Rémy Cazabet

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Education

2009–2013	**Ph.D. Degree**, *IRIT Lab - Toulouse University*, France.
	Detection of temporal communities in strongly evolving networks. Supervisors: Frederic Amblard & Chihab Hanachi
2007–2009	**M.Sc. Degree**, *Toulouse University*, France, *Ranked 2^{nd}(Bien)*.
	Interaction, Cooperation and Complex Systems
2003–2007	**B.Sc. Degree (Licence)**, *Toulouse University*, France, *Ranked 2^{nd}(Tres Bien)*.
	Computer Science

Research Experience & Collaborations

2013-2014	**Postdoctoral Position**, *NII*, Tokyo, Japan.
	Analysis of cooperation and users roles in Online Social Networks. Hideaki Takeda research group
May 2012	**Visit**, *BECS*, Aalto University, Finland.
	(3 Weeks) Short visit and collaboration with Santo Fortunato at Aalto University
Summer 2010	**Research Internship**, *NII*, Tokyo, Japan.
	(3 Months) Dynamic network analysis of a large Japanese Web 2.0 Social Network (Nico Nico Douga). Supervisor : Hideaki Takeda
2009	**Research Internship**, *IRIT*, Toulouse, France.
	(5 months) Enhance cooperation inside an organization by allowing simulated social agents to modify its structure

Teaching Experience (286h)

2011	Concepts of advanced programming (Lectures & Practicals) - 52 h
2011-2012	Computer tools for Management - International Management Students (Practicals **in English**) - 24 h
2009-2010	Concepts of advanced programming (Practicals) - 30 h
2009-2010 and 2012	Advance use of computers for non-computer science students (Practicals) - 180 h

Research Interests

Complex Networks, Complex Systems, Evolving networks, Community detection, Online Social Networks, Data Mining, Multi-Agent Systems

Language

French	**Native**	
English	**Fluent**	***TOEIC: 945/990***. *Experience of work in English Speaking Environment*
Japanese	**Beginner**	

Tools & Softwares Developed And Freely Available

iLCD A dynamic community detection algorithm
`http://cazabetremy.fr/Cazabet_remy/iLCD.html`

Friend Automatic detection of communities in Facebook's users' friends
Circles `http://cazabetremy.fr/Cazabet_remy/Facebook_App.html`

Prizes & Grants

2010 Best Paper Award, SIN Symposium of the 2010 IEEE International Conference on Social Computing

2009 French Ministry of Research Grant for Ph.D. funding. (3 Years)

Students' Supervision

In-Lab Internships

2012 Verstaevel Nicolas (M.Sc): Detection of temporally coherent structures in aggregated networks by temporal weighting

2012 Fouquet Diane (M.Sc): Simulation of social behaviors in an Izard?s population to understand its evolution

2011 Perles Alexandre (Maitrise): Visualization of communities of friends on Facebook (Javascript - Java)

Students' Programming Projects

2010 5 Student team(MSc): Conception of a tool for the dynamic visualization of communities in an evolving network (Python-Java)

2010 3 Student team(MSc): Conception of a tool for the static visualization of dynamic communities and their evolution (Javascript - Java)

2010 4 Student team(BSc): Conception of a tool to apply community detection on Facebook's users profiles (Java)

Research Activity

Invited Talks

-January 2013 - Invited Speaker, EGC Conference, Large Graph Analysis Workshop. Topic: Dynamic Communities : A State Of The Art

-November 2012 - Invited by Prof. Vincent Blondel for a weekly seminar at the University of Louvain la neuve (Belgium)

-2011 - Two talks on community detection in interdisciplinary meetings (Toulouse, France)

Program committee member

-SocialComNet 2012 - International Workshop on Social Computing, Network, and Services

Reviewed Papers For:

-PLOS ONE (2013)

-SNAM - Social Network Analysis and Mining (2012)

-TPDS - Transactions on Parallel and Distributed Systems(2012)

-WIAS - Web Intelligence and Agent Systems, An International Journal (2011)

-ESSA 2011 - The Seventh Conference Of The European Social Simulation Association

-SocialComNet 2011 International Workshop on Social Computing, Network, and Services

-MARAMI 2011 - Models and Networks Analysis: Mathematical and Computer Science Approaches (French Workshop)

Publications

[1] Rémy Cazabet and Frédéric Amblard. Different approaches for temporal community detection. In *Encyclopedia of Social Network Analysis and Mining.* Springer, 2014. **To be published**.

[2] R. Cazabet, N. Pervin, F. Toriumi, and H. Takeda. Information diffusion on twitter: everyone has its chance, but all chances are not equal. In *Proceedings of the 9th International Conference on Signal Image Technology & Internet Based Systems.* IEEE, 2013.

[3] Rémy Cazabet. *Détection de communautés dynamiques dans des réseaux temporels.* PhD thesis, Université Paul Sabatier-Toulouse III, 2013.

[4] R. Cazabet, H. Takeda, M. Hamasaki, and F. Amblard. Using dynamic community detection to identify trends in user-generated content. *Social Network Analysis and Mining*, 2:361–371, 2012.

[5] R. Cazabet, M. Leguistin, and F. Amblard. Automated community detection on social networks: useful? efficient? asking the users. In *Proceedings of the 4th International Workshop on Web Intelligence & Communities.* ACM, 2012.

[6] R. Cazabet and F. Amblard. Simulate to detect: a multi-agent system for community detection. In *Web Intelligence and Intelligent Agent Technology (WI-IAT), 2011 IEEE/WIC/ACM International Conference on*, volume 2, pages 402–408. IEEE, 2011.

[7] R. Cazabet, F. Amblard, and C. Hanachi. Detection of overlapping communities in dynamical social networks. In *Social Computing (SocialCom), 2010 IEEE Second International Conference on*, pages 309–314. IEEE, 2010. **Best Paper Award**.

[8] E. Navarro and R. Cazabet. Community detection: A comparative analysis on real-life networks. *Interaction, Intelligence, Information, an International Journal*, 2010.

[9] R. Cazabet. Extension de la rationalité d'agents collaboratifs. Master's thesis, Toulouse University, 2009.