Résumé

Hoang Gia NGUYEN

Date of Birth: 22/09/1990 Address: 221 rue Championnet 75018, Paris, France (a) +33 7 68 64 62 62 ⋈ hoanggia.nguyen@lipn.univ-paris13.fr lipn.univ-paris13.fr/ hoanggia.nguyen Citizenship: Vietnamese



Education

²⁰¹⁵ **PhD of Software Engineering**, *LIPN Laboratory*, Paris 13 University, Villetaneuse,



Master of Software Engineering, Bordeaux University, French Universities Program - Vietnam National University, Ho Chi Minh City, Vietnam.



Bachelor of Software Engineering, Hoa Sen University, Ho Chi Minh City, Vietnam.



Gifted student of mathematics, physics and chemistry, Nguyen Chi Thanh High School, Ho Chi Minh City, Vietnam.

PhD thesis

Title Efficient Parametric Verification of Parametric Timed Automata

Supervisors Assoc. Prof. Étienne ANDRÉ and Prof. Laure PETRUCCI

Achievements

o 2014: 1st class student in 2nd year of master (M2) with GPA: 15.6. Thesis: Efficient Parametric Verification of Real-Time Systems - Nominated for best thesis.

• 2013: 2nd class student 1st year of master (M1) with GPA: 14.4.

Publications

- o Étienne André, Hoang Gia Nguyen and Laure Petrucci. Distributed non-**Zenoness parametric model checking (journal)**. Will be submitted soon.
- Hoang Gia Nguyen, Laure Petrucci, and Jaco van de Pol. Layered and Collecting NDFS with Subsumption for Parametric Timed Automata. 23nd International Conference on Engineering of Complex Computer Systems, IEEE CPS ICECCS 2018.
- o Étienne André, Hoang Gia Nguyen and Laure Petrucci. Efficient parameter synthesis using optimized state exploration strategies. 22nd International Conference on Engineering of Complex Computer Systems, IEEE CPS ICECCS 2017.

- Étienne André, Hoang Gia Nguyen, Laure Petrucci and Sun Jun. Parametric model checking timed automata under non-Zenoness assumption. 9th NASA Formal Methods Symposium NFM 2017.
- Étienne André, Giuseppe Lipari, Hoang Gia Nguyen and Youcheng Sun. Reachability Preservation Based Parameter Synthesis for Timed Automata. 7th NASA Formal Methods Symposium NFM 2015.
- Étienne André, Camille Coti, Hoang Gia Nguyen, Enhanced Distributed Behavioral Cartography of Parametric Timed Automata, 17th International Conference on Formal Engineering Methods ICFEM 2015.

Software Development

 IMITATOR - Parameter Synthesis for Real-Time Systems https://www.imitator.fr

Selected Talks

- Efficient Parameter Synthesis Using Optimized State Exploration Strategies, 22nd International Conference on Engineering of Complex Computer Systems
 ICECCS 2017, Fukuoka, Japan.
- Parametric Model Checking Timed Automata Under non-Zenoness Assumption, 9th NASA Formal Methods Symposium NFM 2017, California, USA.
- Enhanced Distributed Behavioral Cartography of Parametric Timed Automata, SynCoP 2015, April 2015, London, UK.

Skills

Formal Model Checking, Theorem Proving, Parametric Timed Automata, Temporal Logic, **Methods** Petri Nets, Event-B.

Model Altarica-Studio, Rodin IDE, IMITATOR, SPIN, PAT, Upaal. **Checker**

Parallel Pro- MPI, OpenMP, OcamI/MPI. gramming

Languages C, C++, C#, Java, Ocaml, python, T-SQL, PL/SQL, Prolog, HTML, XML, JavaScript/AJAX, CSS, batch, shell.

Databases Oracle Database, MS SQL, ODBMS, MySQL.

Tools Microsoft Visual Studio, Eclipse IDE, NetBean IDE, Borland C++, Code::Block, SVN, Git, Maven.

OOAD/OOP Object Oriented Analysis (OOA), Object Oriented Design (OOD), Object Oriented & Tools Programming (OOP), Unified Modeling Language (UML), IBM Rational Rose, Sparx, Visual Paradigm, Enterprise Architect, ArgoUML.

Framework .NET, BACKBONE. **& Library**

Servers Apache Tomcat, Jetty, Glassfish, IIS.

Web Service Restful, SOAP Web services.

Other skills Design Pattern, LaTex, Word, Excel, Power Point, Viso.

Experience

Teaching



Tutor, IUT-Paris 13 University.

Courses: Application for Network and Telecommunication, Database Foundation, Networking Foundation.

Vocational



Intern, LIPN Laboratory - Paris 13 University, Paris - France.



Member, *SAVE* - Laboratory of Systems Analysis and VErification, Ho Chi Minh City - Vietnam.



E-Commerce System Developer and Administrator, *Hoang Cuong Electronic*, Ho Chi Minh City - Vietnam.

References

LIPN Laboratory - Paris 13 University

Étienne ANDRÉ

Associate Professor, LIPN Laboratory, Villetaneuse - France

☑ Etienne.Andre@univ-paris13.fr

Laure PETRUCCI

Professor, Director of LIPN Laboratory, Villetaneuse - France

☑ Laure.Petrucci@lipn.univ-paris13.fr

LaBRI Laboratory - Bordeaux University

Anne DICKY

Associate Professor, LaBRI Laboratory, Bordeaux - France

☑ Anne.Dicky@labri.fr

SAVE Laboratory - University of Technology

Thanh Tho QUAN

Associate Professor, Head of Department of Software Engineering, University of Technology, Ho Chi Minh - Vietnam

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Languages

Vietnamese Native

Mother Tongue

English Daily practice

All work performed in English

French Intermediate

Learning since 2015

Interests

Research Model Checking and Verification, Distributed Computing, Artificial Intelligence, Big Data and Data Mining.

Leisure Exploring new Technologies, Reading Books, Photography, Swimming, Hiking, Watching Movies.