

Alain TCHANA - Associate Professor

1 Higher education and Experience

2013-today Associate Professor at Institut National Polytechnique (INP) de Toulouse. SEPIA team, IRIT Laboratory, France.

2012 PostDoct at INRIA Grenoble, France.

2011 Ph.D. at INP Toulouse. IRIT laboratory, France.

2007 Master in Network and Multimedia Software (graduated with honors). University of Yaounde I, Cameroon.

2005 Bachelor of art degree in Computer Science (graduated with honors). University of Yaounde I, Cameroon.

2002 Scientific A Level (graduated with honors), Cameroon.

(since 2015), Boris Teabe (since 2014).

- Engineers, among others: Korantin Auguste (Google Zurich), Maxime Arthaud (NASA Ames Research Center).

2.4 Current international collaborations (4)

- ETH Zurich: with Timothy Roscoe, Professor.
- EPFL: with Willy Zwaenepoel, Professor.
- Virginia Tech: with Antonio Barbalace, Research Assistant Professor.
- The Georges Washington University: with Timothy Wood, Assistant Professor.

2 Research activities

2.1 Patent

French patent FR1651891: Optimal memory management in a datacenter.

2.2 Projects (5)

- KelCloud (technology transfer project, Since 2015): Principal investigator.
- BioDataCloud (Since 2013): Co-leader for INP Toulouse.
- OpenCloudWare (FSN project, 2011-2014): Technical leader for LIG/UJF laboratory, Grenoble.
- CtrlGreen (ANR project, 2011-2014): Technical leader for LIG/UJF laboratory, Grenoble.
- SelfXL (projet ANR, 2008-2011): Technical leader for INPT, Toulouse.

2.3 Student supervisors

- Current Ph.D. students (4): Mathieu Bacou (since 2016), Gregoire Todeschi (since 2016), Vlad Nitu

2.5 Invitations

Intel Santa Clara USA(2015), The Georges Washington University USA (2015), Ecole National Supérieure Polytechnique de Yaounde Cameroon (2013, 2014, 2015), Keynote speaker at "Les Universités de l'Africaine et la diaspora" Paris 2015.

2.6 Open source software (3)

- *RoboConf*: A Solution for Elastic Deployments (<http://roboconf.net/fr/>). Contributor.
- *CLIF*: Scalable load injection framework (<http://clif.ow2.org/>). Contributor.
- *JORAM*: Java (TM) Open Reliable Asynchronous Messaging (<http://joram.ow2.org/>). Contributor.

2.7 Publications

For the ranking of venues, I have used the 2014 Australian Ranking (<http://portal.core.edu.au/conf-ranks/>) which ranks conferences and journals with A*, A, B and C. I only focus on conferences and journals which are ranked.

	Rank A	Rank B	Rank C
Ranked Publications	13	8	3

International Journals (6 ranked, 3 not ranked)

- [1] Alain Tchana, Noel De Palma, Ibrahim Safieddine, Daniel Hagimont. Software consolidation as an efficient energy and cost saving solution. Future Generation Comp. Syst. 2016. **Rank A.**
- [2] Boris Teabe, Alain Tchana, and Daniel Hagimont. Enforcing CPU allocation in a heterogeneous IaaS. Future Generation Comp. Syst. 2015. **Rank A.**
- [3] Alain Tchana, Noel De Palma, Bruno Dillenseger, and Xavier Etchevers. A Self-Scalable Load Injection Service. Software Practice Experiments 2015. **Rank A.**
- [4] Gueye Mak kare Soguy, De Palma Noel, Rutten Eric, Alain Tchana, and Nicolas Berthier. Coordinating self-sizing and self-repair Managers for Multi-tier Systems. Future Generation Comp. Syst. 2014. **Rank A.**
- [5] Aeiman Gadafi, Alain Tchana, Daniel Hagimont, Laurent Broto, Remi Sharrock, and N. De Palma. Energy-QoS Tradeoffs in J2EE Hosting Centers. International Journal of Autonomic computing, 2014. **Rank C.**
- [6] Alain Tchana, Giang Son Tran, Laurent Broto, N. De Palma, and Daniel Hagimont. Two levels autonomic resource management in virtualized IaaS. Future Generation Comp. Syst. 2013. **Rank A.**

International conferences (18 ranked, 8 not ranked)

- [7] Alain Tchana, Bao Bui, Boris Teabe, Vlad Nitu, Alain Tchana, and Daniel Hagimont. Mitigating performance unpredictability in the IaaS using the Kyoto principle. Middleware 2016. **Rank A.**
- [8] Boris Teabe, Alain Tchana, and Daniel Hagimont. Application-specific quantum for multi-core platform scheduler. EuroSys 2016. **Rank A.**
- [9] Boris Teabe, Alain Tchana, and Daniel Hagimont. Billing system CPU time on individual VM. CCGrid 2016. **Rank A.**
- [10] Boris Teabe, Alain Tchana, and Daniel Hagimont. Mitigating Performance Unpredictability in Heterogeneous Clouds. SCC 2016. **Rank A.**
- [11] Boris Teabe, Alain Tchana, and Daniel Hagimont. Billing the CPU Time Used by System Components on Behalf of VMs. SCC 2016. **Rank A.**
- [12] Giang Son Tran, Alain Tchana, and Daniel Hagimont, Noel De Palma. Cooperative Resource Management in a IaaS. AINA 2015. **Rank B.**

- [13] Alain Tchana, Noel de Palma, Ibrahim Safieddine, and Daniel Hagimont. Software consolidation as an efficient energy and cost saving solution for a SaaS/PaaS cloud model in a IaaS. Euro-Par 2015. **Rank A.**

- [14] Giang Tran, Alain Tchana, Brice Ekane, Boris Teabe, and Daniel Hagimont. VMcSim: A Detailed Manycore Simulator for Virtualized Systems. CLOUD 2015. **Rank B.**

- [15] Linh Manh Pham, Alain Tchana, Didier Donsez, Noel De Palma, Vincent Zurczak. and Pierre-Yves Gibello. Roboconf: a Hybrid Cloud Orchestrator to Deploy Complex Applications. CLOUD 2015. **Rank B.**

- [16] Giang Tran, Alain Tchana, Daniel Hagimont, and Noel De Palma. Cooperative Resource Management in a IaaS. AINA 2015. **Rank B.**

- [17] Ahmed El Rheddane, Noel de Palma, Alain Tchana, and Daniel Hagimont. Elastic Message Queues. CLOUD 2014. **Rank B.**

- [18] Alain Tchana, Noel De Palma, Xavier Etchevers, and Daniel Hagimont. Configuration challenges when migrating applications to a cloud: the JEE use case. PDPTA 2013. **Rank B.**

- [19] Alain Tchana, Bruno Dillenseger, Noel De Palma, Xavier Etchevers. Jean-Marc Vincent, Nabila Salmi, and Ahmed Harbaoui, Self-scalable Benchmarking as a Service with Automatic Saturation Detection. Middleware 2013. **Rank A.**

- [20] Daniel Hagimont, Christine Mayap, Laurent Broto, Alain Tchana, and Noel De Palma. DVFS aware CPU credit enforcement in a virtualized. Middleware 2013. **Rank A.**

- [21] Ahmed El Rheddane, Noel de Palma, Fabienne Boyer, Frdric Dumont, Jean-Marc Menaud, and Alain Tchana. Dynamic Scalability of a Consolidation Service. CLOUD 2013. **Rank B.**

- [22] Alain Tchana, Noel Depalma, Ahmed El Rheddane, Bruno Dillenseger, and Xavier Etchevers. A Scalable Benchmark as a Service Platform. DAIS 2013. **Rank B.**

- [23] Soguy Mak Kare Gueye, Eric Rutten, and Alain Tchana. Discrete control for the coordination of administration loops. UCC 2012. **Rank C.**

- [24] Alain Tchana, Suzy Temate, Laurent Broto, Daniel Hagimont. Autonomic resource allocation in a J2EE cluster. UCC 2010. **Rank C.**

International workshops (3 not ranked)

French conference articles (7 not ranked)