranteed Arrival Times Based on Traffic Shaping"
International IEEE Conference on Intelligent Transportation Systems, Madeira, September 2010

Marco Slot, Mélanie Bouroche, Vinny Cahill
"Membership Service Specifications for Safety-Critical Geocast in Vehicular Networks"
International Workshop on Communication Technologies for Vehicles, Newcastle, July 2010

Marco Slot, Paolo Costa, Guillaume Pierre
"Zero-Day Reconciliation of BitTorrent Users With Their ISPs"
International European Conference on Parallel and Distributed Computing, Delft, August 2009

REFERENCES

David Richardson

`drr@amazon.com`
General Manager at Amazon.com, Professional

Ben Redman

`bredman@amazon.com`
Software Development Manager at Amazon.com, Professional

Vinny Cahill

`vinny.cahill@scss.tcd.ie`
Professor at Trinity College Dublin, Academic

Guillaume Pierre

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Associate Professor at Vrije Universiteit Amsterdam, Academic